

Appendix 5.7-A

SPAW Model Results

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SPAW Model Results

1.0 SPAW Model Results

1.1 Overview

This appendix describes the modeling that was used in the design of the land application system and associated settling ponds. Bleed water from the process lixiviant circuit will be extracted following uranium removal in the ion-exchange (IX) columns. Bleed water will then flow through secondary IX columns to further remove uranium and other metals. This water will be discharged to lined settling ponds, where radium will be precipitated using barium sulfate. Water from these ponds will then be pumped to center pivot sprinklers and used to irrigate alfalfa or other suitable crops from March 29 to October 31 during each year of operation. Water from the ponds will be sampled before it is pumped to the sprinklers to ensure that it meets the applicable discharge standards for all constituents.

It is anticipated that several potential crops such as alfalfa, corn, sorghum and several species of salt tolerant wheatgrass could be irrigated. During the irrigation season, water application rates will be determined during operation to optimize both evaporation and crop production.

The design of the land application system was developed based on modeling using the SPAW model, which is described in the following sections. Two land application areas, one at the Dewey site and one at the Burdock site will be used. The total irrigated area at any given time at the Dewey site would be 315 acres, consisting of four 50-acre pivots, four 25-acre pivots, plus one 15-acre pivot. In addition, there would be one 50-acre pivot and one 15-acre pivot on standby (total pivots at Dewey is five 50-acre pivots, four 25-acre pivots, and two 15-acre pivots). Pumping at Dewey would occur for 24 hours every day from March 29 to May 10 at a rate of 297 gallons per minute (gpm); from May 11 to September 24 at a rate of 653 gallons per minute; and from September 25 to October 31 at a rate of 297 gallons per minute.

The total irrigated area at any given time at the Burdock site would also be 315 acres (six 50-acre pivots plus one 15-acre pivot). In addition, there would be two 25-acre pivots and one 15-acre pivot on standby. The total pivots at Burdock would be six 50-acre pivots, two 25-acre pivots, and two 15-acre pivots. Pumping at Burdock would also occur for 24 hours on every day from

March 29 to May 10 at 297 gallons per minute; from May 11 to September 24 at a rate of 653 gallons per minute; and from September 25 to October 31 at a rate of 297 gallons per minute.

Five single-lined impoundments (ponds) will be constructed at the Dewey site for the temporary storage of the irrigation water. Each pond will be 465 feet x 465 x 30 feet deep including 3 feet of freeboard, with an operating capacity of 61.8 acre-feet. Four of the ponds will be operational at any given time, with the remaining pond serving as a backup. In addition to the storage ponds, a double-lined radium settling pond with leak detection and a single-lined outlet pond will also be constructed at Dewey. The radium settling pond will be 880 feet x 200 feet x 22.5 feet deep, including 3 feet of freeboard, and will have an operational storage of 39.4 acre-ft. The outlet pond will be 280 feet x 162 feet x 14 feet deep including 3 feet of freeboard, and will have an operational storage of 4.9 acre-ft.

Four single-lined impoundments (ponds) will be constructed at the Burdock site for the temporary storage of the irrigation water. Each pond will be 465 feet x 465 feet x 30 feet deep including 3 feet of freeboard, with an operating capacity of 61.8 acre-feet. In addition to the storage ponds, double-lined radium settling, spare and central processing plant (CPP) ponds with leak detection, and a single-lined outlet pond will also be constructed at Burdock. The radium settling and spare ponds will be 880 feet x 200 feet x 25.5 feet deep, including 3 feet of freeboard, and will have an operational storage of 39.4 acre-ft. The CPP pond will be 362 feet x 362 feet x 25 feet including 3 feet of freeboard, and will have an operational storage capacity of 36.2 acre-feet. The outlet pond will be 280 feet x 162 feet x 14 feet deep including 3 feet of freeboard, and will have an operational storage of 4.9 acre-ft.

1.2 SPAW Model Description

The SPAW (Soil-Plant-Air-Water) Model was developed by the U.S. Department of Agriculture (Saxton and Willey, 2006) to simulate the daily hydrologic water budgets of agricultural landscapes by two connected routines, one for farm fields and one for impoundments such as irrigation ponds. The field hydrology simulation is represented by: 1) daily climatic descriptions of precipitation, temperature, and evaporation, 2) a soil profile of interacting layers each with unique water holding characteristics, and 3) annual crop growth with management options for rotations, irrigation, and fertilization. The model output for the field hydrology routine includes a daily vertical, one-dimensional water budget depth for all major hydrologic processes such as runoff, infiltration, evapotranspiration, soil water profiles, and percolation.

Water volumes for each component of the water balance are estimated by multiplying the water budget depth times the associated field area.

Pond hydrology simulations provide water budgets by multiple input and depletion processes for impoundments whose water source is runoff from agricultural fields and/or water produced by wells or other sources. Model outputs for the pond hydrology routine include daily values of depth, volume, precipitation, evaporation, and change in storage for the period of simulation. The version of the SPAW model used was Version 6.02.75. The model has been extensively tested by the developers using research data and real-world applications.

1.2.1 Model Input Parameters

1.2.1.1 Meteorological Parameters

The local climate at the project site is continental, with hot summers, cold winters, and an average annual precipitation of 16.4 inches. The wettest months are from April to September. May and June are the months of highest average precipitation, with occasional thunderstorms that can be severe. Typical daytime temperatures range from 35 degrees Fahrenheit (°F) in January to 85 °F in July, with nighttime temperatures dropping by approximately 15 to 30 °F.

Because of limited on-site climatic data, twenty-eight years of daily precipitation and temperature values (from 1980 to 2007) from the nearest available meteorological station at Edgemont, South Dakota were downloaded from the National Climatic Data Center and used as input data for the SPAW Model. The Edgemont station is approximately 13 miles southeast of the site at an elevation of 3460 feet above mean sea level (amsl). The project plant site is at 3720 feet amsl. Table 1.2-1 shows the average monthly air temperature data at the Edgemont station for the 28-year period of record.

**Table 1.2-1: Average Monthly and Annual Air Temperature
at Edgemont, SD Station (°F)**

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
22.6	26.8	36.6	46.7	56.9	66.4	74.3	72.5	61.3	47.8	33.0	22.6	47.3

1.2.1.1.1 Precipitation

Daily precipitation values for the 28-year period of record from the Edgemont station were used as input data for the SPAW Model. Where daily data were absent in the record, the daily average for that month from the 28-yr record was used. No adjustments were made to the

precipitation values for the 260-foot elevation difference between the Edgemont station and the project site. Table 1.2-2 shows the average monthly precipitation at the Edgemont station for the 28-yr period of record.

Table 1.2-2: Average Monthly and Annual Precipitation at Edgemont, SD Station (inches)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0.33	0.50	1.09	1.87	2.48	2.60	2.17	1.59	1.38	1.31	0.69	0.43	16.44

1.2.1.1.2 Potential Evapotranspiration

The SPAW model requires daily potential evapotranspiration (PET) data. Lake evaporation is a close estimate of PET, and is similar to PET values estimated using the Penman method. The mean annual lake evaporation (PET equivalent) at the site was determined to be 44 inches using the Evaporation Atlas for the Contiguous 48 United States (Farnsworth and Thompson, 1982). The monthly PET was calculated by applying the values for the monthly distribution of evaporation for the north central United States that are contained in the SPAW model. The daily PET for each month was then calculated by dividing the monthly PET by the number of days in the month. Table 1.2-3 shows the estimated average monthly and annual potential evapotranspiration at the site that was calculated using this method.

Table 1.2-3: Average Monthly and Annual Potential Evapotranspiration at Project Site (inches)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0.92	1.23	1.98	3.30	4.40	5.76	7.08	6.95	5.50	3.74	2.02	1.10	44.0

1.2.1.2 Material Properties

To characterize the soils at the site, eleven test pits were excavated on July 11 and 12, 2008. Samples were collected at various depths and analyzed for particle size distribution, dry bulk density, permeability, and other geotechnical parameters. Test pits 1 through 5 were excavated at the Dewey land application area, and test pits 6 through 11 were excavated at the Burdock land application area. Table 1.2-4 shows the USDA soil texture and dry bulk density for the test pit samples. These are the parameters that are used as input to the SPAW model.

Natural Resources Conservation Service (NRCS) soil survey maps for the land application area were downloaded from the NRCS Web Soil Survey. The particle size distributions for the

NRCS soil mapping units were compared to the laboratory particle size distributions for the test pit soil samples. This comparison showed that the laboratory results for the test pit samples generally fell within the range of particle size distributions for the NRCS survey soil mapping units.

Table 1.2-4: Summary of Test Pit Soil Properties

USDA Soil Texture Class, Dry Bulk Density and Permeability

Sample No.	Depth	Gravel	Sand	Silt	Clay	Dry Bulk Density	Permeability (cm/sec)
Units:	(ft)	% by wt	% by wt	% by wt	% by wt	(lb/ft ³)	
TP01-1	1	0.20	26.20	38.00	35.60	N/A	
TP01-3	3	0.10	25.70	27.20	47.00	101.20	5.10E-05
TP01-7	7	0.90	8.10	57.20	33.80	86.30	
TP02-1	1	0.00	19.90	40.70	39.40	94.50	
TP02-4	4	0.00	16.70	34.60	48.70	101.50	
TP02-7	7	0.20	26.70	34.80	38.30	92.50	
TP03-1	1	0.00	24.30	24.80	50.90	90.00	8.30E-05
TP03-7	7	0.00	2.40	25.10	72.50	104.60	
TP03-11	11	60.00	25.00	8.90	6.10		
TP04-1	1	2.20	47.80	18.20	31.80	98.10	
TP04-7	7	1.30	27.50	28.00	43.20	113.30	
TP05-1	1	1.50	24.00	31.60	42.90	97.00	
TP05-4	4	2.00	30.00	23.40	44.60	94.80	3.20E-05
TP05-8	8	0.80	22.10	57.60	19.50	106.30	
TP06-1	1	0.30	17.90	30.80	51.00	N/A	
TP06-7	7	0.00	42.00	31.80	26.20	N/A	
TP06-10	10	0.00	40.00	31.20	28.80	N/A	
TP07-1	1	0.60	17.40	27.30	54.70	105.30	
TP07-5	5	0.1	22.1	25.9	51.9	103.90	
TP07-10	10	0.3	19.7	6.9	73.1	105.40	
TP08-2	2	0.1	11.9	35.7	52.3	95.20	5.70E-04
TP08-6	6	0.4	56.6	25.4	17.6	103.40	
TP09-1	1	0.3	15.2	39	45.5	94.90	
TP09-4	4	0.1	35.9	37.8	26.2	109.60	5.50E-06
TP10-1	1	1.8	21.1	34.8	42.3	99.10	
TP10-7	7	0.4	11.1	30.3	58.2	105.80	1.60E-07

Notes: N/A = Results for these samples were not available.

1.2.2 Modeling Approach

The general assumptions for the SPAW model include the following:

1. The model is a one-dimensional vertical model.
2. The model assumes that the modeled area is spatially uniform in soil, crop and climate characteristics.
3. Model inputs and outputs are based on daily values.
4. The model does not does not include flow routing or channel descriptors.
5. Daily runoff is estimated as an equivalent depth over the simulation field by the USDA/SCS Curve Number method.
6. The field budget utilizes a one-dimensional vertical system beginning above the plant canopy and proceeding downward through the soil profile to a depth sufficient to represent the complete root penetration and subsurface hydrologic processes (lateral soil water flow is not simulated).

Specific assumptions related to this project are as follows:

1. Daily precipitation and temperature data used in the model are based on 28 years of record from the Edgemont, South Dakota station.
2. SPAW modeling was done for two land application and pond areas, the Dewey site and the Burdock site.
3. Soils data used in the modeling of the Dewey site was based on a composite of soils data from Test Pits 1, 2 and 5.
4. Soils data used in the modeling of the Burdock site was based on a composite of soils data from Test Pits 8, 9 and 10.
5. The 24/7 year-round inflow rate from process water and bleed water at each site is 310 gpm.
6. The irrigation season is from March 29 to October 31 each year (217 days).
7. Model runs were conducted assuming no crop (bare soil). This assumption ensures that the results will be conservative in terms of the resulting evapotranspiration and runoff, since it is difficult to model the response of alfalfa or other crops to the quality of the applied irrigation water and to the soil conditions present at the site.

8. The irrigation water will be applied at a rate that balances the total annual amount of process inflow water. The modeled application rate is 297 gpm from March 29 to May 10, 653 gpm from May 11 to September 24, and 297 gpm from September 25 to October 31.
9. Irrigation tailwater and rainfall runoff from the land application areas will be conveyed to collection areas at the edges of the land application areas and allowed to evaporate and seep into the soil.
10. The storage impoundments are designed to contain the one percent exceedance probability event (100-year event) plus 3 feet of freeboard.
11. All storage impoundments have side slopes of 3 to 1 and are 30 feet deep.

The objective of the SPAW modeling was to help design a land application system that: (1) maximizes evapotranspiration; (2) minimizes surface runoff; (3) minimizes percolation below the rooting zone; (4) minimizes the irrigated acreage required; and (5) minimizes the required volume of the storage ponds while maintaining a one percent probability that the design pond volume will be exceeded during the operating life of the facility.

SPAW modeling was performed at both the Dewey and Burdock sites. A composite of the soil properties at each site was created for use in the model using analytical data from three test pits from each site. Test pits 1, 2 and 5 were used for the Dewey site and test pits 8, 9 and 10 were used for the Burdock site. The composites were created by taking the averages of the gravel, sand and clay fractions and the dry bulk densities for each depth interval for the three test pits at each site.

The SPAW modeling assumed that the facility will operate on a year-round basis for 15 years. Twenty-eight years of daily precipitation, temperature and evaporation data from January 1, 1980 to December 31, 2007 were used to create 28 unique and equally likely simulations of the process water balance. Each simulation used 15 years of sequential climatic data corresponding to the 15 years of operation of the facility. The climatic data intervals used for each of the 28 simulations are shown in Table 1.2-5.

Field simulations using the SPAW model were run using each of the 28 climatic data intervals shown in Table 1.2-5. The results of these field simulations were used as the input to pond simulations for the same 28 climatic intervals. The result was a daily pond volume for each day of the year for each of the 28 15-year simulations.

The pond volume with a 1 percent exceedance probability during a 15-year operating period was estimated as follows. First, the average pond volume for each day during the 15-year operating period for the 28 simulations was calculated. Then, the pond volume for each day of the 15-year period with a 1 percent exceedance probability was calculated using the Gumbel Extreme Value distribution, which resulted in 5,475 possible values. The greatest of these 5,475 values was then selected as the maximum possible volume with a 1 percent exceedance probability during a 15-year period.

Table 1.2-5: Sequential Water Balance Simulations

Simulation No.	15-Year Climatic Data Interval
1	01/01/1980 to 12/31/1994
2	01/01/1981 to 12/31/1995
3	01/01/1982 to 12/31/1996
4	01/01/1983 to 12/31/1997
5	01/01/1984 to 12/31/1998
6	01/01/1985 to 12/31/1999
7	01/01/1986 to 12/31/2000
8	01/01/1987 to 12/31/2001
9	01/01/1988 to 12/31/2002
10	01/01/1989 to 12/31/2003
11	01/01/1990 to 12/31/2004
12	01/01/1991 to 12/31/2005
13	01/01/1992 to 12/31/2006
14	01/01/1993 to 12/31/2007
15	01/01/1994 to 12/31/1980
16	01/01/1995 to 12/31/1981
17	01/01/1996 to 12/31/1982
18	01/01/1997 to 12/31/1983
19	01/01/1998 to 12/31/1984
20	01/01/1999 to 12/31/1985
21	01/01/2000 to 12/31/1986
22	01/01/2001 to 12/31/1987
23	01/01/2002 to 12/31/1988
24	01/01/2003 to 12/31/1989
25	01/01/2004 to 12/31/1990
26	01/01/2005 to 12/31/1991
27	01/01/2006 to 12/31/1992
28	01/01/2007 to 12/31/1993

1.2.3 Model Results

Field Model Results

Based on the SPAW modeling, the irrigated area at the Dewey site would be 315 acres. Pumping at Dewey would occur for 24 hours every day from March 29 to May 10 at a rate of 297 gallons per minute (gpm); from May 11 to September 24 at a rate of 653 gpm; and from September 25 to October 31 at a rate of 297 gpm.

The irrigated area at the Burdock site would also be 315 acres. Pumping at Burdock would also occur for 24 hours on every day from March 29 to May 10 at a rate of 297 gpm; from May 11 to September 24 at a rate of 653 gpm; and from September 25 to October 31 at a rate of 297 gpm. The annual summaries of the SPAW field modeling results for the twenty-eight 15-year simulations at both the Dewey and Burdock sites are attached.

Pond Model Results

Based on the assumptions listed above (Section 1.2.2), the model results showed that the total irrigation storage pond volume having a 1-percent exceedance probability is 216 acre-feet at both the Dewey and Burdock sites. An additional 31 acre-feet of capacity was added to the ponds at each site, for a total pond capacity of 247 acre-feet. This additional capacity acts as contingency storage for days at the beginning of the irrigation season when weather conditions may limit pumping for land application. Four single-lined impoundments (ponds), each with dimensions of 465 feet x 465 x 30 feet deep and a capacity of 61.8 acre-feet, will be operational at any given time at both the Dewey and Burdock sites, providing a total capacity of 247.2 acre-feet at each site. This capacity includes the volume with a 1 percent exceedance probability, plus 3 feet of freeboard. A double-lined radium settling pond with leak detection will also be constructed at each site, with an operational storage of 39.2 acre-ft, which includes sufficient capacity for the settling of barium sulfate and radium, the total volume of which over the 15-year operating life is estimated to be 0.036 acre-feet. In addition, there will be a Central Processing Plant (CPP) pond at the Burdock site. The CPP pond will be 362 feet x 362 feet x 25 feet deep including 3 feet of freeboard, with a total capacity of 36.2 acre-feet.

The annual summaries of the SPAW pond modeling results for the twenty-eight 15-year simulations at the Burdock site are attached. The climatic conditions and pond inflow rates are the same for both sites, and therefore the SPAW pond modeling results are also the same.

Runoff Model Results

Runoff from irrigation return flows and from rainfall falling on the land application areas will be conveyed to collection areas at the edges of the land application areas and allowed to evaporate. The quantity of this runoff was calculated by the SPAW model and entered into a monthly water balance to determine the required volume of these collection areas. The following equation summarizes the monthly water balance:

$$S = RO + P - E - I$$

where:

S = storage required

RO = runoff from the 315-acre land application area due to irrigation and precipitation

P = precipitation falling directly on the runoff collection area

E = evaporation from the collection area

I = seepage from the collection area

The water balance was determined using a spreadsheet model that calculates the cumulative storage required at the end of each month during the 15-year operating life of the facility. Water balances for five potential 15-year operating periods were simulated for both the Dewey and Burdock sites, using five 15-year periods with the highest total annual precipitation amounts from the 28 years of available climatic data. The results showed that a 35-acre collection area at the Burdock site would have an average of 1.3 inches of standing water at month-end during each month of the 15-year operating life of the facility, and a maximum of 30.5 inches of standing water at month-end, which occurred during a single month over the 15 years. At the Dewey site, a 35-acre collection area would have an average of 0.13 inches of standing water at month-end during the 15-year operating life of the facility, and a maximum of 8.8 inches of standing water at month-end, which also occurred during a single month over 15 years. The difference in storage required at the two sites is due to the higher permeability of the soils at the Dewey site. The soil permeabilities used in the water balance were based on permeability values determined from laboratory testing of the soils from the on-site test pits.

1.3 References

- Farnsworth, R.K. and Thompson, E.S., 1982. “*Evaporation Atlas for the Contiguous 48 United States. NOAA Technical Report NWS 33*”, National Weather Service. Washington, DC.
- Masch, F.D., 1986, Hydrology, “*Hydraulic Engineering Circular No. 19, FHWA-IP-84-15*”, U.S. Department of Transportation, Federal Highway Administration.
- Saxton, K.E. and P.H. Willey, 2006, “*The SPAW Model for Agricultural Field and Pond Hydrologic Simulation*”, Chapter 17 in *Mathematical Modeling of Watershed Hydrology*, V.P. Singh and D. Frevert, Editors; CRC Press, pp 401-435.
- Saxton, K.E., 2006, “*SPAW (Soil-Plant-Air-Water) Field and Pond Hydrology Computer Model*”, Version 6.02.75. U.S.D.A. Agricultural Research Service.
- Withers, B. and S. Vipond, 1980, “*Irrigation: Design and Practice*”, Ithaca, NY: Cornell University Press, 306 p.

SPAW Model Results

Dewey Field

XD 80-94.aul



SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 80-94\XD 80-94.spw
File Creation Date : Jul 13, 2009 09:07:29
File Last Modified Date : Jul 13, 2009 09:07:30
Description : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 80-94
Simulation Start Date : Jan 01, 1980
Simulation End Date : Dec 31, 1994
Simulation Run Date : Jul 13, 2009 09:07
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 80-94
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 80-94\XD 80-94.fld (Jul 13, 200900:00)
Climate : Dewey Burdock 81-94 climatic data
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\80-94.cln (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evdp (Aug 23, 2008 00:00)
Precipitation : SD8094 - Jan 01, 1980 to Dec 31, 1994
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\80-94.txt (Sep 15, 2008 00:00)
Air Temperature : SD8094 - Jan 01, 1980 to Dec 31, 1994
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\80-94.txt (Sep 15, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Dewey TP1, TP2, TP5 Revised Soils Composite
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Soils\DRew 1-2-5.soil (Sep 16, 2008 00:00)

NUMBER OF SOIL LAYERS: 9

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 4.00 12.00 24.00 4.00 23.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	NET	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPRN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1980	44.04	27.07	15.07	0.00	12.01	16.33	19.07	4.21	19.18	0.10	0.00	4.02	0.00	0.00
1981	44.00	27.29	15.98	0.00	11.31	13.46	19.07	4.21	17.01	0.48	0.00	0.55	0.00	0.00
1982	44.00	31.32	19.47	0.00	11.85	21.88	19.07	8.47	20.63	0.29	0.00	0.87	0.00	0.00
1983	44.00	29.19	17.40	0.00	11.78	16.16	19.07	5.30	18.15	0.15	0.00	0.59	0.00	0.00
1984	44.04	31.36	19.32	0.00	12.04	16.89	19.07	4.49	19.43	0.16	0.00	-0.05	0.00	0.00
1985	44.00	28.09	16.47	0.00	11.63	11.75	19.07	2.59	16.60	0.01	0.00	0.12	0.00	0.00
1986	44.00	33.26	21.34	0.00	11.93	23.59	19.07	8.67	22.07	0.09	0.00	0.64	0.00	0.00
1987	44.00	29.80	17.92	0.00	11.87	12.36	19.07	2.37	17.18	-0.01	0.00	-0.72	0.00	0.00
1988	44.04	28.20	16.39	0.00	11.81	13.79	19.07	4.63	16.41	0.00	0.00	0.02	0.00	0.00
1989	44.00	29.51	17.66	0.00	11.85	15.58	19.07	4.75	18.06	0.01	0.00	0.38	0.00	0.00
1990	44.00	31.45	19.79	0.00	11.65	19.14	19.07	6.93	19.63	0.00	0.00	-0.16	0.00	0.00
1991	44.00	29.24	17.32	0.00	11.92	15.03	19.07	4.53	17.65	0.00	0.00	0.34	0.00	0.00
1992	44.04	29.28	17.64	0.00	11.63	14.08	19.07	4.34	17.18	-0.01	0.00	-0.45	0.00	0.00
1993	44.00	32.92	20.93	0.00	11.99	22.31	19.07	7.70	21.69	0.01	0.00	0.75	0.00	0.00
1994	44.00	29.31	17.39	0.00	11.92	12.01	19.07	2.20	16.96	-0.01	0.00	-0.43	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	NET	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPRN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	29.83	18.02	0.00	11.81	16.29	19.07	5.03	18.32	0.08	0.00	0.42	0.00	0.00



XD 81-95.ani

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 81-95\XD 81-95.spw
File Creation Date : Jul 16, 2009 14:38:41
File Last Modified Date : Jul 16, 2009 14:38:42
Description : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 81-95
Simulation Start Date : Jan 01, 1981
Simulation End Date : Dec 31, 1995
Simulation Run Date : Jul 16, 2009 14:38
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 81-95
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 81-95\XD 81-95.fld (Jul 17, 200900:00)
Climate : Dewey Burdock 81-95 climatic data
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\81-95.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD8195 - Jan 01, 1981 to Dec 31, 1995
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\81-95.txt (Sep 16, 2008 00:00)
Air Temperature : SD8195 - Jan 01, 1981 to Dec 31, 1995
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\81-95.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Dewey TP1, TP2, TP5 Revised Soils Composite
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Soils\DRew 1-2-5.soil (Sep 16, 2008 00:00)

NUMBER OF SOIL LAYERS: 9

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 4.00 12.00 24.00 4.00 23.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AET	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPRN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1981	44.00	24.88	13.56	0.00	11.31	13.46	19.07	4.20	17.02	-0.04	0.00	3.50	0.00	0.00
1982	44.00	31.28	19.44	0.00	11.85	21.88	19.07	7.71	21.39	0.60	0.00	1.35	0.00	0.00
1983	44.00	28.91	17.13	0.00	11.78	16.16	19.07	5.30	18.15	0.25	0.00	0.77	0.00	0.00
1984	44.04	31.16	19.12	0.00	12.04	16.89	19.07	4.49	19.43	0.23	0.00	0.08	0.00	0.00
1985	44.00	27.95	16.33	0.00	11.63	11.75	19.07	2.59	16.60	0.06	0.00	0.22	0.00	0.00
1986	44.00	33.16	21.23	0.00	11.93	23.59	19.07	8.56	22.17	0.16	0.00	0.78	0.00	0.00
1987	44.00	29.73	17.86	0.00	11.87	12.36	19.07	2.37	17.18	0.00	0.00	-0.67	0.00	0.00
1988	44.04	28.20	16.39	0.00	11.81	13.79	19.07	4.63	16.41	0.00	0.00	0.02	0.00	0.00
1989	44.00	29.51	17.66	0.00	11.85	15.58	19.07	4.75	18.06	0.01	0.00	0.38	0.00	0.00
1990	44.00	31.45	19.79	0.00	11.65	19.14	19.07	6.93	19.63	0.00	0.00	-0.16	0.00	0.00
1991	44.00	29.24	17.32	0.00	11.92	15.03	19.07	4.53	17.65	0.00	0.00	0.34	0.00	0.00
1992	44.04	29.28	17.64	0.00	11.63	14.08	19.07	4.34	17.18	-0.01	0.00	-0.45	0.00	0.00
1993	44.00	32.92	20.93	0.00	11.99	22.31	19.07	7.70	21.69	0.01	0.00	0.75	0.00	0.00
1994	44.00	29.31	17.39	0.00	11.92	12.01	19.07	2.20	16.96	-0.01	0.00	-0.43	0.00	0.00
1995	44.00	32.03	20.22	0.00	11.81	18.32	19.07	5.49	20.10	0.00	0.00	-0.13	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	AET	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPRN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	29.95	18.15	0.00	11.80	16.42	19.07	5.05	18.64	0.08	0.00	0.41	0.00	0.00



XD 82-96.ani

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 82-96\XD 82-96.spw
File Creation Date : Jul 16, 2009 14:40:12
File Last Modified Date : Jul 16, 2009 14:40:13
Description : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 82-96
Simulation Start Date : Jan 01, 1982
Simulation End Date : Dec 31, 1996
Simulation Run Date : Jul 16, 2009 14:40
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 82-96
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 82-96\XD 82-96.fld (Jul 17, 200900:00)
Climate : Dewey Burdock 82-96 climatic data
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\82-96.cla (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD8296 - Jan 01, 1982 to Dec 31, 1996
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\82-96.txt (Sep 16, 2008 00:00)
Air Temperature : SD8296 - Jan 01, 1982 to Dec 31, 1996
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\82-96.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Dewey TP1, TP2, TP5 Revised Soils Composite
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Soils\DRRev 1-2-5.soil (Sep 16, 2008 00:00)

NUMBER OF SOIL LAYERS: 9

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 4.00 12.00 24.00 4.00 23.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	NET	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLORED
	in	in	in	in	in	in	in	in	in	in	in	in		
1982	44.00	30.50	18.69	0.00	11.81	21.83	19.07	6.36	22.73	0.05	0.00	4.00	0.00	0.00
1983	44.00	28.39	16.61	0.00	11.78	16.16	19.07	5.25	18.20	0.51	0.00	1.09	0.00	0.00
1984	44.04	30.99	18.95	0.00	12.04	16.89	19.07	4.29	19.63	0.35	0.00	0.32	0.00	0.00
1985	44.00	27.82	16.19	0.00	11.63	11.75	19.07	2.57	16.62	0.11	0.00	0.32	0.00	0.00
1986	44.00	33.08	21.15	0.00	11.93	23.59	19.07	8.56	22.17	0.19	0.00	0.83	0.00	0.00
1987	44.00	29.61	17.74	0.00	11.87	12.36	19.07	2.37	17.18	0.04	0.00	-0.59	0.00	0.00
1988	44.04	28.14	16.33	0.00	11.81	13.79	19.07	4.63	16.41	0.02	0.00	0.06	0.00	0.00
1989	44.00	29.51	17.66	0.00	11.85	15.58	19.07	4.75	18.06	0.02	0.00	0.39	0.00	0.00
1990	44.00	31.45	19.79	0.00	11.65	19.14	19.07	6.93	19.63	0.00	0.00	-0.16	0.00	0.00
1991	44.00	29.24	17.32	0.00	11.92	15.03	19.07	4.53	17.65	0.00	0.00	0.34	0.00	0.00
1992	44.04	29.28	17.64	0.00	11.63	14.08	19.07	4.34	17.18	-0.01	0.00	-0.45	0.00	0.00
1993	44.00	32.92	20.93	0.00	11.99	22.31	19.07	7.70	21.69	0.01	0.00	0.75	0.00	0.00
1994	44.00	29.31	17.39	0.00	11.92	12.01	19.07	2.20	16.96	-0.01	0.00	-0.43	0.00	0.00
1995	44.00	32.03	20.22	0.00	11.81	18.32	19.07	5.49	20.10	0.00	0.00	-0.13	0.00	0.00
1996	44.04	31.28	19.54	0.00	11.74	17.60	19.07	4.90	20.02	0.00	0.00	0.48	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	NET	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLORED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	30.24	18.42	0.00	11.83	16.70	19.07	4.99	18.95	0.09	0.00	0.45	0.00	0.00

XD 83-97.a1

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 83-97\XD 83-97.spw
File Creation Date : Jul 16, 2009 14:41:29
File Last Modified Date : Jul 16, 2009 14:42:28
Description : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 83-97
Simulation Start Date : Jan 01, 1983
Simulation End Date : Dec 31, 1997
Simulation Run Date : Jul 16, 2009 14:42
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 83-97
Climate : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 83-97\XD 83-97.fld (Jul 17, 200900:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
Precipitation : SD6397 - Jan 01, 1983 to Dec 31, 1997
Air Temperature : SD6397 - Jan 01, 1983 to Dec 31, 1997
Management : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 83-97\XD 83-97.fld (Jul 17, 200900:00)
Crop (1) : Bare feedlot or fallow field
Soil : Dewey TPL, TP2, TP5 Revised Soils Composite

NUMBER OF SOIL LAYERS: 9

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 4.00 12.00 24.00 4.00 23.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	ACT	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1983	44.00	24.69	14.99	0.00	11.70	16.08	19.07	4.45	19.00	-0.05	0.00	4.06	0.00	0.00
1984	44.04	30.62	18.58	0.00	12.04	16.89	19.07	4.08	19.84	0.62	0.00	0.63	0.00	0.00
1985	44.00	27.41	15.78	0.00	11.63	17.75	19.07	2.57	16.82	0.24	0.00	0.60	0.00	0.00
1986	44.00	32.89	20.97	0.00	11.93	23.59	19.07	8.55	22.19	0.25	0.00	0.98	0.00	0.00
1987	44.00	29.55	17.68	0.00	11.87	12.36	19.07	2.26	17.29	0.10	0.00	-0.48	0.00	0.00
1988	44.04	27.82	16.01	0.00	11.81	13.79	19.07	4.95	16.09	0.03	0.00	0.05	0.00	0.00
1989	44.00	29.30	17.45	0.00	11.85	15.58	19.07	4.78	18.06	0.09	0.00	0.52	0.00	0.00
1990	44.00	31.43	19.77	0.00	11.65	19.14	19.07	6.89	19.67	0.01	0.00	-0.11	0.00	0.00
1991	44.00	29.24	17.32	0.00	11.92	15.03	19.07	4.53	17.65	0.00	0.00	0.34	0.00	0.00
1992	44.04	29.28	17.64	0.00	11.63	14.08	19.07	4.34	17.18	-0.01	0.00	-0.45	0.00	0.00
1993	44.00	32.92	20.93	0.00	11.99	22.31	19.07	7.70	21.59	0.01	0.00	0.75	0.00	0.00
1994	44.00	29.31	17.39	0.00	11.92	12.01	19.07	2.20	16.96	-0.01	0.00	-0.43	0.00	0.00
1995	44.00	32.03	20.22	0.00	11.81	18.32	19.07	4.49	20.10	0.00	0.00	-0.13	0.00	0.00
1996	44.04	31.28	19.54	0.00	11.74	17.60	19.07	4.90	20.02	0.00	0.00	0.48	0.00	0.00
1997	44.00	31.29	19.75	0.00	11.54	17.73	19.07	5.93	19.32	0.00	0.00	-0.43	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	ACT	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	30.08	18.28	0.00	11.80	16.42	19.07	4.91	18.78	0.09	0.00	0.42	0.00	0.00





XD 84-98.aul

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 84-98\XD 84-98.spw
File Creation Date : Jul 14, 2009 12:55:47
File Last Modified Date : Jul 14, 2009 14:18:32
Description : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 84-98
Simulation Start Date : Jan 01, 1984
Simulation End Date : Dec 31, 1998
Simulation Run Date : Jul 14, 2009 14:18
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 84-98
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 84-98\XD 84-98.fld (Jul 15, 2009 00:00)
Climate : Dewey Burdock 84-98 climatic data
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\84-98.clim (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD8498 - Jan 01, 1984 to Dec 31, 1998
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\84-98.txt (Sep 16, 2008 00:00)
Air Temperature : SD8498 - Jan 01, 1984 to Dec 31, 1998
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\84-98.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Dewey TP1, TP2, TP5 Revised Soils Composite
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Soils\DRRev 1-2-5.soil (Sep 16, 2008 00:00)

NUMBER OF SOIL LAYERS: 9

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 4.00 12.00 24.00 4.00 23.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AEI	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPCRN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1984	44.04	27.85	16.04	0.00	11.81	15.65	19.07	3.14	19.76	0.02	0.00	3.71	0.00	0.00
1985	44.00	26.78	15.15	0.00	11.63	11.75	19.07	2.57	16.62	0.51	0.00	0.96	0.00	0.00
1986	44.00	32.56	20.63	0.00	11.93	23.59	19.07	8.55	22.19	0.35	0.00	1.20	0.00	0.00
1987	44.00	29.24	17.37	0.00	11.87	12.36	19.07	2.37	17.18	0.16	0.00	-0.35	0.00	0.00
1988	44.04	27.79	15.99	0.00	11.81	13.79	19.07	4.63	16.41	0.14	0.00	0.29	0.00	0.00
1989	44.00	29.27	17.42	0.00	11.85	15.58	19.07	4.75	18.06	0.10	0.00	0.54	0.00	0.00
1990	44.00	31.42	19.77	0.00	11.65	19.14	19.07	6.89	19.67	0.01	0.00	-0.11	0.00	0.00
1991	44.00	29.24	17.32	0.00	11.92	15.03	19.07	4.53	17.65	0.00	0.00	0.34	0.00	0.00
1992	44.04	29.28	17.64	0.00	11.63	14.08	19.07	4.34	17.18	-0.01	0.00	-0.45	0.00	0.00
1993	44.00	32.92	20.93	0.00	11.99	22.31	19.07	7.70	21.69	0.01	0.00	0.75	0.00	0.00
1994	44.00	29.31	17.39	0.00	11.92	12.01	19.07	2.20	16.96	-0.01	0.00	-0.43	0.00	0.00
1995	44.00	32.03	20.22	0.00	11.81	18.32	19.07	5.49	20.10	0.00	0.00	-0.13	0.00	0.00
1996	44.04	31.28	19.54	0.00	11.74	17.60	19.07	4.90	20.02	0.00	0.00	0.48	0.00	0.00
1997	44.00	31.29	19.75	0.00	11.54	17.73	19.07	5.93	19.32	0.00	0.00	-0.43	0.00	0.00
1998	44.00	33.11	21.15	0.00	11.96	24.28	19.07	10.17	21.22	0.00	0.00	0.07	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	AEI	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPCRN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	30.23	18.43	0.00	11.90	16.88	19.07	5.21	18.94	0.08	0.00	0.42	0.00	0.00



XD 85-99.anl

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 85-99\XD 85-99.spm
File Creation Date : Jul 14, 2009 12:59:49
File Last Modified Date : Jul 14, 2009 14:17:28
Description : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 85-99
Simulation Start Date : Jan 01, 1985
Simulation End Date : Dec 31, 1999
Simulation Run Date : Jul 14, 2009 14:17
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 85-99
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 85-99\XD 85-99.fld (Jul 15, 200900:00)
Climate : Dewey Burdock 85-99 climatic data
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\85-99.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD8599 - Jan 01, 1985 to Dec 31, 1999
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\85-99.txt (Sep 16, 2008 00:00)
Air Temperature : SD8599 - Jan 01, 1985 to Dec 31, 1999
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\85-99.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Dewey TP1, TP2, TP5 Revised Soils Composite
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Soils\DRew 1-2-5.soil (Sep 16, 2008 00:00)

NUMBER OF SOIL LAYERS: 9

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 4.00 12.00 24.00 4.00 23.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	ACT	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPERC	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1985	44.00	24.76	13.13	0.00	11.63	11.75	19.07	2.57	16.62	-0.05	0.00	3.54	0.00	0.00
1986	44.00	31.84	19.91	0.00	11.93	23.59	19.07	8.51	22.22	0.61	0.00	1.70	0.00	0.00
1987	44.00	29.00	17.12	0.00	11.87	12.36	19.07	2.20	17.36	0.30	0.00	-0.07	0.00	0.00
1988	44.04	27.64	15.83	0.00	11.81	13.79	19.07	4.63	16.41	0.19	0.00	0.39	0.00	0.00
1989	44.00	29.09	17.24	0.00	12.85	15.58	19.07	4.75	18.06	0.16	0.00	0.66	0.00	0.00
1990	44.00	31.32	19.67	0.00	11.65	19.14	19.07	6.81	19.75	0.06	0.00	0.02	0.00	0.00
1991	44.00	29.23	17.31	0.00	11.92	15.03	19.07	4.53	17.65	0.00	0.00	0.34	0.00	0.00
1992	44.04	29.28	17.64	0.00	11.63	14.08	19.07	4.34	17.18	-0.01	0.00	-0.45	0.00	0.00
1993	44.00	32.92	20.93	0.00	11.99	22.31	19.07	7.70	21.69	0.61	0.00	0.75	0.00	0.00
1994	44.00	29.31	17.39	0.00	11.92	12.01	19.07	2.20	18.96	-0.01	0.00	-0.43	0.00	0.00
1995	44.00	32.03	20.22	0.00	11.81	18.32	19.07	5.49	20.10	0.00	0.00	-0.13	0.00	0.00
1996	44.04	31.28	19.54	0.00	11.74	17.60	19.07	4.90	20.02	0.00	0.00	0.48	0.00	0.00
1997	44.00	31.29	19.75	0.00	11.54	17.73	19.07	5.93	19.32	0.00	0.00	-0.43	0.00	0.00
1998	44.00	33.11	21.15	0.00	11.96	24.28	19.07	10.17	21.22	0.00	0.00	0.07	0.00	0.00
1999	44.00	30.28	18.37	0.00	11.91	17.17	19.07	6.54	17.78	-0.01	0.00	-0.57	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	ACT	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPERC	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
44.04	30.17	18.36	0.00	11.81	16.98	19.07	5.42	18.82	0.08	0.00	0.38	0.00	0.00	



XD 86-00.a1

SUMMARY OF ANNUAL VALUES FROM SPAW SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Projects\Fields\Dewey July 09\XD 86-00\XD 86-00.spw
File Creation Date : Jul 14, 2009 14:16:54
File Last Modified Date : Jul 14, 2009 14:16:55
Description : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 86-00
Simulation Start Date : Jan 01, 1986
Simulation End Date : Dec 31, 2000
Simulation Run Date : Jul 14, 2009 14:16
SPAW Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 86-00
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Projects\Fields\Dewey July 09\XD 86-00\XD 86-00.fld (Jul 15, 200900:00)
Climate : Dewey Burdock 86-00 climatic data
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Database\Climates\15-yr\86-00.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Database\Climates\Defaults\Dewey-Burdock.evdp (Aug 23, 2008 00:00)
Precipitation : SD8600 - Jan 01, 1986 to Dec 31, 2000
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Database\Climates\15-yr\86-00.txt (Feb 13, 2009 00:00)
Air Temperature : SD8600 - Jan 01, 1986 to Dec 31, 2000
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Database\Climates\15-yr\86-00.txt (Feb 13, 2009 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Database\Crope\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Dewey TP1, TP2, TP5 Revised Soils Composite
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Database\Soils\DRew 1-2-5.soil (Sep 16, 2008 00:00)

NUMBER OF SOIL LAYERS: 9

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 4.00 12.00 24.00 4.00 23.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AST	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPRN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1986	44.00	28.79	17.04	0.00	11.76	22.03	19.07	7.94	21.40	0.05	0.00	4.32	0.00	0.00
1987	44.00	28.36	16.48	0.00	11.87	12.36	19.07	2.20	17.36	0.56	0.00	0.32	0.00	0.00
1988	44.04	27.40	15.59	0.00	11.81	13.79	19.07	4.63	16.41	0.27	0.00	0.55	0.00	0.00
1989	44.00	28.91	17.06	0.00	11.85	15.58	19.07	4.75	18.06	0.21	0.00	0.79	0.00	0.00
1990	44.00	30.99	19.33	0.00	11.65	19.14	19.07	6.80	19.76	0.18	0.00	0.24	0.00	0.00
1991	44.00	29.21	17.29	0.00	11.92	15.03	19.07	4.53	17.65	0.00	0.00	0.37	0.00	0.00
1992	44.04	29.28	17.64	0.00	11.63	14.08	19.07	4.34	17.18	-0.01	0.00	-0.45	0.00	0.00
1993	44.00	32.92	20.93	0.00	11.99	22.31	19.07	7.70	21.69	0.01	0.00	0.75	0.00	0.00
1994	44.00	29.31	17.39	0.00	11.92	12.01	19.07	2.20	16.96	-0.01	0.00	-0.43	0.00	0.00
1995	44.00	32.03	20.22	0.00	11.81	18.32	19.07	5.49	20.10	0.00	0.00	-0.13	0.00	0.00
1996	44.04	31.28	19.54	0.00	11.74	17.60	19.07	4.90	20.02	0.00	0.00	0.48	0.00	0.00
1997	44.00	31.29	19.75	0.00	11.54	17.73	19.07	5.93	19.32	0.00	0.00	-0.43	0.00	0.00
1998	44.00	33.11	21.15	0.00	11.96	24.28	19.07	10.17	21.22	0.00	0.00	0.07	0.00	0.00
1999	44.00	30.28	18.37	0.00	11.91	17.17	19.07	6.54	17.78	-0.01	0.00	-0.57	0.00	0.00
2000	44.04	29.27	17.19	0.00	12.07	14.51	19.07	3.97	17.53	-0.04	0.00	0.37	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	AST	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPRN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	30.17	18.34	0.00	11.83	17.06	19.07	5.47	18.83	0.08	0.00	0.41	0.00	0.00



XD 87-01.a1

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 87-01\XD 87-01.spw
File Creation Date : Jul 17, 2009 08:50:43
File Last Modified Date : Jul 17, 2009 08:50:43
Description : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 87-01
Simulation Start Date : Jan 01, 1987
Simulation End Date : Dec 31, 2001
Simulation Run Date : Jul 17, 2009 08:50
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 87-01
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 87-01\XD 87-01.fld (Jul 17, 200900:00)
Climate : Dewey Burdock 87-01climatic data
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\87-01.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evdp (Aug 23, 2008 00:00)
Precipitation : SDS701 - Jan 01, 1987 to Dec 31, 2001
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\87-01.txt (Sep 16, 2008 00:00)
Air Temperature : SDS701 - Jan 01, 1987 to Dec 31, 2001
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\87-01.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Dewey TP1, TP2, TPS Revised Soils Composite
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Soils\Drev 1-2-5.soil (Sep 16, 2008 00:00)

NUMBER OF SOIL LAYERS: 9

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 4.00 12.00 24.00 4.00 23.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	ACT	EVAP	TRAW	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPRN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1987	44.00	25.64	13.77	0.00	11.87	12.36	19.07	2.13	17.43	0.05	0.00	3.61	0.00	0.00
1988	44.04	26.87	15.06	0.00	11.81	13.79	19.07	4.63	16.41	0.49	0.00	0.86	0.00	0.00
1989	44.00	28.54	16.69	0.00	11.85	15.58	19.07	4.75	18.06	0.32	0.00	1.04	0.00	0.00
1990	44.00	30.71	19.06	0.00	11.65	19.14	19.07	6.79	19.76	0.28	0.00	0.43	0.00	0.00
1991	44.00	28.82	16.90	0.00	11.92	15.03	19.07	4.53	17.65	0.13	0.00	0.62	0.00	0.00
1992	44.04	29.25	17.62	0.00	11.63	14.08	19.07	4.34	17.18	-0.01	0.00	-0.43	0.00	0.00
1993	44.00	32.92	20.93	0.00	11.99	22.31	19.07	7.70	21.69	0.01	0.00	0.75	0.00	0.00
1994	44.00	29.31	17.39	0.00	11.92	12.01	19.07	2.20	16.96	-0.01	0.00	-0.43	0.00	0.00
1995	44.00	32.03	20.22	0.00	11.81	18.32	19.07	5.49	20.10	0.00	0.00	-0.13	0.00	0.00
1996	44.04	31.28	19.54	0.00	11.74	17.60	19.07	4.90	20.02	0.00	0.00	0.48	0.00	0.00
1997	44.00	31.29	19.75	0.00	11.54	17.73	19.07	5.93	19.32	0.00	0.00	-0.43	0.00	0.00
1998	44.00	33.11	21.15	0.00	11.96	24.28	19.07	10.17	21.22	0.00	0.00	0.07	0.00	0.00
1999	44.00	30.28	18.37	0.00	11.91	17.17	19.07	6.54	17.78	-0.01	0.00	-0.57	0.00	0.00
2000	44.04	29.27	17.19	0.00	12.07	14.51	19.07	3.97	17.53	-0.04	0.00	0.37	0.00	0.00
2001	44.00	30.09	18.34	0.00	11.75	18.10	19.07	6.79	18.63	0.04	0.00	0.25	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	ACT	EVAP	TRAW	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPRN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	29.97	18.14	0.00	11.83	16.80	19.07	5.39	18.65	0.08	0.00	0.42	0.00	0.00



XD 88-02.a1

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 88-02\XD 88-02.spw
File Creation Date : Jul 14, 2009 13:01:22
File Last Modified Date : Jul 14, 2009 14:18:57
Description : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 88-02
Simulation Start Date : Jan 01, 1988
Simulation End Date : Dec 31, 2002
Simulation Run Date : Jul 14, 2009 14:18
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 88-02
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 88-02\XD 88-02.fld (Jul 15, 2009 00:00)
Climate : Dewey Burdock 88-02 climatic data
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\88-02.cla (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD8802 - Jan 01, 1988 to Dec 31, 2002
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\88-02.txt (Sep 16, 2008 00:00)
Air Temperature : SD8802 - Jan 01, 1988 to Dec 31, 2002
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\88-02.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Dewey TP1, TP2, TP3 Revised Soils Composite
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Soils\DWey 1-2-5.soil (Sep 16, 2008 00:00)

NUMBER OF SOIL LAYERS: 9

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 4.00 12.00 24.00 4.00 23.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	NET	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPDRN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1988	44.04	24.73	12.93	0.00	11.80	13.40	19.07	4.32	16.34	-0.02	0.00	3.43	0.00	0.00
1989	44.00	28.16	16.31	0.00	11.85	15.58	19.07	4.51	18.30	0.56	0.00	1.43	0.00	0.00
1990	44.00	30.50	18.84	0.00	11.65	19.14	19.07	6.67	19.88	0.39	0.00	0.65	0.00	0.00
1991	44.00	28.46	16.54	0.00	11.92	15.03	19.07	4.53	17.65	0.26	0.00	0.85	0.00	0.00
1992	44.04	29.18	17.55	0.00	11.63	14.08	19.07	4.12	17.40	0.07	0.00	-0.23	0.00	0.00
1993	44.00	32.92	20.93	0.00	11.99	22.31	19.07	7.70	21.69	0.01	0.00	0.75	0.00	0.00
1994	44.00	29.31	17.39	0.00	11.92	12.01	19.07	2.20	16.96	-0.01	0.00	-0.43	0.00	0.00
1995	44.00	32.03	20.22	0.00	11.81	18.32	19.07	5.49	20.10	0.00	0.00	-0.13	0.00	0.00
1996	44.04	31.28	19.54	0.00	11.74	17.60	19.07	4.90	20.02	0.00	0.00	0.40	0.00	0.00
1997	44.00	31.29	19.75	0.00	11.54	17.73	19.07	5.93	19.32	0.00	0.00	-0.43	0.00	0.00
1998	44.00	33.11	21.15	0.00	11.96	24.28	19.07	10.17	21.22	0.00	0.00	0.07	0.00	0.00
1999	44.00	30.28	18.37	0.00	11.91	17.17	19.07	6.54	17.78	-0.01	0.00	-0.57	0.00	0.00
2000	44.04	29.27	17.19	0.00	12.07	14.51	19.07	3.97	17.53	-0.04	0.00	0.37	0.00	0.00
2001	44.00	30.09	18.34	0.00	11.75	18.10	19.07	6.79	18.63	0.04	0.00	0.25	0.00	0.00
2002	44.00	29.59	17.96	0.00	11.63	13.11	19.07	3.07	17.48	0.00	0.00	-0.49	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	NET	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPDRN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	30.02	18.21	0.00	11.81	16.82	19.07	5.40	18.69	0.08	0.00	0.39	0.00	0.00

XD 89-03.anr

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dewey
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 89-03\XD 89-03.spw
File Creation Date : Jul 14, 2008 13:00:04
File Last Modified Date : Jul 14, 2009 14:18:01
Description : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 89-03
Simulation Start Date : Jan 01, 1989
Simulation End Date : Dec 31, 2003
Simulation Run Date : Jul 14, 2009 14:18
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 89-03
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 89-03\XD 89-03.fld (Jul 15, 2009 00:00)
Climate : Dewey Burdock 89-03 climatic data
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\89-03.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evdpd (Aug 23, 2008 00:00)
Precipitation : SD8903 - Jan 01, 1989 to Dec 31, 2003
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\89-03.txt (Sep 16, 2008 00:00)
Air Temperature : SD8903 - Jan 01, 1989 to Dec 31, 2003
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\89-03.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare-mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Dewey TP1, TP2, TP5 Revised Soils Composite
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Soils\DRRev 1-2-5.soil (Sep 16, 2008 00:00)

NUMBER OF SOIL LAYERS: 9

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 4.00 12.00 24.00 4.00 23.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AST	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1989	44.00	26.43	14.63	0.00	11.80	15.49	19.07	4.24	18.52	-0.01	0.00	3.90	0.00	0.00
1990	44.00	30.06	18.41	0.00	11.65	19.14	19.07	6.67	19.88	0.58	0.00	0.89	0.00	0.00
1991	44.00	28.22	16.31	0.00	11.92	15.03	19.07	4.53	17.65	0.35	0.00	1.00	0.00	0.00
1992	44.04	28.86	17.22	0.00	11.63	14.08	19.07	4.31	17.21	0.11	0.00	-0.13	0.00	0.00
1993	44.00	32.46	20.47	0.00	11.99	22.31	19.07	7.48	21.91	0.23	0.00	1.21	0.00	0.00
1994	44.00	29.28	17.37	0.00	11.92	12.01	19.07	2.20	16.96	0.00	0.00	-0.40	0.00	0.00
1995	44.00	32.03	20.22	0.00	11.81	18.32	19.07	5.49	20.10	0.00	0.00	-0.13	0.00	0.00
1996	44.04	31.28	19.54	0.00	11.74	17.60	19.07	4.90	20.02	0.00	0.00	0.48	0.00	0.00
1997	44.00	31.29	19.75	0.00	11.54	17.73	19.07	5.93	19.32	0.00	0.00	-0.43	0.00	0.00
1998	44.00	33.11	21.15	0.00	11.96	24.28	19.07	10.17	21.22	0.00	0.00	0.07	0.00	0.00
1999	44.00	30.28	18.37	0.00	11.91	17.17	19.07	6.54	17.78	-0.01	0.00	-0.57	0.00	0.00
2000	44.04	29.27	17.19	0.00	12.07	14.51	19.07	3.97	17.53	-0.04	0.00	0.37	0.00	0.00
2001	44.00	30.09	18.34	0.00	11.75	18.10	19.07	6.79	18.63	0.04	0.00	0.25	0.00	0.00
2002	44.00	29.59	17.96	0.00	11.63	13.11	19.07	3.07	17.48	0.00	0.00	-0.49	0.00	0.00
2003	44.00	29.55	17.64	0.00	11.91	14.69	19.07	3.80	18.06	0.00	0.00	0.42	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	AST	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	30.13	18.32	0.00	11.82	16.90	19.07	5.34	18.82	0.08	0.00	0.42	0.00	0.00





XD 90-04.a1

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 90-04\XD 90-04.spw
File Creation Date : Jul 13, 2009 08:42:33
File Last Modified Date : Jul 13, 2009 08:42:34
Description : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 90-04
Simulation Start Date : Jan 01, 1990
Simulation End Date : Dec 31, 2004
Simulation Run Date : Jul 13, 2009 08:42
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2003

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 90-04
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 90-04\XD 90-04.fld (Jul 13, 200900:00)
Climate : Dewey Burdock 90-04 climatic data
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\90-04.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD9004 - Jan 01, 1990 to Dec 31, 2004
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\90-04.txt (Sep 16, 2008 00:00)
Air Temperature : SD9004 - Jan 01, 1990 to Dec 31, 2004
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\90-04.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Dewey TPL, TP2, TP5 Revised Soils Composite
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Soils\DRex 1-2-3.soil (Sep 16, 2008 00:00)

NUMBER OF SOIL LAYERS: 9

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 4.00 12.00 24.00 4.00 23.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET in	AET in	EVAP in	TRAN in	INT in	PRECIP in	IRRIG in	RUNOFF in	INFIL in	PERC in	DEEPPERM in	DLT-SM in	STRESS	YLDRED
1990	44.00	28.51	16.89	0.00	11.62	19.11	19.07	5.73	20.82	0.04	0.00	3.89	0.00	0.00
1991	44.00	27.91	15.99	0.00	11.92	15.03	19.07	4.39	17.79	0.57	0.00	1.23	0.00	0.00
1992	44.04	28.56	16.93	0.00	11.63	14.08	19.07	4.18	17.34	0.25	0.00	0.16	0.00	0.00
1993	44.00	32.25	20.26	0.00	11.99	22.31	19.07	7.19	22.21	0.39	0.00	1.55	0.00	0.00
1994	44.00	29.24	17.33	0.00	11.92	12.01	19.07	2.20	16.96	0.01	0.00	-0.38	0.00	0.00
1995	44.00	32.03	20.22	0.00	11.81	18.32	19.07	5.49	20.10	0.00	0.00	-0.13	0.00	0.00
1996	44.04	31.28	19.54	0.00	11.74	17.60	19.07	4.90	20.02	0.00	0.00	0.48	0.00	0.00
1997	44.00	31.29	19.75	0.00	11.54	17.73	19.07	5.93	19.32	0.00	0.00	-0.43	0.00	0.00
1998	44.00	33.11	21.15	0.00	11.96	24.28	19.07	10.17	21.22	0.00	0.00	0.07	0.00	0.00
1999	44.00	30.28	18.37	0.00	11.91	17.17	19.07	6.54	17.78	-0.01	0.00	-0.57	0.00	0.00
2000	44.04	29.27	17.19	0.00	12.07	14.51	19.07	3.97	17.53	-0.04	0.00	0.37	0.00	0.00
2001	44.00	30.09	18.34	0.00	11.75	18.10	19.07	6.79	18.63	0.04	0.00	0.25	0.00	0.00
2002	44.00	29.59	17.96	0.00	11.63	13.11	19.07	3.07	17.48	0.00	0.00	-0.49	0.00	0.00
2003	44.00	29.35	17.64	0.00	11.91	14.69	19.07	3.80	18.06	0.00	0.00	0.42	0.00	0.00
2004	44.04	29.17	17.73	0.00	11.44	12.18	19.07	2.26	17.55	0.00	0.00	-0.19	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET in	AET in	EVAP in	TRAN in	INT in	PRECIP in	IRRIG in	RUNOFF in	INFIL in	PERC in	DEEPPERM in	DLT-SM in	STRESS	YLDRED
44.04	30.16	18.36	0.00	11.80	16.84	19.07	5.11	19.00	0.08	0.00	0.56	0.00	0.00



XD 91-05.aal

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 91-05\XD 91-05.spw
File Creation Date : Jul 16, 2009 14:43:40
File Last Modified Date : Jul 16, 2009 14:43:41
Description : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 91-05
Simulation Start Date : Jan 01, 1991
Simulation End Date : Dec 31, 2005
Simulation Run Date : Jul 16, 2009 14:43
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 91-05
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 91-05\XD 91-05.fld (Jul 17, 2009 00:00)
Climate : Dewey Burdock 91-05 climatic data
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\91-05.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD9105 - Jan 01, 1991 to Dec 31, 2005
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\91-05.txt (Sep 16, 2008 00:00)
Air Temperature : SD9105 - Jan 01, 1991 to Dec 31, 2005
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\91-05.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Dewey TP1, TP2, TP5 Revised Soils Composite
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Soils\DSRev 1-2-5.soil (Sep 16, 2008 00:00)

NUMBER OF SOIL LAYERS: 9

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 4.00 12.00 24.00 4.00 23.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	ACT	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1991	44.00	26.48	14.60	0.00	11.88	14.99	19.07	3.53	18.65	0.03	0.00	4.03	0.00	0.00
1992	44.04	28.13	16.50	0.00	11.63	14.08	19.07	3.89	17.63	0.53	0.00	0.60	0.00	0.00
1993	44.00	32.12	20.13	0.00	11.99	22.31	19.07	7.04	22.35	0.48	0.00	1.74	0.00	0.00
1994	44.00	28.96	17.05	0.00	11.92	12.01	19.07	2.20	16.96	0.10	0.00	-0.19	0.00	0.00
1995	44.00	31.71	19.91	0.00	11.81	18.32	19.07	5.40	20.18	0.13	0.00	0.14	0.00	0.00
1996	44.04	31.25	19.50	0.00	11.74	17.60	19.07	4.93	19.99	0.00	0.00	0.49	0.00	0.00
1997	44.00	31.29	19.75	0.00	11.54	17.73	19.07	5.93	19.32	0.00	0.00	-0.43	0.00	0.00
1998	44.00	33.11	21.15	0.00	11.96	24.28	19.07	10.17	21.22	0.00	0.00	0.07	0.00	0.00
1999	44.00	30.28	18.37	0.00	11.91	17.17	19.07	6.54	17.78	-0.01	0.00	-0.57	0.00	0.00
2000	44.04	29.27	17.19	0.00	12.07	14.51	19.07	3.97	17.53	-0.04	0.00	0.37	0.00	0.00
2001	44.00	30.09	18.34	0.00	11.75	18.10	19.07	6.79	18.63	0.04	0.00	0.25	0.00	0.00
2002	44.00	29.59	17.96	0.00	11.63	13.11	19.07	3.07	17.48	0.00	0.00	-0.49	0.00	0.00
2003	44.00	29.55	17.64	0.00	11.91	14.69	19.07	3.80	18.06	0.00	0.00	0.42	0.00	0.00
2004	44.04	29.17	17.73	0.00	11.44	12.18	19.07	2.26	17.55	0.00	0.00	-0.19	0.00	0.00
2005	44.00	30.38	18.72	0.00	11.66	20.16	19.07	9.07	18.50	-0.01	0.00	-0.21	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	ACT	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	30.11	18.31	0.00	11.80	16.90	19.07	5.24	18.94	0.08	0.00	0.54	0.00	0.00



XD 92-06.a1

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 92-06\XD 92-06.spw
File Creation Date : Jul 16, 2009 14:44:49
File Last Modified Date : Jul 16, 2009 14:44:50
Description : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 92-06
Simulation Start Date : Jan 01, 1992
Simulation End Date : Dec 31, 2006
Simulation Run Date : Jul 16, 2009 14:44
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 92-06
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 92-06\XD 92-06.fld (Jul 17, 200900:00)
Climate : Dewey Burdock 92-06 climatic data
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\92-06.cla (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evapd (Aug 23, 2008 00:00)
Precipitation : SD9206 - Jan 01, 1992 to Dec 31, 2006
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\92-06.txt (Sep 16, 2008 00:00)
Air Temperature : SD9206 - Jan 01, 1992 to Dec 31, 2006
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\92-06.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Dewey TP1, TP2, TP5 Revised Soils Composite
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Soils\DRew 1-2-5.soil (Sep 16, 2008 00:00)

NUMBER OF SOIL LAYERS: 9

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 4.00 12.00 24.00 4.00 23.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	NET	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPRN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1992	44.04	26.54	14.91	0.00	11.63	14.08	19.07	3.00	18.52	-0.01	0.00	3.62	0.00	0.00
1993	44.00	31.86	19.87	0.00	11.99	22.31	19.07	6.81	22.59	0.69	0.00	2.02	0.00	0.00
1994	44.00	28.63	16.71	0.00	11.92	12.01	19.07	2.04	17.12	0.26	0.00	0.15	0.00	0.00
1995	44.00	31.50	19.69	0.00	11.81	18.32	19.07	5.42	20.16	0.20	0.00	0.27	0.00	0.00
1996	44.04	30.91	19.17	0.00	11.74	17.60	19.07	4.90	20.03	0.13	0.00	0.72	0.00	0.00
1997	44.00	31.26	19.72	0.00	11.54	17.73	19.07	5.93	19.32	0.00	0.00	-0.40	0.00	0.00
1998	44.00	33.11	21.15	0.00	11.96	24.28	19.07	10.17	21.22	0.00	0.00	0.07	0.00	0.00
1999	44.00	30.29	18.37	0.00	11.91	17.17	19.07	6.54	17.78	-0.01	0.00	-0.57	0.00	0.00
2000	44.04	29.27	17.19	0.00	12.07	14.51	19.07	3.97	17.53	-0.04	0.00	0.37	0.00	0.00
2001	44.00	30.09	18.34	0.00	11.75	18.10	19.07	6.79	18.63	0.04	0.00	0.25	0.00	0.00
2002	44.00	29.59	17.96	0.00	11.63	13.11	19.07	3.07	17.48	0.00	0.00	-0.49	0.00	0.00
2003	44.00	29.55	17.64	0.00	11.91	14.69	19.07	3.80	18.06	0.00	0.00	0.42	0.00	0.00
2004	44.04	29.17	17.73	0.00	11.44	12.18	19.07	2.26	17.55	0.00	0.00	-0.19	0.00	0.00
2005	44.00	30.38	18.72	0.00	11.66	20.16	19.07	9.07	18.50	-0.01	0.00	-0.21	0.00	0.00
2006	44.00	28.22	16.43	0.00	11.79	13.22	19.07	3.84	16.67	-0.01	0.00	0.25	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	NET	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPRN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	30.04	18.24	0.00	11.79	16.79	19.07	5.17	18.89	0.08	0.00	0.56	0.00	0.00



XD 93-07.ani

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 93-07\XD 93-07.spw
File Creation Date : Jul 16, 2009 14:45:52
File Last Modified Date : Jul 16, 2009 14:45:53
Description : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 93-07
Simulation Start Date : Jan 01, 1993
Simulation End Date : Dec 31, 2007
Simulation Run Date : Jul 16, 2009 14:45
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 93-07
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 93-07\XD 93-07.fld (Jul 17, 200900:00)
Climate : Dewey Burdock 93-07 climatic data
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\93-07.cim (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evdp (Aug 23, 2008 00:00)
Precipitation : SD9307 - Jan 01, 1993 to Dec 31, 2007
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\93-07.txt (Sep 16, 2008 00:00)
Air Temperature : SD9307 - Jan 01, 1993 to Dec 31, 2007
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\93-07.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Dewey TP1, TP2, TP5 Revised Soils Composite
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Soils\DRew 1-2-5.soil (Sep 16, 2008 00:00)

NUMBER OF SOIL LAYERS: 9

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 4.00 12.00 24.00 4.00 23.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AEI	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1993	44.00	29.76	17.81	0.00	11.95	21.44	19.07	6.14	22.43	0.08	0.00	4.53	0.00	0.00
1994	44.00	27.95	16.03	0.00	11.92	12.01	19.07	2.04	17.12	0.53	0.00	0.56	0.00	0.00
1995	44.00	31.24	19.44	0.00	11.81	18.32	19.07	5.27	20.31	0.33	0.00	0.55	0.00	0.00
1996	44.04	30.72	18.98	0.00	11.74	17.60	19.07	4.90	20.03	0.20	0.00	0.85	0.00	0.00
1997	44.00	30.86	19.31	0.00	11.54	17.73	19.07	5.93	19.32	0.14	0.00	-0.13	0.00	0.00
1998	44.00	33.08	21.12	0.00	11.96	24.28	19.07	10.17	21.22	0.00	0.00	0.10	0.00	0.00
1999	44.00	30.23	18.32	0.00	11.31	17.17	19.07	6.59	17.73	-0.01	0.00	-0.57	0.00	0.00
2000	44.04	29.27	17.19	0.00	12.07	14.31	19.07	3.97	17.53	-0.04	0.00	0.38	0.00	0.00
2001	44.00	30.09	18.34	0.00	11.75	18.10	19.07	6.79	18.63	0.04	0.00	0.25	0.00	0.00
2002	44.00	29.59	17.96	0.00	11.63	13.11	19.07	3.07	17.48	0.00	0.00	-0.49	0.00	0.00
2003	44.00	29.55	17.64	0.00	11.91	14.69	19.07	3.80	18.06	0.00	0.00	0.42	0.00	0.00
2004	44.04	29.17	17.73	0.00	11.44	12.18	19.07	2.26	17.55	0.00	0.00	-0.19	0.00	0.00
2005	44.00	30.38	18.72	0.00	11.66	20.16	19.07	9.07	18.50	-0.01	0.00	-0.21	0.00	0.00
2006	44.00	28.22	16.43	0.00	11.79	13.22	19.07	3.84	16.67	-0.01	0.00	0.25	0.00	0.00
2007	44.00	28.57	17.12	0.00	11.45	14.33	19.07	5.06	16.89	-0.02	0.00	-0.21	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	AEI	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	29.93	18.15	0.00	11.78	16.82	19.07	5.26	18.84	0.08	0.00	0.61	0.00	0.00



XD 94-80.an1

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 94-80\XD 94-80.spw
File Creation Date : Jul 16, 2009 14:46:57
File Last Modified Date : Jul 16, 2009 14:46:58
Description : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 94-80
Simulation Start Date : Jan 01, 1994
Simulation End Date : Dec 31, 2008
Simulation Run Date : Jul 16, 2009 14:46
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 94-80
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 94-80\XD 94-80.fld (Jul 17, 200900:00)
Climate : Dewey Burdock 94-80 climatic data
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\94-80.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evdp (Aug 23, 2008 00:00)
Precipitation : SD9480 - Jan 01, 1994 to Dec 31, 2008
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\94-80.txt (Sep 16, 2008 00:00)
Air Temperature : SD9480 - Jan 01, 1994 to Dec 31, 2008
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\94-80.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Dewey TP1, TP2, TP5 Revised Soils Composite
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Soils\DRew 1-2-5.soil (Sep 16, 2008 00:00)

NUMBER OF SOIL LAYERS:

9

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 4.00 12.00 24.00 4.00 23.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	NET	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPRN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1994	44.00	25.16	13.24	0.00	11.92	12.01	19.07	2.04	17.12	-0.03	0.00	3.91	0.00	0.00
1995	44.00	30.81	19.01	0.00	11.81	18.32	19.07	4.95	20.63	0.61	0.00	1.02	0.00	0.00
1996	44.04	30.47	18.73	0.00	11.74	17.60	19.07	4.90	20.03	0.29	0.00	1.00	0.00	0.00
1997	44.00	30.51	18.96	0.00	11.54	17.73	19.07	5.69	19.56	0.34	0.00	0.26	0.00	0.00
1998	44.00	33.07	21.12	0.00	11.96	24.28	19.07	9.94	21.45	0.07	0.00	0.26	0.00	0.00
1999	44.00	30.24	18.32	0.00	11.91	17.17	19.07	6.59	17.73	-0.02	0.00	-0.58	0.00	0.00
2000	44.04	29.27	17.19	0.00	12.07	14.51	19.07	3.97	17.53	-0.04	0.00	0.38	0.00	0.00
2001	44.00	30.09	18.34	0.00	11.75	18.10	19.07	6.79	18.63	0.04	0.00	0.25	0.00	0.00
2002	44.00	29.59	17.96	0.00	11.63	13.11	19.07	3.07	17.48	0.00	0.00	-0.49	0.00	0.00
2003	44.00	29.55	17.64	0.00	11.91	14.69	19.07	3.80	18.06	0.00	0.00	0.42	0.00	0.00
2004	44.04	29.17	17.73	0.00	11.44	12.18	19.07	2.26	17.55	0.00	0.00	-0.19	0.00	0.00
2005	44.00	30.38	18.72	0.00	11.66	20.16	19.07	9.07	18.50	-0.01	0.00	-0.21	0.00	0.00
2006	44.00	28.22	16.43	0.00	11.79	13.22	19.07	3.84	16.67	-0.01	0.00	0.25	0.00	0.00
2007	44.00	28.57	17.12	0.00	11.45	14.33	19.07	5.06	16.89	-0.02	0.00	-0.21	0.00	0.00
2008	44.04	31.28	19.19	0.00	12.08	16.74	19.07	4.21	19.51	0.04	0.00	0.28	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	NET	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPRN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	29.77	17.98	0.00	11.79	16.43	19.07	5.08	18.64	0.08	0.00	0.57	0.00	0.00



XD 95-81.anl

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 95-81\XD 95-81.spw
File Creation Date : Jul 16, 2009 14:49:05
File Last Modified Date : Jul 16, 2009 14:49:05
Description : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 95-81
Simulation Start Date : Jan 01, 1995
Simulation End Date : Dec 31, 2009
Simulation Run Date : Jul 16, 2009 14:49
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 95-81
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 95-81\XD 95-81.fld (Jul 17, 200900:00)
Climate : Dewey Burdock 95-81 climatic data
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\95-81.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD9581 - Jan 01, 1995 to Dec 31, 2009
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\95-81.txt (Sep 16, 2008 00:00)
Air Temperature : SD9581 - Jan 01, 1995 to Dec 31, 2009
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\95-81.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Dewey TP1, TP2, TP5 Revised Soils Composite
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Soils\DRex 1-2-5.soil (Sep 16, 2008 00:00)

NUMBER OF SOIL LAYERS: 9

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 4.00 12.00 24.00 4.00 23.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AEI	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPEN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1995	44.00	29.26	17.48	0.00	11.79	18.14	19.07	3.87	21.56	0.04	0.00	4.04	0.00	0.00
1996	44.04	30.07	18.33	0.00	11.74	17.60	19.07	4.76	20.17	0.54	0.00	1.30	0.00	0.00
1997	44.00	30.27	18.72	0.00	11.54	17.73	19.07	5.68	19.58	0.42	0.00	0.43	0.00	0.00
1998	44.00	32.79	20.83	0.00	11.96	24.28	19.07	9.62	21.77	0.27	0.00	0.67	0.00	0.00
1999	44.00	30.27	18.35	0.00	11.91	17.17	19.07	6.54	17.78	-0.01	0.00	-0.56	0.00	0.00
2000	44.04	29.27	17.19	0.00	12.07	14.51	19.07	3.97	17.53	-0.04	0.00	0.38	0.00	0.00
2001	44.00	30.09	18.34	0.00	11.75	18.10	19.07	6.79	18.63	0.04	0.00	0.25	0.00	0.00
2002	44.00	29.59	17.96	0.00	11.63	13.11	19.07	3.07	17.48	0.00	0.00	-0.49	0.00	0.00
2003	44.00	29.55	17.64	0.00	11.91	14.69	19.07	3.80	18.06	0.00	0.00	0.42	0.00	0.00
2004	44.04	29.17	17.73	0.00	11.44	12.18	19.07	2.26	17.55	0.00	0.00	-0.19	0.00	0.00
2005	44.00	30.38	18.72	0.00	11.66	20.16	19.07	9.07	18.30	-0.01	0.00	-0.21	0.00	0.00
2006	44.00	28.22	16.43	0.00	11.79	13.22	19.07	3.84	16.67	-0.01	0.00	0.25	0.00	0.00
2007	44.00	28.57	17.12	0.00	11.45	14.33	19.07	5.06	16.89	-0.02	0.00	-0.21	0.00	0.00
2008	44.04	31.28	19.19	0.00	12.08	16.74	19.07	4.21	19.51	0.04	0.00	0.28	0.00	0.00
2009	44.00	28.29	16.98	0.00	11.31	13.46	19.07	4.62	16.60	-0.01	0.00	-0.37	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	AEI	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPEN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	29.82	18.07	0.00	11.74	16.52	19.07	5.14	18.70	0.08	0.00	0.54	0.00	0.00



XD 96-82.anl

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 96-82\XD 96-82.spw
File Creation Date : Jul 16, 2009 14:51:25
File Last Modified Date : Jul 16, 2009 14:51:25
Description : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 96-82
Simulation Start Date : Jan 01, 1996
Simulation End Date : Dec 31, 2010
Simulation Run Date : Jul 16, 2009 14:51
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 96-82
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 96-82\XD 96-82.fld (Jul 17, 200900:00)
Climate : Dewey Burdock 96-82 climatic data
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\96-82.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD9682 - Jan 01, 1996 to Dec 31, 2010
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\96-82.txt (Sep 16, 2008 00:00)
Air Temperature : SD9682 - Jan 01, 1996 to Dec 31, 2010
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\96-82.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Dewey TP1, TP2, TP5 Revised Soils Composite
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Soils\DRew 1-2-5.soil (Sep 16, 2008 00:00)

NUMBER OF SOIL LAYERS: 9

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 4.00 12.00 24.00 4.00 23.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET in	AET in	EVAP in	TRAM in	INT in	PRECIP in	IRRG in	RUNOFF in	INFIL in	PERC in	DEEPRN in	DLT-SM in	STRESS	YLDRED
1996	44.04	28.13	16.39	0.00	11.74	17.60	19.07	4.09	20.83	0.04	0.00	4.40	0.00	0.00
1997	44.00	29.69	18.34	0.00	11.54	17.73	19.07	5.62	19.64	0.63	0.00	0.66	0.00	0.00
1998	44.00	32.50	20.55	0.00	11.96	24.28	19.07	9.32	21.87	0.38	0.00	0.94	0.00	0.00
1999	44.00	30.13	18.21	0.00	11.91	17.17	19.07	6.37	17.96	0.10	0.00	-0.35	0.00	0.00
2000	44.04	29.16	17.08	0.00	12.07	14.51	19.07	3.97	17.53	0.00	0.00	0.45	0.00	0.00
2001	44.00	29.90	18.15	0.00	11.75	18.10	19.07	6.79	18.63	0.11	0.00	0.38	0.00	0.00
2002	44.00	29.37	17.94	0.00	11.63	13.11	19.07	3.07	17.48	0.01	0.00	-0.47	0.00	0.00
2003	44.00	29.54	17.64	0.00	11.91	14.69	19.07	3.40	18.06	0.00	0.00	0.42	0.00	0.00
2004	44.04	29.17	17.73	0.00	11.44	12.18	19.07	2.26	17.55	0.00	0.00	-0.19	0.00	0.00
2005	44.00	30.38	18.72	0.00	11.66	20.16	19.07	9.07	18.50	-0.01	0.00	-0.21	0.00	0.00
2006	44.00	28.18	16.40	0.00	11.79	13.22	19.07	3.87	16.64	-0.01	0.00	0.25	0.00	0.00
2007	44.00	28.57	17.12	0.00	11.45	14.33	19.07	5.06	16.89	-0.02	0.00	-0.21	0.00	0.00
2008	44.04	31.28	19.20	0.00	12.08	16.74	19.07	4.21	19.51	0.04	0.00	0.28	0.00	0.00
2009	44.00	28.29	16.98	0.00	11.31	13.46	19.07	4.62	16.60	-0.01	0.00	-0.37	0.00	0.00
2010	44.00	32.18	20.33	0.00	11.85	21.88	19.07	8.40	20.70	0.01	0.00	0.35	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET in	AET in	EVAP in	TRAM in	INT in	PRECIP in	IRRG in	RUNOFF in	INFIL in	PERC in	DEEPRN in	DLT-SM in	STRESS	YLDRED
44.04	29.80	18.06	0.00	11.75	16.77	19.07	5.38	18.71	0.08	0.00	0.57	0.00	0.00



XD 97-83.inl

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 97-83\XD 97-83.spw
File Creation Date : Jul 16, 2009 14:52:45
File Last Modified Date : Jul 16, 2009 14:52:46
Description : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil: 314.5 acres; 97-83
Simulation Start Date : Jan 01, 1997
Simulation End Date : Dec 31, 2011
Simulation Run Date : Jul 16, 2009 14:52
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil: 314.5 acres; 97-83
Climate : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 97-83\XD 97-83.fld (Jul 17, 200900:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
Precipitation : SD9783 - Jan 01, 1997 to Dec 31, 2011
Air Temperature : SD9783 - Jan 01, 1997 to Dec 31, 2011
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil: 314.5 acres
Crop (1) : Bare feedlot or fallow field
Soil : Dewey TPL, TP2, TP5 Revised Soils Composite
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\97-83.clm (Sep 16, 2008 00:00)
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\97-83.txt (Sep 16, 2008 00:00)
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\97-83.txt (Sep 16, 2008 00:00)
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Soils\DREV 1-2-5.soil (Sep 16, 2008 00:00)

NUMBER OF SOIL LAYERS: 9

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 4.00 12.00 24.00 4.00 23.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AEI	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1997	44.00	27.98	16.44	0.00	11.54	17.73	19.07	4.75	20.50	0.08	0.00	3.98	0.00	0.00
1998	44.00	32.12	20.16	0.00	11.96	24.28	19.07	9.18	22.22	0.66	0.00	1.40	0.00	0.00
1999	44.00	29.69	17.78	0.00	11.91	17.17	19.07	6.54	17.78	0.19	0.00	-0.19	0.00	0.00
2000	44.04	28.91	16.83	0.00	12.07	14.51	19.07	3.97	17.53	0.08	0.00	0.62	0.00	0.00
2001	44.00	29.77	18.02	0.00	11.75	18.10	19.07	6.79	18.63	0.14	0.00	0.47	0.00	0.00
2002	44.00	29.42	17.79	0.00	11.63	13.11	19.07	3.07	17.48	0.06	0.00	-0.38	0.00	0.00
2003	44.00	29.47	17.56	0.00	11.91	14.69	19.07	3.80	18.06	0.02	0.00	0.47	0.00	0.00
2004	44.04	29.10	17.66	0.00	11.44	12.18	19.07	2.26	17.55	0.02	0.00	-0.13	0.00	0.00
2005	44.00	30.36	18.70	0.00	11.66	20.16	19.07	9.07	18.50	0.00	0.00	-0.20	0.00	0.00
2006	44.00	28.18	16.40	0.00	11.79	13.22	19.07	3.87	16.44	-0.01	0.00	0.25	0.00	0.00
2007	44.00	28.57	17.12	0.00	11.45	14.33	19.07	5.06	16.89	-0.02	0.00	-0.21	0.00	0.00
2008	44.04	31.28	19.19	0.00	12.08	16.74	19.07	4.21	19.51	0.04	0.00	0.28	0.00	0.00
2009	44.00	28.29	16.98	0.00	11.31	13.46	19.07	4.62	16.60	-0.01	0.00	-0.37	0.00	0.00
2010	44.00	32.18	20.33	0.00	11.85	21.88	19.07	8.40	20.70	0.01	0.00	0.35	0.00	0.00
2011	44.00	29.69	17.91	0.00	11.78	16.16	19.07	5.31	18.14	-0.01	0.00	0.24	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

	PET	AEI	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
	44.04	29.68	17.93	0.00	11.75	16.74	19.07	5.39	18.66	0.08	0.00	0.65	0.00	0.00



XD 98-84.anl

SUMMARY OF ANNUAL VALUES FROM SPAW SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAW Model\Projects\Fields\Dewey July 09\XD 98-84\XD 98-84.spw
File Creation Date : Jul 16, 2009 14:54:37
File Last Modified Date : Jul 16, 2009 14:54:38
Description : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 98-84
Simulation Start Date : Jan 01, 1998
Simulation End Date : Dec 31, 2012
Simulation Run Date : Jul 16, 2009 14:54
SPAW Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 98-84
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAW Model\Projects\Fields\Dewey July 09\XD 98-84\XD 98-84.fld (Jul 17, 200900:00)
Climate : Dewey Burdock 98-84 climatic data
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAW Model\Database\Climates\15-yr\98-84.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAW Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD9884 - Jan 01, 1998 to Dec 31, 2012
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAW Model\Database\Climates\15-yr\98-84.txt (Sep 16, 2008 00:00)
Air Temperature : SD9884 - Jan 01, 1998 to Dec 31, 2012
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAW Model\Database\Climates\15-yr\98-84.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAW Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAW Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Dewey TFI, TP2, TFS Revised Soils Composite
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAW Model\Database\Soils\DRex 1-2-5.soil (Sep 16, 2008 00:00)

NUMBER OF SOIL LAYERS: 9

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 4.00 12.00 24.00 4.00 23.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AEI	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPDRN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1998	44.00	30.67	18.71	0.00	11.96	24.28	19.07	8.41	22.98	0.06	0.00	4.21	0.00	0.00
1999	44.00	29.36	17.44	0.00	11.91	17.17	19.07	6.00	18.33	0.56	0.00	0.33	0.00	0.00
2000	44.00	28.64	16.37	0.00	12.07	14.51	19.07	3.84	17.67	0.22	0.00	0.88	0.00	0.00
2001	44.00	29.59	17.84	0.00	11.75	18.10	19.07	6.79	18.63	0.20	0.00	0.59	0.00	0.00
2002	44.00	29.29	17.66	0.00	11.63	13.11	19.07	3.07	17.48	0.10	0.00	-0.29	0.00	0.00
2003	44.00	29.40	17.50	0.00	11.91	14.69	19.07	3.80	18.06	0.05	0.00	0.52	0.00	0.00
2004	44.00	28.99	17.55	0.00	11.44	12.18	19.07	2.26	17.55	0.06	0.00	-0.06	0.00	0.00
2005	44.00	30.28	18.62	0.00	11.66	20.16	19.07	9.07	18.50	0.02	0.00	-0.14	0.00	0.00
2006	44.00	28.21	16.43	0.00	11.79	13.22	19.07	3.84	18.67	-0.01	0.00	0.25	0.00	0.00
2007	44.00	28.57	17.12	0.00	11.45	14.33	19.07	5.06	16.89	-0.02	0.00	-0.21	0.00	0.00
2008	44.00	31.28	19.19	0.00	12.08	16.74	19.07	4.21	19.51	0.04	0.00	0.28	0.00	0.00
2009	44.00	28.29	16.98	0.00	11.31	13.46	19.07	4.62	16.60	-0.01	0.00	-0.37	0.00	0.00
2010	44.00	32.18	20.33	0.00	11.85	21.88	19.07	8.40	20.70	0.01	0.00	0.35	0.00	0.00
2011	44.00	29.69	17.91	0.00	11.78	16.16	19.07	5.31	18.14	-0.01	0.00	0.24	0.00	0.00
2012	44.00	31.69	19.65	0.00	12.04	16.89	19.07	4.68	19.24	-0.01	0.00	-0.41	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	AEI	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPDRN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	29.75	17.97	0.00	11.78	16.61	19.07	5.29	18.61	0.08	0.00	0.55	0.00	0.00



XD 99-85.a01

SUMMARY OF ANNUAL VALUES FROM SPAW SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Projects\Fields\Dewey July 09\XD 99-85\XD 99-85.spw
File Creation Date : Jul 16, 2009 14:55:48
File Last Modified Date : Jul 16, 2009 14:55:49
Description : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 99-85
Simulation Start Date : Jan 01, 1999
Simulation End Date : Dec 31, 2013
Simulation Run Date : Jul 16, 2009 14:55
SPAW Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 99-85
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Projects\Fields\Dewey July 09\XD 99-85\XD 99-85.fld (Jul 17, 200900:00)
Climate : Dewey Burdock 99-85 climatic data
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Database\Climates\15-yr\99-85.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Database\Climates\Defaults\Dewey-Burdock.evdpd (Aug 23, 2008 00:00)
Precipitation : SD9985 - Jan 01, 1999 to Dec 31, 2013
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Database\Climates\15-yr\99-85.txt (Sep 16, 2008 00:00)
Air Temperature : SD9985 - Jan 01, 1999 to Dec 31, 2013
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Database\Climates\15-yr\99-85.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Dewey TP1, TP2, TP5 Revised Soils Composite
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Database\Soils\DSrev 1-2-5.soil (Sep 16, 2008 00:00)

NUMBER OF SOIL LAYERS: 9

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 4.00 12.00 24.00 4.00 23.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AEI	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPRUN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1999	44.00	27.31	15.40	0.00	11.91	17.17	19.07	5.43	18.90	0.02	0.00	3.47	0.00	0.00
2000	44.04	27.93	15.86	0.00	12.07	14.51	19.07	3.84	17.67	0.51	0.00	1.30	0.00	0.00
2001	44.00	29.44	17.69	0.00	11.75	18.10	19.07	6.40	19.03	0.37	0.00	0.96	0.00	0.00
2002	44.00	29.15	17.52	0.00	11.63	13.11	19.07	3.07	17.48	0.15	0.00	-0.19	0.00	0.00
2003	44.00	29.35	17.44	0.00	11.91	14.69	19.07	3.80	18.06	0.06	0.00	0.55	0.00	0.00
2004	44.04	28.93	17.49	0.00	11.44	12.18	19.07	2.26	17.55	0.08	0.00	-0.02	0.00	0.00
2005	44.00	30.15	18.49	0.00	11.66	20.16	19.07	9.05	18.51	0.07	0.00	-0.05	0.00	0.00
2006	44.00	28.21	16.43	0.00	11.79	13.22	19.07	3.84	16.67	-0.01	0.00	0.25	0.00	0.00
2007	44.00	28.57	17.12	0.00	11.45	14.33	19.07	5.06	16.89	-0.02	0.00	-0.21	0.00	0.00
2008	44.04	31.28	19.19	0.00	12.08	16.74	19.07	4.21	19.51	0.04	0.00	0.28	0.00	0.00
2009	44.00	28.29	16.98	0.00	11.31	13.46	19.07	4.62	16.60	-0.01	0.00	-0.37	0.00	0.00
2010	44.00	32.18	20.33	0.00	11.85	21.88	19.07	8.40	20.70	0.01	0.00	0.35	0.00	0.00
2011	44.00	29.69	17.91	0.00	11.78	16.16	19.07	5.31	18.14	-0.01	0.00	0.24	0.00	0.00
2012	44.04	31.69	19.65	0.00	12.04	16.89	19.07	4.68	19.24	-0.01	0.00	-0.41	0.00	0.00
2013	44.00	28.18	16.56	0.00	11.63	11.75	19.07	2.59	16.60	-0.02	0.00	0.06	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	AEI	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPRUN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	29.37	17.61	0.00	11.76	15.78	19.07	4.84	18.25	0.08	0.00	0.56	0.00	0.00

XD 00-86.anl

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dewey
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 00-86\XD 00-86.spw
File Creation Date : Jul 16, 2009 14:57:19
File Last Modified Date : Jul 16, 2009 14:57:19
Description : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 00-86
Simulation Start Date : Jan 01, 2000
Simulation End Date : Dec 31, 2014
Simulation Run Date : Jul 16, 2009 14:57
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 00-86
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 00-86\XD 00-86.fld (Jul 17, 2009 00:00)
Climate : Dewey Burdock 00-86 climatic data
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\00-86.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evdp (Aug 23, 2008 00:00)
Precipitation : SDO086 - Jan 01, 2000 to Dec 31, 2014
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\00-86.txt (Sep 16, 2008 00:00)
Air Temperature : SDO086 - Jan 01, 2000 to Dec 31, 2014
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\00-86.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Dewey TP1, TP2, TP5 Revised Soils Composite
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Soils\DRav 1-2-5.soil (Sep 16, 2008 00:00)

NUMBER OF SOIL LAYERS: 9

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 4.00 12.00 24.00 4.00 23.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AST	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
2000	44.04	25.91	13.83	0.00	12.07	14.51	19.07	3.82	17.69	0.03	0.00	3.82	0.00	0.00
2001	44.00	28.95	17.21	0.00	11.75	18.10	19.07	6.49	18.94	0.53	0.00	1.20	0.00	0.00
2002	44.00	28.76	17.13	0.00	11.63	13.11	19.07	3.07	17.48	0.28	0.00	0.07	0.00	0.00
2003	44.00	29.13	17.23	0.00	11.91	14.69	19.07	3.80	18.06	0.13	0.00	0.69	0.00	0.00
2004	44.04	28.79	17.35	0.00	11.44	12.18	19.07	2.26	17.55	0.12	0.00	0.07	0.00	0.00
2005	44.00	28.87	18.21	0.00	11.66	20.16	19.07	9.05	18.51	0.16	0.00	0.14	0.00	0.00
2006	44.00	28.20	16.42	0.00	11.78	13.22	19.07	3.84	16.67	-0.01	0.00	0.26	0.00	0.00
2007	44.00	28.56	17.11	0.00	11.45	14.33	19.07	5.06	16.89	-0.02	0.00	-0.21	0.00	0.00
2008	44.04	31.27	19.18	0.00	12.08	16.74	19.07	4.21	19.31	0.04	0.00	0.29	0.00	0.00
2009	44.00	28.29	16.98	0.00	11.31	13.46	19.07	4.62	16.60	-0.01	0.00	-0.37	0.00	0.00
2010	44.00	32.18	20.33	0.00	11.85	21.88	19.07	8.40	20.70	0.01	0.00	0.35	0.00	0.00
2011	44.00	29.69	17.91	0.00	11.78	16.16	19.07	5.31	18.14	-0.01	0.00	0.24	0.00	0.00
2012	44.04	31.69	19.65	0.00	12.04	16.89	19.07	4.68	19.24	-0.01	0.00	-0.41	0.00	0.00
2013	44.00	28.18	16.56	0.00	11.63	11.75	19.07	2.59	16.60	-0.02	0.00	0.06	0.00	0.00
2014	44.00	33.36	21.43	0.00	11.93	23.59	19.07	8.73	22.01	0.03	0.00	0.55	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	AST	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	29.53	17.77	0.00	11.76	16.21	19.07	5.06	18.45	0.08	0.00	0.60	0.00	0.00





XD 01-87.a1

SUMMARY OF ANNUAL VALUES FROM SPAW SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Projects\Fields\Dewey July 09\XD 01-87\XD 01-87.spw
File Creation Date : Jul 16, 2009 14:58:26
File Last Modified Date : Jul 16, 2009 14:58:27
Description : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil: 314.5 acres; 01-87
Simulation Start Date : Jan 01, 2001
Simulation End Date : Dec 31, 2015
Simulation Run Date : Jul 16, 2009 14:58
SPAW Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil: 314.5 acres; 01-87
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Projects\Fields\Dewey July 09\XD 01-87\XD 01-87.fld (Jul 17, 200900:00)
Climate : Dewey Burdock 01-87 climatic data
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Database\Climates\15-yr\01-87.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Database\Climates\Defaults\Dewey-Burdock.evdp (Aug 23, 2008 00:00)
Precipitation : SD0187 - Jan 01, 2001 to Dec 31, 2015
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Database\Climates\15-yr\01-87.txt (Sep 16, 2008 00:00)
Air Temperature : SD0187 - Jan 01, 2001 to Dec 31, 2015
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Database\Climates\15-yr\01-87.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil: 314.5 acres
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Dewey TFL, TP2, TP5 Revised Soils Composite
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Database\Soils\DSRev 1-2-5.soil (Sep 16, 2008 00:00)

NUMBER OF SOIL LAYERS: 9

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 4.00 12.00 24.00 4.00 23.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AEI	EVAP	TRAM	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPRN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
2001	44.00	27.22	15.48	0.00	11.75	18.10	19.07	5.86	19.57	0.02	0.00	4.07	0.00	0.00
2002	44.00	28.26	16.62	0.00	11.63	13.11	19.07	2.87	17.68	0.56	0.00	0.50	0.00	0.00
2003	44.00	29.02	17.11	0.00	11.91	14.69	19.07	3.56	18.30	0.26	0.00	0.92	0.00	0.00
2004	44.04	28.77	17.33	0.00	11.44	12.18	19.07	2.09	17.71	0.18	0.00	0.21	0.00	0.00
2005	44.00	29.80	18.14	0.00	11.66	20.16	19.07	9.05	18.51	0.19	0.00	0.19	0.00	0.00
2006	44.00	28.00	16.21	0.00	11.79	13.22	19.07	4.00	16.51	0.01	0.00	0.29	0.00	0.00
2007	44.00	28.67	17.22	0.00	11.45	14.33	19.07	4.76	17.19	0.04	0.00	-0.07	0.00	0.00
2008	44.04	31.32	19.24	0.00	12.08	16.74	19.07	4.21	19.51	0.02	0.00	0.25	0.00	0.00
2009	44.00	28.29	16.98	0.00	11.31	13.46	19.07	4.62	16.60	-0.01	0.00	-0.37	0.00	0.00
2010	44.00	32.18	20.33	0.00	11.85	21.88	19.07	8.48	20.70	0.01	0.00	0.35	0.00	0.00
2011	44.00	29.69	17.91	0.00	11.78	16.16	19.07	5.31	18.14	-0.01	0.00	0.24	0.00	0.00
2012	44.04	31.69	19.65	0.00	12.04	16.89	19.07	4.68	19.24	-0.01	0.00	-0.41	0.00	0.00
2013	44.00	28.18	16.56	0.00	11.63	11.75	19.07	2.59	16.60	-0.02	0.00	0.06	0.00	0.00
2014	44.00	33.36	21.43	0.00	11.93	23.59	19.07	8.73	22.01	0.03	0.00	0.55	0.00	0.00
2015	44.00	29.83	17.96	0.00	11.87	12.36	19.07	2.37	17.18	-0.02	0.00	-0.76	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	AEI	EVAP	TRAM	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPRN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	29.63	17.88	0.00	11.75	16.13	19.07	4.87	18.58	0.08	0.00	0.61	0.00	0.00



SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

XD 02-88.sml

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 02-88\XD 02-88.spm
File Creation Date : Jul 14, 2009 14:22:30
File Last Modified Date : Jul 14, 2009 14:22:31
Description : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 02-88
Simulation Start Date : Jan 01, 2002
Simulation End Date : Dec 31, 2016
Simulation Run Date : Jul 14, 2009 14:22
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 02-88
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 02-88\XD 02-88.fld (Jul 15, 2009 00:00)
Climate : Dewey Burdock 02-88 climatic data
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\02-88.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evdpd (Aug 23, 2008 00:00)
Precipitation : SD0288 - Jan 01, 2002 to Dec 31, 2016
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\02-88.txt (Sep 16, 2008 00:00)
Air Temperature : SD0288 - Jan 01, 2002 to Dec 31, 2016
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\02-88.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Dewey TP1, TP2, TP5 Revised Soils Composite
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Soils\DNev 1-2-5.soil (Sep 16, 2008 00:00)

NUMBER OF SOIL LAYERS:

9

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 4.00 12.00 24.00 4.00 23.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AET	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
2002	44.00	26.11	14.47	0.00	11.63	13.11	19.07	2.65	17.89	-0.04	0.00	3.46	0.00	0.00
2003	44.00	28.44	16.54	0.00	11.91	14.69	19.07	3.45	18.41	0.55	0.00	1.33	0.00	0.00
2004	44.04	29.39	16.95	0.00	11.44	12.18	19.07	2.09	17.71	0.30	0.00	0.47	0.00	0.00
2005	44.00	29.61	17.95	0.00	11.66	20.16	19.07	9.05	18.51	0.25	0.00	0.32	0.00	0.00
2006	44.00	28.01	16.22	0.00	11.79	13.22	19.07	3.87	16.64	0.04	0.00	0.37	0.00	0.00
2007	44.00	28.40	16.95	0.00	11.45	14.33	19.07	5.06	16.89	0.03	0.00	-0.09	0.00	0.00
2008	44.04	30.98	18.90	0.00	12.08	16.74	19.07	4.19	19.54	0.14	0.00	0.50	0.00	0.00
2009	44.00	29.28	16.97	0.00	11.31	13.46	19.07	4.62	16.60	-0.01	0.00	-0.36	0.00	0.00
2010	44.00	32.18	20.33	0.00	11.85	21.88	19.07	8.40	20.70	0.01	0.00	0.35	0.00	0.00
2011	44.00	29.69	17.91	0.00	11.78	16.16	19.07	5.31	18.14	-0.01	0.00	0.24	0.00	0.00
2012	44.04	31.69	19.65	0.00	12.04	16.89	19.07	4.68	19.24	-0.01	0.00	-0.41	0.00	0.00
2013	44.00	28.18	16.56	0.00	11.63	11.75	19.07	2.59	16.60	-0.02	0.00	0.06	0.00	0.00
2014	44.00	33.36	21.43	0.00	11.93	23.59	19.07	8.73	22.01	0.03	0.00	0.55	0.00	0.00
2015	44.00	29.83	17.96	0.00	11.87	12.36	19.07	2.37	17.18	-0.02	0.00	-0.76	0.00	0.00
2016	44.04	28.20	16.39	0.00	11.81	13.79	19.07	4.63	16.41	0.00	0.00	0.02	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	AET	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	29.43	17.68	0.00	11.75	15.78	19.07	4.78	18.31	0.08	0.00	0.55	0.00	0.00



XD 03-89.anl

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 03-89\XD 03-89.spw
File Creation Date : Jul 16, 2009 15:02:02
File Last Modified Date : Jul 16, 2009 15:02:03
Description : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 03-89
Simulation Start Date : Jan 01, 2003
Simulation End Date : Dec 31, 2017
Simulation Run Date : Jul 16, 2009 15:02
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 03-89
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 03-89\XD 03-89.fld (Jul 17, 200900:00)
Climate : Dewey Burdock 03-89 climatic data
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\03-89.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evdpd (Aug 23, 2008 00:00)
Precipitation : SD0289 - Jan 01, 2003 to Dec 31, 2017
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\03-89.txt (Sep 16, 2008 00:00)
Air Temperature : SD0289 - Jan 01, 2003 to Dec 31, 2017
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\03-89.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Dewey TP1, TP2, TP5 Revised Soils Composite
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Soils\DRew 1-2-5.soil (Sep 16, 2008 00:00)

NUMBER OF SOIL LAYERS: 9

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 4.00 12.00 24.00 4.00 23.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	ACT	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPERM	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
2003	44.00	26.68	14.78	0.00	11.91	14.69	19.07	3.07	18.79	0.05	0.00	3.96	0.00	0.00
2004	44.04	27.86	16.42	0.00	11.44	12.18	19.07	2.09	17.71	0.50	0.00	0.79	0.00	0.00
2005	44.00	29.38	17.72	0.00	11.66	20.16	19.07	9.05	18.51	0.33	0.00	0.46	0.00	0.00
2006	44.00	27.90	16.11	0.00	11.79	13.22	19.07	3.84	16.47	0.09	0.00	0.47	0.00	0.00
2007	44.00	28.47	17.02	0.00	11.45	14.33	19.07	4.76	17.19	0.11	0.00	0.07	0.00	0.00
2008	44.04	30.85	18.76	0.00	12.08	16.74	19.07	4.19	19.54	0.19	0.00	0.59	0.00	0.00
2009	44.00	28.28	16.97	0.00	11.31	13.46	19.07	4.62	16.60	-0.01	0.00	-0.36	0.00	0.00
2010	44.00	32.18	20.33	0.00	11.85	21.88	19.07	8.40	20.70	0.01	0.00	0.35	0.00	0.00
2011	44.00	29.69	17.91	0.00	11.78	16.16	19.07	5.31	18.14	-0.01	0.00	0.24	0.00	0.00
2012	44.04	31.69	19.65	0.00	12.04	16.99	19.07	4.68	19.24	-0.01	0.00	-0.41	0.00	0.00
2013	44.00	28.18	16.56	0.00	11.63	11.75	19.07	2.59	16.60	-0.02	0.00	0.06	0.00	0.00
2014	44.00	33.36	21.43	0.00	11.93	23.59	19.07	8.73	22.01	0.03	0.00	0.55	0.00	0.00
2015	44.00	29.83	17.96	0.00	11.87	12.36	19.07	2.37	17.18	-0.02	0.00	-0.76	0.00	0.00
2016	44.04	28.20	16.39	0.00	11.81	13.79	19.07	4.63	16.41	0.00	0.00	0.02	0.00	0.00
2017	44.00	29.51	17.66	0.00	11.85	15.58	19.07	4.75	18.06	0.01	0.00	0.38	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	ACT	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPERM	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	29.48	17.71	0.00	11.77	15.94	19.07	4.87	18.37	0.09	0.00	0.57	0.00	0.00



XD 04-90.snl

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 04-90\XD 04-90.snw
File Creation Date : Jul 16, 2009 15:03:20
File Last Modified Date : Jul 16, 2009 15:03:21
Description : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 04-90
Simulation Start Date : Jan 01, 2004
Simulation End Date : Dec 31, 2018
Simulation Run Date : Jul 16, 2009 15:03
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 04-90
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 04-90\XD 04-90.fld (Jul 17, 200900:00)
Climate : Dewey Burdock 04-90 climatic data
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\04-90.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD0490 - Jan 01, 2004 to Dec 31, 2018
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\04-90.txt (Sep 16, 2008 00:00)
Air Temperature : SD0490 - Jan 01, 2004 to Dec 31, 2018
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\04-90.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Dewey TP1, TP2, TP5 Revised Soils Composite
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Soils\DRew 1-2-5.soil (Sep 16, 2008 00:00)

NUMBER OF SOIL LAYERS: 9

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 4.00 12.00 24.00 4.00 23.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AET	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPRN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
2004	44.04	25.69	14.27	0.00	11.42	12.16	19.07	1.89	17.91	-0.05	0.00	3.70	0.00	0.00
2005	44.00	29.01	17.34	0.00	11.66	20.16	19.07	8.79	18.78	0.60	0.00	0.83	0.00	0.00
2006	44.00	27.49	15.70	0.00	11.79	13.22	19.07	3.84	16.67	0.23	0.00	0.74	0.00	0.00
2007	44.00	28.28	16.83	0.00	11.45	14.33	19.07	4.76	17.19	0.16	0.00	0.20	0.00	0.00
2008	44.04	30.49	18.40	0.00	12.08	16.74	19.07	4.12	19.60	0.33	0.00	0.87	0.00	0.00
2009	44.00	28.27	16.95	0.00	11.31	13.46	19.07	4.62	16.60	0.00	0.00	-0.35	0.00	0.00
2010	44.00	32.18	20.33	0.00	11.85	21.88	19.07	8.40	20.70	0.01	0.00	0.35	0.00	0.00
2011	44.00	29.69	17.91	0.00	11.78	16.16	19.07	5.31	18.14	-0.01	0.00	0.24	0.00	0.00
2012	44.04	31.69	19.65	0.00	12.04	16.89	19.07	4.68	19.24	-0.01	0.00	-0.41	0.00	0.00
2013	44.00	28.18	16.56	0.00	11.63	11.75	19.07	2.59	16.60	-0.02	0.00	0.06	0.00	0.00
2014	44.00	33.36	21.43	0.00	11.93	23.59	19.07	8.73	22.01	0.03	0.00	0.45	0.00	0.00
2015	44.00	29.83	17.96	0.00	11.87	12.36	19.07	2.37	17.18	-0.02	0.00	-0.76	0.00	0.00
2016	44.04	28.20	16.39	0.00	11.81	13.79	19.07	4.63	16.41	0.00	0.00	0.02	0.00	0.00
2017	44.00	29.51	17.66	0.00	11.85	15.98	19.07	4.75	18.06	0.01	0.00	0.38	0.00	0.00
2018	44.00	31.45	19.79	0.00	11.65	19.14	19.07	6.93	19.63	0.00	0.00	-0.16	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	AET	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPRN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	29.56	17.81	0.00	11.75	16.24	19.07	5.09	18.46	0.08	0.00	0.56	0.00	0.00



XD 05-91.a1

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 05-91\XD 05-91.spw
File Creation Date : Jul 16, 2009 15:04:21
File Last Modified Date : Jul 16, 2009 15:04:22
Description : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 05-91
Simulation Start Date : Jan 01, 2005
Simulation End Date : Dec 31, 2019
Simulation Run Date : Jul 16, 2009 15:04
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 05-91
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 05-91\XD 05-91.fld (Jul 17, 200900:00)
Climate : Dewey Burdock 05-91 climatic data
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\05-91.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evdp (Aug 23, 2008 00:00)
Precipitation : SD0591 - Jan 01, 2005 to Dec 31, 2019
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\05-91.txt (Sep 16, 2008 00:00)
Air Temperature : SD0591 - Jan 01, 2005 to Dec 31, 2019
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\05-91.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Dewey TP1, TP2, TP3 Revised Soils Composite
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Soils\DRw 1-2-5.soil (Sep 16, 2008 00:00)

NUMBER OF SOIL LAYERS: 9

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 4.00 12.00 24.00 4.00 23.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AEI	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DESPDN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
2005	44.00	27.57	15.91	0.00	11.66	20.16	19.07	7.95	19.62	0.05	0.00	3.66	0.00	0.00
2006	44.00	26.92	15.13	0.00	11.79	13.22	19.07	3.84	16.67	0.47	0.00	1.07	0.00	0.00
2007	44.00	28.08	16.63	0.00	11.45	14.33	19.07	4.56	17.39	0.29	0.00	0.47	0.00	0.00
2008	44.04	30.19	18.10	0.00	12.08	16.74	19.07	4.19	19.54	0.41	0.00	1.03	0.00	0.00
2009	44.00	28.21	16.90	0.00	11.31	13.46	19.07	4.62	16.60	0.01	0.00	-0.31	0.00	0.00
2010	44.00	31.99	20.15	0.00	11.85	21.98	19.07	8.53	20.58	0.04	0.00	0.39	0.00	0.00
2011	44.00	29.65	17.87	0.00	11.78	16.16	19.07	5.31	18.14	0.00	0.00	0.27	0.00	0.00
2012	44.04	31.69	19.65	0.00	12.04	16.89	19.07	4.68	19.24	-0.01	0.00	-0.40	0.00	0.00
2013	44.00	28.18	16.56	0.00	11.63	11.75	19.07	2.59	16.60	-0.02	0.00	0.06	0.00	0.00
2014	44.00	33.36	21.43	0.00	11.93	23.59	19.07	8.73	22.01	0.03	0.00	0.55	0.00	0.00
2015	44.00	29.83	17.96	0.00	11.87	12.36	19.07	2.37	17.18	-0.02	0.00	-0.76	0.00	0.00
2016	44.04	28.20	16.39	0.00	11.81	13.79	19.07	4.63	16.41	0.00	0.00	0.02	0.00	0.00
2017	44.00	29.51	17.66	0.00	11.85	15.58	19.07	4.75	18.06	0.01	0.00	0.38	0.00	0.00
2018	44.00	31.45	19.79	0.00	11.65	19.14	19.07	6.93	19.63	0.00	0.00	-0.16	0.00	0.00
2019	44.00	29.24	17.32	0.00	11.92	15.03	19.07	4.53	17.65	0.00	0.00	0.34	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	AEI	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DESPDN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	29.61	17.83	0.00	11.78	16.27	19.07	5.21	18.35	0.08	0.00	0.44	0.00	0.00



XD 06-92.sml

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 06-92\XD 06-92.spw
File Creation Date : Jul 16, 2009 15:03:26
File Last Modified Date : Jul 16, 2009 15:03:27
Description : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 06-92
Simulation Start Date : Jan 01, 2006
Simulation End Date : Dec 31, 2020
Simulation Run Date : Jul 16, 2009 15:05
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 06-92
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 06-92\XD 06-92.fld (Jul 17, 200900:00)
Climate : Dewey Burdock 06-92 climatic data
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\06-92.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD0692 - Jan 01, 2006 to Dec 31, 2020
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\06-92.txt (Sep 16, 2008 00:00)
Air Temperature : SD0692 - Jan 01, 2006 to Dec 31, 2020
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\06-92.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Dewey TP1, TP2, TP5 Revised Soils Composite
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Soils\DREV 1-2-5.soil (Sep 16, 2008 00:00)

NUMBER OF SOIL LAYERS: 9

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 4.00 12.00 24.00 4.00 23.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AST	EVAP	TRAW	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPRDN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
2006	44.00	25.31	13.57	0.00	11.75	13.13	19.07	3.23	17.22	-0.05	0.00	3.71	0.00	0.00
2007	44.00	27.58	16.13	0.00	11.45	14.33	19.07	4.44	17.51	0.54	0.00	0.93	0.00	0.00
2008	44.04	30.01	17.93	0.00	12.08	16.74	19.07	4.19	19.54	0.47	0.00	1.14	0.00	0.00
2009	44.00	27.97	16.65	0.00	11.31	13.46	19.07	4.62	16.60	0.09	0.00	-0.14	0.00	0.00
2010	44.00	31.59	19.74	0.00	11.85	21.88	19.07	8.47	20.63	0.20	0.00	0.69	0.00	0.00
2011	44.00	29.57	17.79	0.00	11.78	16.16	19.07	5.30	18.15	0.02	0.00	0.34	0.00	0.00
2012	44.04	31.68	19.64	0.00	12.04	16.89	19.07	4.68	19.24	-0.01	0.00	-0.40	0.00	0.00
2013	44.00	28.18	16.56	0.00	11.63	11.75	19.07	2.59	16.60	-0.02	0.00	0.06	0.00	0.00
2014	44.00	33.36	21.43	0.00	11.93	23.59	19.07	8.73	22.01	0.03	0.00	0.53	0.00	0.00
2015	44.00	29.83	17.96	0.00	11.87	12.36	19.07	2.37	17.18	-0.02	0.00	-0.76	0.00	0.00
2016	44.04	28.20	16.39	0.00	11.81	13.79	19.07	4.63	16.41	0.00	0.00	0.02	0.00	0.00
2017	44.00	29.51	17.66	0.00	11.85	15.58	19.07	4.75	18.06	0.01	0.00	0.38	0.00	0.00
2018	44.00	31.45	19.79	0.00	11.65	19.14	19.07	6.93	19.63	0.00	0.00	-0.16	0.00	0.00
2019	44.00	29.24	17.32	0.00	11.92	15.03	19.07	4.53	17.65	0.00	0.00	0.34	0.00	0.00
2020	44.04	29.28	17.64	0.00	11.63	14.08	19.07	4.34	17.18	-0.01	0.00	-0.45	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	AST	EVAP	TRAW	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPRDN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	29.53	17.76	0.00	11.77	15.86	19.07	4.92	18.24	0.08	0.00	0.40	0.00	0.00



XD 07-93.enl

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 07-93\XD 07-93.spw
File Creation Date : Jul 13, 2009 09:46:30
File Last Modified Date : Jul 13, 2009 09:46:30
Description : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 07-93
Simulation Start Date : Jan 01, 2007
Simulation End Date : Dec 31, 2021
Simulation Run Date : Jul 13, 2009 09:46
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Dewey-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 07-93
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Dewey July 09\XD 07-93\XD 07-93.fld (Jul 13, 2009 00:00)
Climate : Dewey Burdock 07-93 climatic data
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\07-93.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evdpd (Aug 23, 2008 00:00)
Precipitation : SD0793 - Jan 01, 2007 to Dec 31, 2021
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\07-93.txt (Sep 16, 2008 00:00)
Air Temperature : SD0793 - Jan 01, 2007 to Dec 31, 2021
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\07-93.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Dewey TP1, TP2, TP3 Revised Soils Composite
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Soils\DRex 1-2-3.soil (Sep 16, 2008 00:00)

NUMBER OF SOIL LAYERS: 9

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 4.00 12.00 24.00 4.00 23.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	ACT	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
2007	44.00	25.45	14.00	0.00	11.45	14.33	19.07	4.44	17.51	-0.07	0.00	3.58	0.00	0.00
2008	44.04	29.73	17.64	0.00	12.08	16.74	19.07	4.12	19.60	0.65	0.00	1.31	0.00	0.00
2009	44.00	27.60	16.29	0.00	11.31	13.46	19.07	4.50	16.72	0.25	0.00	0.19	0.00	0.00
2010	44.00	31.47	19.62	0.00	11.85	21.88	19.07	8.55	20.55	0.21	0.00	0.72	0.00	0.00
2011	44.00	29.33	17.54	0.00	11.78	16.16	19.07	5.30	18.15	0.11	0.00	0.50	0.00	0.00
2012	44.04	31.48	19.44	0.00	12.04	16.89	19.07	4.49	19.43	0.12	0.00	-0.13	0.00	0.00
2013	44.00	28.18	16.55	0.00	11.63	11.75	19.07	2.59	16.60	-0.02	0.00	0.07	0.00	0.00
2014	44.00	33.40	21.47	0.00	11.93	23.59	19.07	8.67	22.07	0.03	0.00	0.56	0.00	0.00
2015	44.00	29.84	17.97	0.00	11.87	12.36	19.07	2.37	17.18	-0.02	0.00	-0.77	0.00	0.00
2016	44.04	28.20	16.39	0.00	11.81	13.79	19.07	4.63	16.41	0.00	0.00	0.02	0.00	0.00
2017	44.00	29.51	17.66	0.00	11.85	15.58	19.07	4.75	18.06	0.01	0.00	0.38	0.00	0.00
2018	44.00	31.45	19.79	0.00	11.65	19.14	19.07	6.93	19.63	0.00	0.00	-0.16	0.00	0.00
2019	44.00	29.24	17.32	0.00	11.92	15.03	19.07	4.53	17.65	0.00	0.00	0.34	0.00	0.00
2020	44.04	29.28	17.64	0.00	11.63	14.08	19.07	4.34	17.18	-0.01	0.00	-0.45	0.00	0.00
2021	44.00	32.92	20.93	0.00	11.99	22.31	19.07	7.70	21.69	0.01	0.00	0.75	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	ACT	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	29.81	18.03	0.00	11.79	16.47	19.07	5.19	18.56	0.09	0.00	0.45	0.00	0.00

SPAW Model Results

Burdock Field



XB 80-94.a1

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 80-94\XB 80-94.spw
File Creation Date : Jul 09, 2009 14:51:24
File Last Modified Date : Jul 09, 2009 14:51:25
Description : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 80-94
Simulation Start Date : Jan 01, 1980
Simulation End Date : Dec 31, 1994
Simulation Run Date : Jul 09, 2009 14:51
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 80-94
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 80-94\XB 80-94.fld (Jul 10, 2009 00:00)
Climate : Dewey Burdock 81-94 climatic data
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\80-94.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD8094 - Jan 01, 1980 to Dec 31, 1994
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\80-94.txt (Sep 15, 2008 00:00)
Air Temperature : SD8094 - Jan 01, 1980 to Dec 31, 1994
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\80-94.txt (Sep 15, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Burdock TP8, TP9, TP10 Revised Soils Composite
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Soils\BR8v 8-9-10.soil (Jun 23, 2009 00:00)

NUMBER OF SOIL LAYERS:

THICKNESS OF SOIL LAYERS: (IN) 7 1.00 5.00 11.00 11.00 8.00 12.00 24.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AET	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPERC	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1990	44.04	25.41	13.40	0.00	12.01	16.33	19.07	3.80	19.59	1.45	0.00	4.74	0.00	0.00
1991	44.00	27.06	15.74	0.00	11.31	13.46	19.07	4.20	17.02	0.41	0.00	0.87	0.00	0.00
1992	44.00	33.78	21.93	0.00	11.85	21.88	19.07	6.77	22.33	0.08	0.00	0.31	0.00	0.00
1993	44.00	30.63	18.84	0.00	11.78	16.16	19.07	4.66	18.79	-0.03	0.00	-0.03	0.00	0.00
1994	44.04	32.65	20.61	0.00	12.04	16.89	19.07	3.56	20.36	-0.06	0.00	-0.18	0.00	0.00
1995	44.00	28.16	16.53	0.00	11.63	11.75	19.07	2.57	16.62	0.01	0.00	0.08	0.00	0.00
1996	44.00	35.08	23.16	0.00	11.93	23.59	19.07	7.33	23.41	0.10	0.00	0.15	0.00	0.00
1997	44.00	29.71	17.84	0.00	11.87	12.36	19.07	2.28	17.27	-0.15	0.00	-0.41	0.00	0.00
1998	44.04	28.55	16.74	0.00	11.81	13.79	19.07	4.28	16.76	-0.01	0.00	0.03	0.00	0.00
1999	44.00	29.93	18.08	0.00	11.85	15.58	19.07	4.14	18.67	0.10	0.00	0.49	0.00	0.00
1990	44.00	31.85	20.19	0.00	11.65	19.14	19.07	6.58	19.97	0.00	0.00	-0.23	0.00	0.00
1991	44.00	29.32	17.60	0.00	11.92	15.03	19.07	4.59	17.59	-0.03	0.00	0.02	0.00	0.00
1992	44.04	30.27	18.64	0.00	11.63	14.08	19.07	3.06	18.46	-0.04	0.00	-0.14	0.00	0.00
1993	44.00	33.76	21.77	0.00	11.99	22.31	19.07	6.86	22.53	0.11	0.00	0.66	0.00	0.00
1994	44.00	29.49	17.58	0.00	11.92	12.01	19.07	2.04	17.12	-0.03	0.00	-0.43	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	AET	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPERC	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	30.39	18.58	0.00	11.81	16.29	19.07	4.45	19.10	0.13	0.00	0.39	0.00	0.00

XB 81-95.aui

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 81-95\XB 81-95.spw
File Creation Date : Jul 09, 2009 15:05:31
File Last Modified Date : Jul 09, 2009 15:05:32
Description : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 81-95
Simulation Start Date : Jan 01, 1981
Simulation End Date : Dec 31, 1995
Simulation Run Date : Jul 09, 2009 15:05
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 81-95
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 81-95\XB 81-95.fid (Jul 10, 200900:00)
Climate : Dewey-Burdock 81-95 climatic data
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\81-95.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evdpd (Aug 23, 2008 00:00)
Precipitation : SD8195 - Jan 01, 1981 to Dec 31, 1995
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\81-95.txt (Sep 16, 2008 00:00)
Air Temperature : SD8195 - Jan 01, 1981 to Dec 31, 1995
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\81-95.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare seedbed or fallow field
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Burdock T90, T99, T910 Revised Soils Composite
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Soils\BRev 8-9-10.soil (Jun 23, 2009 00:00)

NUMBER OF SOIL LAYERS:

7

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 8.00 12.00 24.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET in	ACT in	EVAP in	TRAN in	INT in	PRECIP in	IRRIG in	RUNOFF in	INFIL in	PERC in	DEEPPDN in	DLT-SM in	STRESS	YLDRED
1981	44.00	24.01	12.70	0.00	11.31	13.46	19.07	4.20	17.02	0.88	0.00	3.44	0.00	0.00
1982	44.00	32.11	20.26	0.00	11.85	21.88	19.07	5.32	23.79	1.06	0.00	2.47	0.00	0.00
1983	44.00	30.62	18.84	0.00	11.78	16.16	19.07	4.66	18.79	-0.02	0.00	-0.03	0.00	0.00
1984	44.04	32.65	20.61	0.00	12.04	16.89	19.07	3.56	20.36	-0.06	0.00	-0.18	0.00	0.00
1985	44.00	28.16	16.53	0.00	11.43	11.75	19.07	2.57	16.62	0.01	0.00	0.08	0.00	0.00
1986	44.00	35.08	23.16	0.00	11.93	23.59	19.07	7.33	23.41	0.10	0.00	0.15	0.00	0.00
1987	44.00	29.71	17.84	0.00	11.87	12.36	19.07	2.28	17.27	-0.15	0.00	-0.41	0.00	0.00
1988	44.04	28.55	16.74	0.00	11.81	13.79	19.07	4.28	16.76	-0.01	0.00	0.03	0.00	0.00
1989	44.00	29.93	18.08	0.00	11.85	15.58	19.07	4.14	18.67	0.10	0.00	0.49	0.00	0.00
1990	44.00	31.85	20.19	0.00	11.65	19.14	19.07	6.58	19.97	0.00	0.00	-0.23	0.00	0.00
1991	44.00	29.52	17.60	0.00	11.92	15.03	19.07	4.59	17.59	-0.03	0.00	0.02	0.00	0.00
1992	44.04	30.27	18.64	0.00	11.43	14.08	19.07	3.06	18.46	-0.04	0.00	-0.14	0.00	0.00
1993	44.00	33.76	21.77	0.00	11.99	22.31	19.07	6.86	22.53	0.11	0.00	0.66	0.00	0.00
1994	44.00	29.49	17.58	0.00	11.92	12.01	19.07	2.04	17.12	-0.03	0.00	-0.43	0.00	0.00
1995	44.00	32.59	20.78	0.00	11.81	18.32	19.07	4.81	20.78	0.02	0.00	-0.02	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET in	ACT in	EVAP in	TRAN in	INT in	PRECIP in	IRRIG in	RUNOFF in	INFIL in	PERC in	DEEPPDN in	DLT-SM in	STRESS	YLDRED
44.04	30.56	18.76	0.00	11.80	16.42	19.07	4.42	19.28	0.13	0.00	0.39	0.00	0.00





XB 82-96.ani

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 82-96\XB 82-96.spw
File Creation Date : Jul 09, 2009 16:09:52
File Last Modified Date : Jul 09, 2009 16:09:53
Description : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 82-96
Simulation Start Date : Jan 01, 1982
Simulation End Date : Dec 31, 1996
Simulation Run Date : Jul 09, 2009 16:09
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 82-96
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 82-96\XB 82-96.fld (Jul 10, 200900:00)
Climate : Dewey Burdock 82-96 climatic data
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\82-96.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD8296 - Jan 01, 1982 to Dec 31, 1996
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\82-96.txt (Sep 16, 2008 00:00)
Air Temperature : SD8296 - Jan 01, 1982 to Dec 31, 1996
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\82-96.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Burdock TP8, TP9, TP10 Revised Soils Composite
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Soils\BRev 8-9-10.soil (Jun 23, 2009 00:00)

NUMBER OF SOIL LAYERS: 7

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 8.00 12.00 24.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AEI	EVAP	TRAM	INT	PRECIP	IRRAIG	RUNOFF	INFIL	PERC	DEEPPERM	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1982	44.00	27.91	16.09	0.00	11.81	21.83	19.07	5.32	23.77	1.89	0.00	5.79	0.00	0.00
1983	44.00	30.46	18.68	0.00	11.78	16.16	19.07	4.65	18.80	0.02	0.00	0.10	0.00	0.00
1984	44.00	32.65	20.61	0.00	12.04	16.89	19.07	3.56	20.36	-0.06	0.00	-0.18	0.00	0.00
1985	44.00	28.16	16.53	0.00	11.63	11.75	19.07	2.57	16.62	0.01	0.00	0.08	0.00	0.00
1986	44.00	35.08	23.16	0.00	11.93	23.59	19.07	7.33	23.41	0.10	0.00	0.15	0.00	0.00
1987	44.00	29.71	17.84	0.00	11.87	12.36	19.07	2.28	17.27	-0.13	0.00	-0.41	0.00	0.00
1988	44.00	28.55	16.74	0.00	11.81	13.79	19.07	4.28	16.76	-0.01	0.00	0.03	0.00	0.00
1989	44.00	29.93	18.08	0.00	11.85	15.58	19.07	4.14	18.67	0.10	0.00	0.49	0.00	0.00
1990	44.00	31.85	20.19	0.00	11.65	19.14	19.07	6.58	19.97	0.00	0.00	-0.23	0.00	0.00
1991	44.00	29.52	17.60	0.00	11.92	15.03	19.07	4.59	17.59	-0.03	0.00	0.02	0.00	0.00
1992	44.00	30.27	18.64	0.00	11.63	14.08	19.07	3.06	18.46	-0.04	0.00	-0.14	0.00	0.00
1993	44.00	33.76	21.77	0.00	11.99	22.31	19.07	6.86	22.53	0.11	0.00	0.66	0.00	0.00
1994	44.00	29.49	17.58	0.00	11.92	12.01	19.07	2.04	17.12	-0.03	0.00	-0.43	0.00	0.00
1995	44.00	32.59	20.78	0.00	11.81	18.32	19.07	4.81	20.78	0.02	0.00	-0.02	0.00	0.00
1996	44.00	31.74	19.99	0.00	11.74	17.60	19.07	4.70	20.23	-0.01	0.00	0.24	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	AEI	EVAP	TRAM	INT	PRECIP	IRRAIG	RUNOFF	INFIL	PERC	DEEPPERM	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	30.78	18.96	0.00	11.83	16.70	19.07	4.45	19.49	0.13	0.00	0.40	0.00	0.00



XB 83-97.anl

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 83-97\XB 83-97.spw
File Creation Date : Jul 09, 2009 17:41:33
File Last Modified Date : Jul 09, 2009 17:41:33
Description : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 83-97
Simulation Start Date : Jan 01, 1983
Simulation End Date : Dec 31, 1997
Simulation Run Date : Jul 09, 2009 17:41
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 83-97
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 83-97\XB 83-97.fld (Jul 10, 2009 00:00)
Climate : Dewey Burdock 83-97 climatic data
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\83-97.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD8397 - Jan 01, 1983 to Dec 31, 1997
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\83-97.txt (Sep 16, 2008 00:00)
Air Temperature : SD8397 - Jan 01, 1983 to Dec 31, 1997
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\83-97.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Burdock TPS, TP9, TP10 Revised Soils Composite
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Soils\ERev 8-9-10.soil (Jun 23, 2009 00:00)

NUMBER OF SOIL LAYERS: 7

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 8.00 12.00 24.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET in	AET in	EVAP in	TRAM in	INT in	PRECIP in	IRRIG in	RUNOFF in	INFIL in	PERC in	DEEPPERM in	DLT-SM in	STRESS	YLDRED
1983	44.00	25.39	13.69	0.00	11.70	16.08	19.07	4.45	19.00	1.10	0.00	4.21	0.00	0.00
1984	44.04	30.62	18.58	0.00	12.04	16.89	19.07	3.11	20.81	0.74	0.00	1.49	0.00	0.00
1985	44.00	28.14	16.51	0.00	11.63	11.75	19.07	2.57	16.62	0.01	0.00	0.10	0.00	0.00
1986	44.00	35.08	23.16	0.00	11.93	23.59	19.07	7.33	23.41	0.10	0.00	0.15	0.00	0.00
1987	44.00	29.71	17.84	0.00	11.87	12.36	19.07	2.28	17.27	-0.15	0.00	-0.41	0.00	0.00
1988	44.04	28.55	16.74	0.00	11.81	13.79	19.07	4.28	16.76	-0.01	0.00	0.03	0.00	0.00
1989	44.00	29.93	18.08	0.00	11.85	15.58	19.07	4.14	18.67	0.10	0.00	0.49	0.00	0.00
1990	44.00	31.85	20.19	0.00	11.65	19.14	19.07	6.58	19.97	0.00	0.00	-0.23	0.00	0.00
1991	44.00	29.52	17.60	0.00	11.92	15.03	19.07	4.59	17.59	-0.03	0.00	0.02	0.00	0.00
1992	44.04	30.27	18.64	0.00	11.63	14.08	19.07	3.06	18.46	-0.04	0.00	-0.14	0.00	0.00
1993	44.00	33.76	21.77	0.00	11.99	22.31	19.07	6.86	22.53	0.11	0.00	0.66	0.00	0.00
1994	44.00	29.49	17.58	0.00	11.92	12.01	19.07	2.04	17.12	-0.03	0.00	-0.43	0.00	0.00
1995	44.00	32.59	20.78	0.00	11.81	18.32	19.07	4.81	20.78	0.02	0.00	-0.02	0.00	0.00
1996	44.04	31.74	19.99	0.00	11.74	17.60	19.07	4.70	20.23	-0.01	0.00	0.24	0.00	0.00
1997	44.00	32.11	20.57	0.00	11.54	17.73	19.07	5.02	20.24	-0.05	0.00	-0.28	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

	PET in	AET in	EVAP in	TRAM in	INT in	PRECIP in	IRRIG in	RUNOFF in	INFIL in	PERC in	DEEPPERM in	DLT-SM in	STRESS	YLDRED
	44.04	30.59	18.79	0.00	11.80	16.42	19.07	4.39	19.30	0.13	0.00	0.39	0.00	0.00



XB 84-98.aul

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 84-98\XB 84-98.spw
File Creation Date : Jul 10, 2009 08:32:26
File Last Modified Date : Jul 10, 2009 08:54:19
Description : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 84-98
Simulation Start Date : Jan 01, 1984
Simulation End Date : Dec 31, 1998
Simulation Run Date : Jul 10, 2009 08:54
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 84-98
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 84-98\XB 84-98.fld (Jul 10, 200900:00)
Climate : Dewey Burdock 84-98 climatic data
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\84-98.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD6498 - Jan 01, 1984 to Dec 31, 1998
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\84-98.txt (Sep 16, 2008 00:00)
Air Temperature : SD6498 - Jan 01, 1984 to Dec 31, 1998
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\84-98.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Burdock TP8, TP9, TP10 Revised Soils Composite
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Soils\BRev 8-9-10.soil (Jun 23, 2009 00:00)

NUMBER OF SOIL LAYERS:

7

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 8.00 12.00 24.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	RET	EVAP	TRAW	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPORW	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1984	44.04	26.06	14.25	0.00	11.81	15.65	19.07	3.11	19.79	1.28	0.00	4.27	0.00	0.00
1985	44.00	26.20	14.57	0.00	11.63	11.75	19.07	2.57	16.62	0.56	0.00	1.49	0.00	0.00
1986	44.00	35.03	23.10	0.00	11.93	23.59	19.07	7.32	23.41	0.12	0.00	0.19	0.00	0.00
1987	44.00	29.71	17.84	0.00	11.87	12.36	19.07	2.28	17.27	-0.15	0.00	-0.41	0.00	0.00
1988	44.04	28.55	16.74	0.00	11.81	13.79	19.07	4.28	16.76	-0.01	0.00	0.03	0.00	0.00
1989	44.00	29.93	18.08	0.00	11.85	15.58	19.07	4.14	18.67	0.10	0.00	0.49	0.00	0.00
1990	44.00	31.85	20.19	0.00	11.65	19.14	19.07	6.58	19.97	0.00	0.00	-0.23	0.00	0.00
1991	44.00	29.52	17.60	0.00	11.92	15.03	19.07	4.59	17.59	-0.03	0.00	0.02	0.00	0.00
1992	44.04	30.27	18.64	0.00	11.63	14.08	19.07	3.06	18.46	-0.04	0.00	-0.14	0.00	0.00
1993	44.00	33.76	21.77	0.00	11.99	22.31	19.07	6.86	22.53	0.11	0.00	0.66	0.00	0.00
1994	44.00	29.49	17.58	0.00	11.92	12.01	19.07	2.04	17.12	-0.03	0.00	-0.43	0.00	0.00
1995	44.00	32.59	20.78	0.00	11.81	18.32	19.07	4.81	20.78	0.02	0.00	-0.02	0.00	0.00
1996	44.04	31.74	19.99	0.00	11.74	17.60	19.07	4.70	20.23	-0.01	0.00	0.24	0.00	0.00
1997	44.00	32.11	20.57	0.00	11.54	17.73	19.07	5.02	20.24	-0.05	0.00	-0.28	0.00	0.00
1998	44.00	34.14	22.18	0.00	11.96	24.28	19.07	8.76	22.63	0.14	0.00	0.31	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	RET	EVAP	TRAW	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPORW	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	30.73	18.93	0.00	11.80	16.88	19.07	4.68	19.47	0.13	0.00	0.41	0.00	0.00



XB 85-99.aul

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 85-99\XB 85-99.spw
File Creation Date : Jul 10, 2009 09:12:34
File Last Modified Date : Jul 10, 2009 09:12:35
Description : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 85-99
Simulation Start Date : Jan 01, 1985
Simulation End Date : Dec 31, 1999
Simulation Run Date : Jul 10, 2009 09:12
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 85-99
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 85-99\XB 85-99.fld (Jul 10, 200900:00)
Climate : Dewey-Burdock 85-99 climatic data
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\85-99.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evdpd (Aug 23, 2008 00:00)
Precipitation : SD8599 - Jan 01, 1985 to Dec 31, 1999
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\85-99.txt (Sep 16, 2008 00:00)
Air Temperature : SD8599 - Jan 01, 1985 to Dec 31, 1999
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\85-99.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Burdock TP8, TP9, TP10 Revised Soils Composite
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Soils\BRev 8-9-10.soil (Jun 23, 2009 00:00)

NUMBER OF SOIL LAYERS:

7

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 8.00 12.00 24.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	ART	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1985	44.00	24.45	12.83	0.00	11.63	11.75	19.07	2.57	16.62	0.65	0.00	3.14	0.00	0.00
1986	44.00	31.39	19.46	0.00	11.93	23.59	19.07	7.16	23.57	1.30	0.00	2.81	0.00	0.00
1987	44.00	29.71	17.83	0.00	11.87	12.36	19.07	2.28	17.27	-0.15	0.00	-0.41	0.00	0.00
1988	44.04	28.55	16.74	0.00	11.81	13.79	19.07	4.28	16.76	-0.01	0.00	0.03	0.00	0.00
1989	44.00	29.93	18.08	0.00	11.85	15.58	19.07	4.14	18.67	0.10	0.00	0.49	0.00	0.00
1990	44.00	31.85	20.19	0.00	11.65	19.14	19.07	6.58	19.97	0.00	0.00	-0.23	0.00	0.00
1991	44.00	29.52	17.60	0.00	11.92	15.03	19.07	4.59	17.59	-0.03	0.00	0.02	0.00	0.00
1992	44.04	30.27	18.64	0.00	11.63	14.08	19.07	3.06	18.46	-0.04	0.00	-0.14	0.00	0.00
1993	44.00	33.76	21.77	0.00	11.99	22.31	19.07	6.86	22.53	0.11	0.00	0.66	0.00	0.00
1994	44.00	29.49	17.58	0.00	11.92	12.01	19.07	2.04	17.12	-0.03	0.00	-0.43	0.00	0.00
1995	44.00	32.59	20.78	0.00	11.81	18.32	19.07	4.81	20.78	0.02	0.00	-0.02	0.00	0.00
1996	44.04	31.74	19.99	0.00	11.74	17.60	19.07	4.70	20.23	-0.01	0.00	0.24	0.00	0.00
1997	44.00	32.11	20.57	0.00	11.54	17.73	19.07	5.02	20.24	-0.05	0.00	-0.28	0.00	0.00
1998	44.00	34.14	22.18	0.00	11.96	24.28	19.07	8.76	22.63	0.14	0.00	0.31	0.00	0.00
1999	44.00	31.54	19.62	0.00	11.91	17.17	19.07	5.57	18.75	-0.18	0.00	-0.69	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	ART	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	30.74	18.93	0.00	11.81	16.98	19.07	4.83	19.41	0.12	0.00	0.36	0.00	0.00

XB 86-00.aul

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 86-00\XB 86-00.spw
File Creation Date : Jul 10, 2009 09:22:47
File Last Modified Date : Jul 10, 2009 09:22:48
Description : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil: 314.5 acres; 86-00
Simulation Start Date : Jan 01, 1986
Simulation End Date : Dec 31, 2000
Simulation Run Date : Jul 10, 2009 09:22
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil: 314.5 acres; 86-00
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 86-00\XB 86-00.fld (Jul 10, 200900:00)
Climate : Dewey Burdock 86-00 climatic data
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\86-00.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD6600 - Jan 01, 1986 to Dec 31, 2000
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\86-00.txt (Feb 13, 2009 00:00)
Air Temperature : SD6600 - Jan 01, 1986 to Dec 31, 2000
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\86-00.txt (Feb 13, 2009 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil: 314.5 acres
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Burdock TP6, TP9, TP10 Revised Soils Composite
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Soils\BRev 8-9-10.soil (Jun 23, 2009 00:00)

NUMBER OF SOIL LAYERS: 7

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 8.00 12.00 24.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AST	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1986	44.00	26.83	13.07	0.00	11.76	22.03	19.07	6.92	22.42	1.77	0.00	5.58	0.00	0.00
1987	44.00	29.21	17.33	0.00	11.87	12.36	19.07	2.23	17.32	0.04	0.00	-0.05	0.00	0.00
1988	44.04	28.55	16.74	0.00	11.81	13.79	19.07	4.28	16.76	-0.01	0.00	0.03	0.00	0.00
1989	44.00	29.93	18.08	0.00	11.85	15.58	19.07	4.14	18.67	0.10	0.00	0.49	0.00	0.00
1990	44.00	31.85	20.19	0.00	11.65	19.14	19.07	6.58	19.97	0.00	0.00	-0.23	0.00	0.00
1991	44.00	29.52	17.60	0.00	11.92	15.03	19.07	4.59	17.59	-0.03	0.00	0.02	0.00	0.00
1992	44.04	30.27	18.64	0.00	11.63	14.08	19.07	3.06	18.46	-0.04	0.00	-0.14	0.00	0.00
1993	44.00	33.76	21.77	0.00	11.99	22.31	19.07	6.86	22.53	0.11	0.00	0.66	0.00	0.00
1994	44.00	29.49	17.58	0.00	11.92	12.01	19.07	2.04	17.12	-0.03	0.00	-0.43	0.00	0.00
1995	44.00	32.59	20.78	0.00	11.81	18.32	19.07	4.81	20.78	0.02	0.00	-0.02	0.00	0.00
1996	44.04	31.74	19.99	0.00	11.74	17.60	19.07	4.70	20.23	-0.01	0.00	0.24	0.00	0.00
1997	44.00	32.11	20.57	0.00	11.54	17.73	19.07	5.02	20.24	-0.05	0.00	-0.28	0.00	0.00
1998	44.00	34.14	22.18	0.00	11.96	24.28	19.07	8.76	22.63	0.14	0.00	0.31	0.00	0.00
1999	44.00	31.54	19.62	0.00	11.91	17.17	19.07	5.57	18.75	-0.18	0.00	-0.69	0.00	0.00
2000	44.04	29.37	17.30	0.00	12.07	14.51	19.07	3.82	17.69	0.04	0.00	0.35	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	AST	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	30.74	18.91	0.00	11.83	17.06	19.07	4.89	19.41	0.13	0.00	0.38	0.00	0.00





XB 87-01.a1

SUMMARY OF ANNUAL VALUES FROM SPAW SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 87-01\XB 87-01.spw
File Creation Date : Jul 10, 2009 09:33:48
File Last Modified Date : Jul 10, 2009 09:33:48
Description : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 87-01
Simulation Start Date : Jan 01, 1987
Simulation End Date : Dec 31, 2001
Simulation Run Date : Jul 10, 2009 09:33
SPAW Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 87-01
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 87-01\XB 87-01.fld (Jul 10, 2009 00:00)
Climate : Dewey Burdock 87-01 climatic data
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Database\Climates\15-yr\87-01.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD8701 - Jan 01, 1987 to Dec 31, 2001
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Database\Climates\15-yr\87-01.txt (Sep 16, 2008 00:00)
Air Temperature : SD8701 - Jan 01, 1987 to Dec 31, 2001
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Database\Climates\15-yr\87-01.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Burdock TP8, TP9, TP10 Revised Soils Composite
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Database\Soils\BRev 8-9-10.soil (Jun 23, 2009 00:00)

NUMBER OF SOIL LAYERS: 7

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 8.00 12.00 24.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AEI	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPRDN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1987	44.00	24.78	12.91	0.00	11.87	12.36	19.07	2.13	17.43	0.96	0.00	3.55	0.00	0.00
1988	44.04	25.87	14.06	0.00	11.81	13.79	19.07	4.23	16.81	0.81	0.00	1.94	0.00	0.00
1989	44.00	29.84	17.99	0.00	11.85	15.58	19.07	4.14	18.67	0.12	0.00	0.35	0.00	0.00
1990	44.00	31.85	20.19	0.00	11.65	19.14	19.07	6.58	19.97	0.00	0.00	-0.23	0.00	0.00
1991	44.00	29.32	17.60	0.00	11.92	15.03	19.07	4.59	17.59	-0.03	0.00	0.02	0.00	0.00
1992	44.04	30.27	18.64	0.00	11.63	14.08	19.07	3.06	18.46	-0.04	0.00	-0.14	0.00	0.00
1993	44.00	33.76	21.77	0.00	11.99	22.31	19.07	6.86	22.53	0.11	0.00	0.66	0.00	0.00
1994	44.00	29.49	17.58	0.00	11.92	12.01	19.07	2.04	17.12	-0.03	0.00	-0.43	0.00	0.00
1995	44.00	32.59	20.78	0.00	11.81	18.32	19.07	4.81	20.78	0.02	0.00	-0.02	0.00	0.00
1996	44.04	31.74	19.99	0.00	11.74	17.60	19.07	4.70	20.23	-0.01	0.00	0.24	0.00	0.00
1997	44.00	32.11	20.57	0.00	11.54	17.73	19.07	5.02	20.24	-0.05	0.00	-0.28	0.00	0.00
1998	44.00	34.14	22.18	0.00	11.96	24.28	19.07	8.76	22.63	0.14	0.00	0.31	0.00	0.00
1999	44.00	31.54	19.62	0.00	11.91	17.17	19.07	5.57	18.75	-0.18	0.00	-0.69	0.00	0.00
2000	44.04	29.37	17.30	0.00	12.07	14.51	19.07	3.82	17.69	0.04	0.00	0.35	0.00	0.00
2001	44.00	30.91	19.16	0.00	11.75	18.10	19.07	6.25	19.18	0.01	0.00	0.01	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	AEI	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPRDN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	30.53	18.70	0.00	11.83	16.80	19.07	4.84	19.21	0.13	0.00	0.38	0.00	0.00



SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

XB 88-02.aul

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 88-02\XB 88-02.spw
File Creation Date : Jul 10, 2009 09:43:39
File Last Modified Date : Jul 10, 2009 09:43:40
Description : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 88-02
Simulation Start Date : Jan 01, 1988
Simulation End Date : Dec 31, 2002
Simulation Run Date : Jul 10, 2009 09:43
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 88-02
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 88-02\XB 88-02.fld (Jul 10, 2009 00:00)
Climate : Dewey Burdock 88-02 climatic data
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\88-02.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD8802 - Jan 01, 1988 to Dec 31, 2002
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\88-02.txt (Sep 16, 2008 00:00)
Air Temperature : SD8802 - Jan 01, 1988 to Dec 31, 2002
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\88-02.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Burdock TP8, TP9, TP10 Revised Soils Composite
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Soils\BRev 8-9-10.soil (Jun 23, 2009 00:00)

NUMBER OF SOIL LAYERS:

7

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 8.00 12.00 24.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AEI	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1988	44.04	23.68	11.88	0.00	11.80	13.40	19.07	4.23	16.43	1.00	0.00	3.55	0.00	0.00
1989	44.00	27.29	15.44	0.00	11.85	15.58	19.07	4.01	18.80	0.88	0.00	2.47	0.00	0.00
1990	44.00	31.82	20.16	0.00	11.63	19.14	19.07	6.58	19.98	0.01	0.00	-0.20	0.00	0.00
1991	44.00	29.52	17.60	0.00	11.92	15.03	19.07	4.59	17.59	-0.03	0.00	0.02	0.00	0.00
1992	44.04	30.27	18.64	0.00	11.63	14.08	19.07	3.06	18.46	-0.04	0.00	-0.14	0.00	0.00
1993	44.00	33.76	21.77	0.00	11.99	22.31	19.07	6.86	22.53	0.11	0.00	0.66	0.00	0.00
1994	44.00	29.49	17.58	0.00	11.92	12.01	19.07	2.04	17.12	-0.03	0.00	-0.43	0.00	0.00
1995	44.00	32.59	20.78	0.00	11.81	18.32	19.07	4.81	20.78	0.02	0.00	-0.02	0.00	0.00
1996	44.04	31.74	19.99	0.00	11.74	17.60	19.07	4.70	20.23	-0.01	0.00	0.24	0.00	0.00
1997	44.00	32.11	20.57	0.00	11.54	17.73	19.07	5.02	20.24	-0.05	0.00	-0.28	0.00	0.00
1998	44.00	34.14	22.18	0.00	11.96	24.28	19.07	8.76	22.63	0.14	0.00	0.31	0.00	0.00
1999	44.00	31.54	19.62	0.00	11.91	17.17	19.07	5.57	18.75	-0.18	0.00	-0.69	0.00	0.00
2000	44.04	29.37	17.30	0.00	12.07	14.51	19.07	3.82	17.68	0.04	0.00	0.35	0.00	0.00
2001	44.00	30.91	19.16	0.00	11.75	18.10	19.07	6.25	19.18	0.01	0.00	0.01	0.00	0.00
2002	44.00	29.77	18.13	0.00	11.63	13.11	19.07	2.65	17.90	-0.01	0.00	-0.22	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	AEI	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	30.54	18.73	0.00	11.81	16.82	19.07	4.86	19.22	0.12	0.00	0.37	0.00	0.00

XB 89-03.a1

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 89-03\XB 89-03.spw
File Creation Date : Jul 10, 2009 10:05:17
File Last Modified Date : Jul 10, 2009 10:05:18
Description : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 89-03
Simulation Start Date : Jan 01, 1989
Simulation End Date : Dec 31, 2003
Simulation Run Date : Jul 10, 2009 10:05
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 89-03
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 89-03\XB 89-03.fld (Jul 10, 200900:00)
Climate : Dewey Burdock 89-03 climatic data
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\89-03.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD8903 - Jan 01, 1989 to Dec 31, 2003
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\89-03.txt (Sep 16, 2008 00:00)
Air Temperature : SD8903 - Jan 01, 1989 to Dec 31, 2003
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\89-03.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Burdock TP8, TP9, TP10 Revised Soils Composite
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Soils\BREV 8-9-10.soil (Jun 23, 2009 00:00)

NUMBER OF SOIL LAYERS: 7

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 8.00 12.00 24.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AET	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPERM	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1989	44.00	24.99	13.19	0.00	11.80	15.49	19.07	4.01	18.75	1.20	0.00	4.36	0.00	0.00
1990	44.00	30.59	18.93	0.00	11.65	19.14	19.07	5.46	21.10	0.70	0.00	1.47	0.00	0.00
1991	44.00	29.51	17.60	0.00	11.92	15.03	19.07	4.59	17.59	-0.03	0.00	0.02	0.00	0.00
1992	44.04	30.27	18.64	0.00	11.63	14.08	19.07	3.06	18.46	-0.04	0.00	-0.14	0.00	0.00
1993	44.00	33.76	21.77	0.00	11.99	22.31	19.07	6.86	22.53	0.11	0.00	0.66	0.00	0.00
1994	44.00	29.49	17.58	0.00	11.92	12.01	19.07	2.04	17.12	-0.03	0.00	-0.43	0.00	0.00
1995	44.00	32.59	20.78	0.00	11.81	18.32	19.07	4.81	20.78	0.02	0.00	-0.02	0.00	0.00
1996	44.04	31.74	19.99	0.00	11.74	17.60	19.07	4.70	20.23	-0.01	0.00	0.24	0.00	0.00
1997	44.00	32.11	20.57	0.00	11.54	17.73	19.07	5.02	20.24	-0.05	0.00	-0.28	0.00	0.00
1998	44.00	34.14	22.18	0.00	11.96	24.28	19.07	8.76	22.63	0.14	0.00	0.31	0.00	0.00
1999	44.00	31.54	19.62	0.00	11.91	17.17	19.07	5.57	18.75	-0.18	0.00	-0.69	0.00	0.00
2000	44.04	29.37	17.30	0.00	12.07	14.51	19.07	3.82	17.69	0.04	0.00	0.35	0.00	0.00
2001	44.00	30.91	19.16	0.00	11.75	18.10	19.07	6.25	19.18	0.01	0.00	0.01	0.00	0.00
2002	44.00	29.77	18.13	0.00	11.63	13.11	19.07	2.65	17.90	-0.01	0.00	-0.22	0.00	0.00
2003	44.00	30.46	18.55	0.00	11.91	14.69	19.07	3.07	18.79	0.02	0.00	0.22	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

	PET	AET	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPERM	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
	44.04	30.76	18.95	0.00	11.82	16.90	19.07	4.71	19.45	0.13	0.00	0.38	0.00	0.00



XB 90-04.anl

SUMMARY OF ANNUAL VALUES FROM SPAW SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\08 Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 90-04\XB 90-04.spw
File Creation Date : Jul 09, 2009 13:18:59
File Last Modified Date : Jul 09, 2009 13:19:00
Description : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 90-04
Simulation Start Date : Jan 01, 1990
Simulation End Date : Dec 31, 2004
Simulation Run Date : Jul 09, 2009 13:18
SPAW Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 90-04
G:\102\00279.02\Data Info\08 Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 90-04\XB 90-04.fld (Jul 10, 200900:00)
Climate : Dewey Burdock 90-04 climatic data
G:\102\00279.02\Data Info\08 Land Application-Irrigation\SPAW Model\Database\Climates\15-yr\90-04.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\08 Land Application-Irrigation\SPAW Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD9004 - Jan 01, 1990 to Dec 31, 2004
G:\102\00279.02\Data Info\08 Land Application-Irrigation\SPAW Model\Database\Climates\15-yr\90-04.txt (Sep 16, 2008 00:00)
Air Temperature : SD9004 - Jan 01, 1990 to Dec 31, 2004
G:\102\00279.02\Data Info\08 Land Application-Irrigation\SPAW Model\Database\Climates\15-yr\90-04.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\08 Land Application-Irrigation\SPAW Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\08 Land Application-Irrigation\SPAW Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Burdock TP8, TP9, TP10 Revised Soils Composite
G:\102\00279.02\Data Info\08 Land Application-Irrigation\SPAW Model\Database\Soils\HRav 8-9-10.soil (Jun 23, 2009 00:00)

NUMBER OF SOIL LAYERS: 7

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 8.00 12.00 24.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AET	EVAP	TRAW	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1990	44.00	25.98	14.36	0.00	11.62	19.11	19.07	8.25	21.31	1.68	0.00	5.26	0.00	0.00
1991	44.00	29.10	17.18	0.00	11.92	15.03	19.07	4.23	17.95	0.19	0.00	0.58	0.00	0.00
1992	44.00	30.27	18.64	0.00	11.63	14.08	19.07	3.06	18.46	-0.04	0.00	-0.14	0.00	0.00
1993	44.00	33.76	21.77	0.00	11.99	22.31	19.07	6.86	22.53	0.11	0.00	0.66	0.00	0.00
1994	44.00	29.49	17.58	0.00	11.92	12.01	19.07	2.04	17.12	-0.03	0.00	-0.43	0.00	0.00
1995	44.00	32.59	20.78	0.00	11.81	18.32	19.07	4.81	20.78	0.02	0.00	-0.02	0.00	0.00
1996	44.00	31.74	19.99	0.00	11.74	17.60	19.07	4.70	20.23	-0.01	0.00	0.24	0.00	0.00
1997	44.00	32.11	20.57	0.00	11.54	17.73	19.07	5.02	20.24	-0.05	0.00	-0.28	0.00	0.00
1998	44.00	34.14	22.18	0.00	11.96	24.28	19.07	8.76	22.63	0.14	0.00	0.31	0.00	0.00
1999	44.00	31.54	19.62	0.00	11.91	17.17	19.07	5.57	18.75	-0.18	0.00	-0.69	0.00	0.00
2000	44.00	29.37	17.30	0.00	12.07	14.51	19.07	3.82	17.69	0.04	0.00	0.35	0.00	0.00
2001	44.00	30.91	19.16	0.00	11.75	18.10	19.07	6.25	19.18	0.01	0.00	0.01	0.00	0.00
2002	44.00	29.77	18.13	0.00	11.63	13.11	19.07	2.65	17.90	-0.01	0.00	-0.22	0.00	0.00
2003	44.00	30.46	18.55	0.00	11.91	14.69	19.07	3.07	18.79	0.02	0.00	0.22	0.00	0.00
2004	44.00	29.36	17.92	0.00	11.44	12.18	19.07	1.89	17.91	0.01	0.00	-0.02	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

	PET	AET	EVAP	TRAW	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
	44.04	30.72	18.92	0.00	11.80	16.84	19.07	4.53	19.58	0.13	0.00	0.53	0.00	0.00





XB 91-05.anl

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 91-05\XB 91-05.spw
File Creation Date : Jul 10, 2009 10:17:32
File Last Modified Date : Jul 10, 2009 10:17:32
Description : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 91-05
Simulation Start Date : Jan 01, 1991
Simulation End Date : Dec 31, 2005
Simulation Run Date : Jul 10, 2009 10:17
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 91-05
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 91-05\XB 91-05.fld (Jul 10, 200900:00)
Climate : Dewey Burdock 91-05 climatic data
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\91-05.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD9105 - Jan 01, 1991 to Dec 31, 2005
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\91-05.txt (Sep 16, 2008 00:00)
Air Temperature : SD9105 - Jan 01, 1991 to Dec 31, 2005
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\91-05.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Burdock TP8, TP9, TP10 Revised Soils Composite
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Soils\BRev 8-9-10.soil (Jun 23, 2009 00:00)

NUMBER OF SOIL LAYERS: 7

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 8.00 12.00 24.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AET	EVAP	TRAM	INT	PRECIP	IRRG	RUNOFF	INFIL	PERC	DEEPRUN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1991	44.00	24.81	12.93	0.00	11.88	14.99	19.07	3.33	18.85	1.34	0.00	4.58	0.00	0.00
1992	44.04	28.63	17.00	0.00	11.63	14.08	19.07	2.92	18.60	0.49	0.00	1.11	0.00	0.00
1993	44.00	33.76	21.77	0.00	11.99	22.31	19.07	6.84	22.56	0.11	0.00	0.87	0.00	0.00
1994	44.00	29.49	17.58	0.00	11.92	12.01	19.07	2.04	17.12	-0.03	0.00	-0.43	0.00	0.00
1995	44.00	32.59	20.78	0.00	11.81	18.32	19.07	4.81	20.78	0.02	0.00	-0.02	0.00	0.00
1996	44.04	31.74	19.99	0.00	11.74	17.60	19.07	4.70	20.23	-0.01	0.00	0.24	0.00	0.00
1997	44.00	32.11	20.57	0.00	11.54	17.73	19.07	5.02	20.24	-0.05	0.00	-0.28	0.00	0.00
1998	44.00	34.14	22.18	0.00	11.96	24.28	19.07	8.76	22.63	0.14	0.00	0.31	0.00	0.00
1999	44.00	31.54	19.62	0.00	11.91	17.17	19.07	5.57	18.75	-0.18	0.00	-0.69	0.00	0.00
2000	44.04	29.37	17.30	0.00	12.07	14.51	19.07	3.82	17.69	0.04	0.00	0.35	0.00	0.00
2001	44.00	30.91	19.16	0.00	11.75	18.10	19.07	6.25	19.18	0.01	0.00	0.01	0.00	0.00
2002	44.00	29.77	18.13	0.00	11.63	13.11	19.07	2.65	17.90	-0.01	0.00	-0.22	0.00	0.00
2003	44.00	30.46	18.55	0.00	11.91	14.69	19.07	3.07	18.79	0.02	0.00	0.22	0.00	0.00
2004	44.04	29.36	17.92	0.00	11.44	12.18	19.07	1.89	17.91	0.01	0.00	-0.02	0.00	0.00
2005	44.00	31.17	19.51	0.00	11.66	20.16	19.07	8.29	19.27	-0.05	0.00	-0.19	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	AET	EVAP	TRAM	INT	PRECIP	IRRG	RUNOFF	INFIL	PERC	DEEPRUN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	30.67	18.87	0.00	11.80	16.90	19.07	4.66	19.51	0.12	0.00	0.52	0.00	0.00

XB 92-06.aul

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 92-06\XB 92-06.spw
File Creation Date : Jul 10, 2009 10:30:21
File Last Modified Date : Jul 10, 2009 10:30:21
Description : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 92-06
Simulation Start Date : Jan 01, 1992
Simulation End Date : Dec 31, 2006
Simulation Run Date : Jul 10, 2009 10:30
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 92-06
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 92-06\XB 92-06.fld (Jul 10, 200900:00)
Climate : Dewey Burdock 92-06 climatic data
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\92-06.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD9206 - Jan 01, 1992 to Dec 31, 2006
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\92-06.txt (Sep 16, 2008 00:00)
Air Temperature : SD9206 - Jan 01, 1992 to Dec 31, 2006
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\92-06.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Management\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Burdock TFS, TFS, TP10 Revised Soils Composite
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Soils\BRev 8-9-10.soil (Jun 23, 2009 00:00)

NUMBER OF SOIL LAYERS: 7

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 8.00 12.00 24.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AST	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPERM	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1992	44.04	24.81	13.18	0.00	11.63	14.08	19.07	2.92	18.60	1.24	0.00	4.17	0.00	0.00
1993	44.00	32.48	20.49	0.00	11.99	22.31	19.07	6.01	23.38	0.70	0.00	2.19	0.00	0.00
1994	44.00	29.49	17.58	0.00	11.92	12.01	19.07	2.04	17.12	-0.02	0.00	-0.43	0.00	0.00
1995	44.00	32.59	20.78	0.00	11.81	18.32	19.07	4.81	20.78	0.02	0.00	-0.02	0.00	0.00
1996	44.04	31.74	19.99	0.00	11.74	17.60	19.07	4.70	20.23	-0.01	0.00	0.24	0.00	0.00
1997	44.00	32.11	20.57	0.00	11.54	17.73	19.07	5.02	20.24	-0.05	0.00	-0.28	0.00	0.00
1998	44.00	34.14	22.18	0.00	11.96	24.28	19.07	8.76	22.63	0.14	0.00	0.31	0.00	0.00
1999	44.00	31.54	19.62	0.00	11.91	17.17	19.07	5.57	18.75	-0.18	0.00	-0.69	0.00	0.00
2000	44.04	29.37	17.30	0.00	12.07	14.51	19.07	3.82	17.69	0.04	0.00	0.35	0.00	0.00
2001	44.00	30.91	19.16	0.00	11.75	18.10	19.07	6.25	19.18	0.01	0.00	0.01	0.00	0.00
2002	44.00	29.77	18.13	0.00	11.63	13.11	19.07	2.65	17.90	-0.01	0.00	-0.22	0.00	0.00
2003	44.00	30.46	18.55	0.00	11.91	14.69	19.07	3.07	18.79	0.02	0.00	0.22	0.00	0.00
2004	44.04	29.36	17.92	0.00	11.44	12.18	19.07	1.89	17.91	0.01	0.00	-0.02	0.00	0.00
2005	44.00	31.17	19.51	0.00	11.66	20.16	19.07	8.29	19.27	-0.05	0.00	-0.19	0.00	0.00
2006	44.00	28.68	16.89	0.00	11.79	13.22	19.07	3.32	17.18	0.01	0.00	0.28	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

	PET	AST	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPERM	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
	44.04	30.59	18.80	0.00	11.79	16.79	19.07	4.61	19.46	0.12	0.00	0.54	0.00	0.00





XB 93-07.anl

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 93-07\XB 93-07.spw
File Creation Date : Jul 10, 2009 10:39:20
File Last Modified Date : Jul 10, 2009 10:39:20
Description : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 93-07
Simulation Start Date : Jan 01, 1993
Simulation End Date : Dec 31, 2007
Simulation Run Date : Jul 10, 2009 10:39
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 93-07
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 93-07\XB 93-07.fld (Jul 10, 2009 00:00)
Climate : Dewey Burdock 93-07 climatic data
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\93-07.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD9307 - Jan 01, 1993 to Dec 31, 2007
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\93-07.txt (Sep 16, 2008 00:00)
Air Temperature : SD9307 - Jan 01, 1993 to Dec 31, 2007
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\93-07.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Burdock TP8, TP9, TP10 Revised Soils Composite
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Soils\BRev 8-9-10.soil (Jun 23, 2009 00:00)

NUMBER OF SOIL LAYERS:

7

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 8.00 12.00 24.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AEI	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1993	44.00	27.37	15.43	0.00	11.95	21.44	19.07	5.31	23.26	1.78	0.00	6.05	0.00	0.00
1994	44.00	29.02	17.10	0.00	11.92	12.01	19.07	2.04	17.12	0.13	0.00	-0.12	0.00	0.00
1995	44.00	32.58	20.78	0.00	11.81	18.32	19.07	4.81	20.78	0.02	0.00	-0.02	0.00	0.00
1996	44.04	31.74	19.99	0.00	11.74	17.60	19.07	4.70	20.23	-0.01	0.00	0.24	0.00	0.00
1997	44.00	32.11	20.57	0.00	11.54	17.73	19.07	5.02	20.24	-0.05	0.00	-0.28	0.00	0.00
1998	44.00	34.14	22.18	0.00	11.96	24.28	19.07	8.76	22.63	0.14	0.00	0.31	0.00	0.00
1999	44.00	31.94	19.62	0.00	11.91	17.17	19.07	5.57	18.75	-0.18	0.00	-0.69	0.00	0.00
2000	44.04	29.37	17.30	0.00	12.07	14.51	19.07	3.82	17.69	0.04	0.00	0.35	0.00	0.00
2001	44.00	30.91	19.16	0.00	11.75	18.10	19.07	6.25	19.18	0.01	0.00	0.01	0.00	0.00
2002	44.00	29.77	18.13	0.00	11.63	13.11	19.07	2.65	17.90	-0.01	0.00	-0.22	0.00	0.00
2003	44.00	30.46	18.55	0.00	11.91	14.69	19.07	3.07	18.79	0.02	0.00	0.22	0.00	0.00
2004	44.04	29.36	17.92	0.00	11.44	12.18	19.07	1.89	17.91	0.01	0.00	-0.02	0.00	0.00
2005	44.00	31.17	19.51	0.00	11.66	20.16	19.07	8.29	19.27	-0.05	0.00	-0.19	0.00	0.00
2006	44.00	28.68	16.89	0.00	11.79	13.22	19.07	3.32	17.18	0.01	0.00	0.28	0.00	0.00
2007	44.00	29.09	17.64	0.00	11.45	14.33	19.07	4.44	17.51	0.03	0.00	-0.16	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	AEI	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	30.51	18.73	0.00	11.78	16.82	19.07	4.66	19.44	0.13	0.00	0.59	0.00	0.00



XB 94-80.ani

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 94-80\XB 94-80.spw
File Creation Date : Jul 10, 2009 10:51:44
File Last Modified Date : Jul 10, 2009 10:51:45
Description : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 94-80
Simulation Start Date : Jan 01, 1994
Simulation End Date : Dec 31, 2008
Simulation Run Date : Jul 10, 2009 10:51
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 94-80
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 94-80\XB 94-80.fld (Jul 10, 200900:00)
Climate : Dewey Burdock 94-80 climatic data
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\94-80.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD9480 - Jan 01, 1994 to Dec 31, 2008
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\94-80.txt (Sep 16, 2008 00:00)
Air Temperature : SD9480 - Jan 01, 1994 to Dec 31, 2008
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\94-80.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare seedlot or fallow field
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Burdock TP8, TP9, TP10 Revised Soils Composite
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Soils\ERav 8-9-10.soil (Jun 23, 2009 00:00)

NUMBER OF SOIL LAYERS: 7

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 8.00 12.00 24.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AST	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPERM	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1994	44.00	24.52	12.61	0.00	11.92	12.01	19.07	2.04	17.12	0.79	0.00	3.72	0.00	0.00
1995	44.00	30.36	18.55	0.00	11.81	18.32	19.07	3.71	21.87	1.14	0.00	2.18	0.00	0.00
1996	44.00	31.72	19.98	0.00	11.74	17.60	19.07	4.70	20.23	-0.01	0.00	0.25	0.00	0.00
1997	44.00	32.11	20.37	0.00	11.54	17.73	19.07	5.02	20.24	-0.05	0.00	-0.28	0.00	0.00
1998	44.00	34.14	22.18	0.00	11.96	24.28	19.07	8.76	22.63	0.14	0.00	0.31	0.00	0.00
1999	44.00	31.54	19.62	0.00	11.91	17.17	19.07	5.57	18.75	-0.18	0.00	-0.69	0.00	0.00
2000	44.00	29.37	17.30	0.00	12.07	14.51	19.07	3.82	17.69	0.04	0.00	0.35	0.00	0.00
2001	44.00	30.91	19.16	0.00	11.75	18.10	19.07	6.25	19.18	0.01	0.00	0.01	0.00	0.00
2002	44.00	29.77	18.13	0.00	11.63	13.11	19.07	2.65	17.90	-0.01	0.00	-0.22	0.00	0.00
2003	44.00	30.46	18.55	0.00	11.91	14.69	19.07	3.07	18.79	0.02	0.00	0.22	0.00	0.00
2004	44.00	29.36	17.92	0.00	11.44	12.18	19.07	1.89	17.91	0.01	0.00	-0.02	0.00	0.00
2005	44.00	31.17	19.51	0.00	11.66	20.16	19.07	8.29	19.27	-0.05	0.00	-0.19	0.00	0.00
2006	44.00	28.68	16.89	0.00	11.79	13.22	19.07	3.32	17.18	0.01	0.00	0.28	0.00	0.00
2007	44.00	29.09	17.64	0.00	11.45	14.33	19.07	4.44	17.51	0.03	0.00	-0.16	0.00	0.00
2008	44.00	30.81	18.73	0.00	12.08	16.74	19.07	4.92	18.80	0.00	0.00	0.08	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	AST	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPERM	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	30.28	18.49	0.00	11.79	16.43	19.07	4.56	19.15	0.13	0.00	0.53	0.00	0.00



XB 95-81.aul

SUMMARY OF ANNUAL VALUES FROM SPAW SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 95-81\XB 95-81.spw
File Creation Date : Jul 10, 2009 11:04:03
File Last Modified Date : Jul 10, 2009 11:04:04
Description : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 95-81
Simulation Start Date : Jan 01, 1995
Simulation End Date : Dec 31, 2009
Simulation Run Date : Jul 10, 2009 11:04
SPAW Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 95-81
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 95-81\XB 95-81.fld (Jul 10, 200900:00)
Climate : Dewey Burdock 95-81 climatic data
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Database\Climates\15-yr\95-81.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD9581 - Jan 01, 1995 to Dec 31, 2009
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Database\Climates\15-yr\95-81.txt (Sep 16, 2008 00:00)
Air Temperature : SD9581 - Jan 01, 1995 to Dec 31, 2009
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Database\Climates\15-yr\95-81.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Burdock TP8, TP9, TP10 Revised Soils Composite
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAW Model\Database\Soils\BRev 8-9-10.scil (Jun 23, 2009 00:00)

NUMBER OF SOIL LAYERS:

7
THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 8.00 12.00 24.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AEI	EVAP	TRAM	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPRN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1995	44.00	26.88	15.09	0.00	11.79	18.14	19.07	3.71	21.71	1.59	0.00	5.03	0.00	0.00
1996	44.04	30.95	19.20	0.00	11.74	17.60	19.07	4.26	20.66	0.33	0.00	1.13	0.00	0.00
1997	44.00	32.11	20.57	0.00	11.54	17.73	19.07	5.01	20.24	-0.05	0.00	-0.28	0.00	0.00
1998	44.00	34.14	22.18	0.00	11.96	24.28	19.07	8.76	22.63	0.14	0.00	0.31	0.00	0.00
1999	44.00	31.54	19.62	0.00	11.91	17.17	19.07	5.57	18.75	-0.18	0.00	-0.69	0.00	0.00
2000	44.04	29.37	17.30	0.00	12.07	14.51	19.07	3.82	17.69	0.04	0.00	0.35	0.00	0.00
2001	44.00	30.91	19.16	0.00	11.75	18.10	19.07	6.25	19.18	0.01	0.00	0.01	0.00	0.00
2002	44.00	29.77	18.13	0.00	11.63	13.11	19.07	2.65	17.90	-0.01	0.00	-0.22	0.00	0.00
2003	44.00	30.46	18.55	0.00	11.91	14.69	19.07	3.07	18.79	0.02	0.00	0.22	0.00	0.00
2004	44.04	29.36	17.92	0.00	11.44	12.18	19.07	1.89	17.91	0.01	0.00	-0.02	0.00	0.00
2005	44.00	31.17	19.51	0.00	11.66	20.16	19.07	8.29	19.27	-0.05	0.00	-0.19	0.00	0.00
2006	44.00	28.68	16.89	0.00	11.79	13.22	19.07	3.32	17.18	0.01	0.00	0.28	0.00	0.00
2007	44.00	29.09	17.64	0.00	11.45	14.33	19.07	4.44	17.51	0.03	0.00	-0.16	0.00	0.00
2008	44.04	30.81	18.73	0.00	12.08	16.74	19.07	4.92	18.80	0.00	0.00	0.08	0.00	0.00
2009	44.00	28.60	17.28	0.00	11.31	13.46	19.07	4.20	17.02	-0.03	0.00	-0.24	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	AEI	EVAP	TRAM	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPRN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	30.27	18.52	0.00	11.74	16.52	19.07	4.68	19.16	0.12	0.00	0.52	0.00	0.00

XB 96-82.aul

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 96-82\XB 96-82.spw
File Creation Date : Jul 10, 2009 11:13:04
File Last Modified Date : Jul 10, 2009 11:13:04
Description : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 96-82
Simulation Start Date : Jan 01, 1996
Simulation End Date : Dec 31, 2010
Simulation Run Date : Jul 10, 2009 11:13
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 96-82
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 96-82\XB 96-82.fld (Jul 10, 2009 00:00)
Climate : Dewey Burdock 96-82 climatic data
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\96-82.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evdp (Aug 23, 2008 00:00)
Precipitation : SD9682 - Jan 01, 1996 to Dec 31, 2010
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\96-82.txt (Sep 16, 2008 00:00)
Air Temperature : SD9682 - Jan 01, 1996 to Dec 31, 2010
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\96-82.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.agmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Burdock TP8, TP9, TP10 Revised Soils Composite
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Soils\BRev 8-9-10.soil (Jun 23, 2009 00:00)

NUMBER OF SOIL LAYERS: 7

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 8.00 12.00 24.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AEI	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPCRN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1996	44.04	26.04	14.30	0.00	11.74	17.60	19.07	4.09	20.84	1.44	0.00	5.09	0.00	0.00
1997	44.00	30.92	19.38	0.00	11.54	17.73	19.07	4.66	20.59	0.43	0.00	0.78	0.00	0.00
1998	44.00	34.14	22.18	0.00	11.96	24.28	19.07	8.76	22.63	0.14	0.00	0.31	0.00	0.00
1999	44.00	31.54	19.62	0.00	11.91	17.17	19.07	5.57	18.75	-0.19	0.00	-0.69	0.00	0.00
2000	44.04	29.37	17.30	0.00	12.07	14.51	19.07	3.82	17.69	0.04	0.00	0.35	0.00	0.00
2001	44.00	30.91	19.16	0.00	11.75	18.10	19.07	6.25	19.18	0.01	0.00	0.01	0.00	0.00
2002	44.00	29.77	18.13	0.00	11.63	13.11	19.07	2.65	17.90	-0.01	0.00	-0.22	0.00	0.00
2003	44.00	30.46	18.55	0.00	11.91	14.69	19.07	3.07	18.79	0.02	0.00	0.22	0.00	0.00
2004	44.04	29.36	17.92	0.00	11.44	12.18	19.07	1.89	17.91	0.01	0.00	-0.02	0.00	0.00
2005	44.00	31.17	19.51	0.00	11.66	20.16	19.07	8.29	19.27	-0.05	0.00	-0.19	0.00	0.00
2006	44.00	28.68	16.89	0.00	11.79	13.22	19.07	3.32	17.18	0.01	0.00	0.28	0.00	0.00
2007	44.00	29.09	17.64	0.00	11.45	14.33	19.07	4.44	17.51	0.03	0.00	-0.16	0.00	0.00
2008	44.04	30.81	18.73	0.00	12.08	16.74	19.07	4.92	18.80	0.00	0.00	0.08	0.00	0.00
2009	44.00	28.60	17.28	0.00	11.31	13.46	19.07	4.20	17.02	-0.03	0.00	-0.24	0.00	0.00
2010	44.00	33.79	21.94	0.00	11.85	21.88	19.07	6.79	22.32	0.08	0.00	0.30	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AEI	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPCRN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
44.04	30.32	18.57	0.00	11.75	16.77	19.07	4.85	19.24	0.13	0.00	0.54	0.00	0.00	0.00





XB 97-83.aul

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 97-83\XB 97-83.spw
File Creation Date : Jul 10, 2009 12:47:44
File Last Modified Date : Jul 10, 2009 12:47:46
Description : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 97-83
Simulation Start Date : Jan 01, 1997
Simulation End Date : Dec 31, 2011
Simulation Run Date : Jul 10, 2009 12:47
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 97-83
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 97-83\XB 97-83.fld (Jul 11, 200900:00)
Climate : Dewey Burdock 97-83 climatic data
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\97-83.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD9783 - Jan 01, 1997 to Dec 31, 2011
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\97-83.txt (Sep 16, 2008 00:00)
Air Temperature : SD9783 - Jan 01, 1997 to Dec 31, 2011
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\97-83.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Burdock TP8, TP9, TP10 Revised Soils Composite
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Soils\BRev 8-9-10.soil (Jun 23, 2009 00:00)

NUMBER OF SOIL LAYERS: 7

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 8.00 12.00 24.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AST	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1997	44.00	25.87	14.32	0.00	11.54	17.73	19.07	4.04	21.21	1.65	0.00	5.25	0.00	0.00
1998	44.00	33.69	21.73	0.00	11.96	24.28	19.07	8.35	23.04	0.37	0.00	0.94	0.00	0.00
1999	44.00	31.54	19.62	0.00	11.91	17.17	19.07	5.57	18.75	-0.18	0.00	-0.69	0.00	0.00
2000	44.04	29.37	17.30	0.00	12.07	14.51	19.07	3.82	17.69	0.04	0.00	0.35	0.00	0.00
2001	44.00	30.91	19.16	0.00	11.75	18.10	19.07	6.25	19.18	0.01	0.00	0.01	0.00	0.00
2002	44.00	29.77	18.13	0.00	11.63	13.11	19.07	2.65	17.90	-0.01	0.00	-0.22	0.00	0.00
2003	44.00	30.46	18.55	0.00	11.91	14.69	19.07	3.07	18.79	0.02	0.00	0.22	0.00	0.00
2004	44.04	29.36	17.92	0.00	11.44	12.18	19.07	1.89	17.91	0.01	0.00	-0.02	0.00	0.00
2005	44.00	31.17	19.51	0.00	11.66	20.16	19.07	8.29	19.27	-0.05	0.00	-0.19	0.00	0.00
2006	44.00	28.68	16.89	0.00	11.79	13.22	19.07	3.32	17.18	0.01	0.00	0.28	0.00	0.00
2007	44.00	29.09	17.64	0.00	11.45	14.33	19.07	4.44	17.51	0.03	0.00	-0.16	0.00	0.00
2008	44.04	30.81	18.73	0.00	12.08	16.74	19.07	4.92	18.80	0.00	0.00	0.08	0.00	0.00
2009	44.00	28.60	17.28	0.00	11.31	13.46	19.07	4.20	17.02	-0.03	0.00	-0.24	0.00	0.00
2010	44.00	33.79	21.94	0.00	11.85	21.88	19.07	6.79	22.32	0.08	0.00	0.30	0.00	0.00
2011	44.00	30.63	18.84	0.00	11.78	16.16	19.07	4.66	18.79	-0.03	0.00	-0.03	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	AST	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	30.27	18.51	0.00	11.75	16.74	19.07	4.82	19.24	0.13	0.00	0.60	0.00	0.00



SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

XB 98-84.anl

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 98-84\XB 98-84.spw
File Creation Date : Jul 10, 2009 12:59:28
File Last Modified Date : Jul 10, 2009 12:59:29
Description : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 98-84
Simulation Start Date : Jan 01, 1998
Simulation End Date : Dec 31, 2012
Simulation Run Date : Jul 10, 2009 12:59
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 98-84
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 98-84\XB 98-84.fld (Jul 11, 2009 00:00)
Climate : Dewey Burdock 98-84 climatic data
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\98-84.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD9884 - Jan 01, 1998 to Dec 31, 2012
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\98-84.txt (Sep 16, 2008 00:00)
Air Temperature : SD9884 - Jan 01, 1998 to Dec 31, 2012
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\98-84.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Burdock TP8, TP9, TP10 Revised Soils Composite
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Soils\BRev 8-9-10.soil (Jun 23, 2009 00:00)

NUMBER OF SOIL LAYERS:

7

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 8.00 12.00 24.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	ACT	EVAP	TRAM	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPDRN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
1998	44.00	28.00	16.04	0.00	11.96	24.28	19.07	7.33	24.06	1.96	0.00	6.06	0.00	0.00
1999	44.00	31.37	19.45	0.00	11.91	17.17	19.07	5.56	18.77	-0.13	0.00	-0.56	0.00	0.00
2000	44.04	29.37	17.30	0.00	12.07	14.51	19.07	3.82	17.69	0.04	0.00	0.33	0.00	0.00
2001	44.00	30.91	19.16	0.00	11.75	18.10	19.07	6.25	19.18	0.01	0.00	0.01	0.00	0.00
2002	44.00	29.77	18.13	0.00	11.63	13.11	19.07	2.65	17.90	-0.01	0.00	-0.22	0.00	0.00
2003	44.00	30.46	18.85	0.00	11.91	14.69	19.07	3.07	18.79	0.02	0.00	0.22	0.00	0.00
2004	44.04	29.36	17.92	0.00	11.44	12.18	19.07	1.89	17.91	0.01	0.00	-0.02	0.00	0.00
2005	44.00	31.17	19.51	0.00	11.66	20.16	19.07	8.29	19.27	-0.05	0.00	-0.19	0.00	0.00
2006	44.00	28.68	16.89	0.00	11.79	13.22	19.07	3.32	17.18	0.01	0.00	0.28	0.00	0.00
2007	44.00	29.09	17.64	0.00	11.45	14.33	19.07	4.44	17.51	0.03	0.00	-0.16	0.00	0.00
2008	44.04	30.81	18.73	0.00	12.08	16.74	19.07	4.92	18.80	0.00	0.00	0.08	0.00	0.00
2009	44.00	28.60	17.28	0.00	11.31	13.46	19.07	4.20	17.02	-0.03	0.00	-0.24	0.00	0.00
2010	44.00	33.79	21.94	0.00	11.85	21.88	19.07	6.79	22.32	0.08	0.00	0.30	0.00	0.00
2011	44.00	30.63	18.84	0.00	11.78	16.16	19.07	4.66	18.79	-0.03	0.00	-0.03	0.00	0.00
2012	44.04	32.65	20.61	0.00	12.04	16.89	19.07	3.56	20.36	-0.06	0.00	-0.18	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	ACT	EVAP	TRAM	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPDRN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	30.32	18.54	0.00	11.78	14.61	19.07	4.72	19.18	0.12	0.00	0.52	0.00	0.00

XB 99-85.a1

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 99-85\XB 99-85.spw
File Creation Date : Jul 10, 2009 13:07:36
File Last Modified Date : Jul 10, 2009 13:07:36
Description : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 99-85
Simulation Start Date : Jan 01, 1999
Simulation End Date : Dec 31, 2013
Simulation Run Date : Jul 10, 2009 13:07
SPAN Interface Version : 6.02.73
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 99-85
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 99-85\XB 99-85.fld (Jul 11, 200900:00)
Climate : Dewey Burdock 99-85 climatic data
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\99-85.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD9985 - Jan 01, 1999 to Dec 31, 2013
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\99-85.txt (Sep 16, 2008 00:00)
Air Temperature : SD9985 - Jan 01, 1999 to Dec 31, 2013
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\99-85.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Burdock TP8, TP9, TP10 Revised Soils Composite
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Soils\BRev 8-9-10.soil (Jun 23, 2009 00:00)

NUMBER OF SOIL LAYERS: 7

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 8.00 12.00 24.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	ACT	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPERM	DLT-SM	STRESS	YLORED
	in	in	in	in	in	in	in	in	in	in	in	in		
1999	44.00	25.40	13.48	0.00	11.91	17.17	19.07	5.17	19.16	1.36	0.00	4.32	0.00	0.00
2000	44.04	27.72	15.64	0.00	12.07	14.51	19.07	3.82	17.69	0.52	0.00	1.53	0.00	0.00
2001	44.00	30.90	19.15	0.00	11.75	18.10	19.07	6.24	19.18	0.01	0.00	0.01	0.00	0.00
2002	44.00	29.77	18.13	0.00	11.63	13.11	19.07	2.65	17.90	-0.01	0.00	-0.22	0.00	0.00
2003	44.00	30.46	18.55	0.00	11.91	14.69	19.07	3.07	18.79	0.02	0.00	0.22	0.00	0.00
2004	44.04	29.36	17.92	0.00	11.44	12.18	19.07	1.89	17.91	0.01	0.00	-0.02	0.00	0.00
2005	44.00	31.17	19.51	0.00	11.66	20.16	19.07	8.29	19.27	-0.05	0.00	-0.19	0.00	0.00
2006	44.00	28.68	16.89	0.00	11.79	13.22	19.07	3.32	17.18	0.01	0.00	0.28	0.00	0.00
2007	44.00	29.09	17.64	0.00	11.45	14.33	19.07	4.44	17.51	0.03	0.00	-0.16	0.00	0.00
2008	44.04	30.81	18.73	0.00	12.08	16.74	19.07	4.92	18.80	0.00	0.00	0.08	0.00	0.00
2009	44.00	28.60	17.28	0.00	11.31	13.46	19.07	4.20	17.02	-0.03	0.00	-0.24	0.00	0.00
2010	44.00	33.79	21.94	0.00	11.85	21.88	19.07	6.79	22.32	0.08	0.00	0.30	0.00	0.00
2011	44.00	30.63	18.84	0.00	11.78	16.16	19.07	4.66	18.79	-0.03	0.00	-0.03	0.00	0.00
2012	44.04	32.65	20.61	0.00	12.04	16.89	19.07	3.56	20.36	-0.06	0.00	-0.18	0.00	0.00
2013	44.00	28.16	16.53	0.00	11.63	11.75	19.07	2.57	16.62	0.01	0.00	0.08	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

	PET	ACT	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPERM	DLT-SM	STRESS	YLORED
	in	in	in	in	in	in	in	in	in	in	in	in		
	44.04	29.82	18.06	0.00	11.76	15.78	19.07	4.37	18.71	0.12	0.00	0.53	0.00	0.00





XB 00-86.aml

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 00-86\XB 00-86.spw
File Creation Date : Jul 10, 2009 13:34:02
File Last Modified Date : Jul 10, 2009 13:34:02
Description : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 00-86
Simulation Start Date : Jan 01, 2000
Simulation End Date : Dec 31, 2014
Simulation Run Date : Jul 10, 2009 13:34
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 00-86
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 00-86\XB 00-86.fld (Jul 11, 2009 00:00)
Climate : Dewey Burdock 00-86 climatic data
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\00-86.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD0086 - Jan 01, 2000 to Dec 31, 2014
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\00-86.txt (Sep 16, 2008 00:00)
Air Temperature : SD0086 - Jan 01, 2000 to Dec 31, 2014
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\00-86.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Burdock TP8, TP9, TP10 Revised Soils Composite
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Soils\BRev 8-9-10.soil (Jun 23, 2009 00:00)

NUMBER OF SOIL LAYERS: 7

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 8.00 12.00 24.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AEI	EVAP	TRAM	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPEN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
2000	44.04	25.34	13.27	0.09	12.07	14.51	19.07	3.82	17.69	0.87	0.00	3.55	0.00	0.00
2001	44.00	28.24	16.49	0.00	11.75	18.10	19.07	5.62	19.80	1.01	0.00	2.30	0.00	0.00
2002	44.00	29.75	18.12	0.00	11.63	13.11	19.07	2.65	17.90	-0.01	0.00	-0.21	0.00	0.00
2003	44.00	30.46	18.55	0.00	11.91	14.69	19.07	3.07	18.79	0.02	0.00	0.22	0.00	0.00
2004	44.04	29.36	17.92	0.00	11.44	12.18	19.07	1.89	17.91	0.01	0.00	-0.02	0.00	0.00
2005	44.00	31.17	19.51	0.00	11.66	20.16	19.07	8.29	19.27	-0.05	0.00	-0.19	0.00	0.00
2006	44.00	28.68	16.89	0.00	11.79	13.22	19.07	3.32	17.18	0.01	0.00	0.28	0.00	0.00
2007	44.00	29.09	17.64	0.00	11.45	14.33	19.07	4.44	17.51	0.03	0.00	-0.16	0.00	0.00
2008	44.04	30.81	18.73	0.00	12.08	16.74	19.07	4.92	18.80	0.00	0.00	0.08	0.00	0.00
2009	44.00	28.60	17.28	0.00	11.31	13.46	19.07	4.20	17.02	-0.03	0.00	-0.24	0.00	0.00
2010	44.00	33.79	21.94	0.00	11.85	21.88	19.07	6.79	22.32	0.08	0.00	0.30	0.00	0.00
2011	44.00	30.63	18.84	0.00	11.78	16.16	19.07	4.66	18.79	-0.03	0.00	-0.03	0.00	0.00
2012	44.04	32.65	20.61	0.00	12.04	16.89	19.07	3.56	20.36	-0.06	0.00	-0.19	0.00	0.00
2013	44.00	28.16	16.53	0.00	11.63	11.75	19.07	2.57	16.62	0.01	0.00	0.08	0.00	0.00
2014	44.00	35.08	23.16	0.00	11.93	23.59	19.07	7.33	23.41	0.10	0.00	0.15	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	AEI	EVAP	TRAM	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPEN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	30.13	18.37	0.00	11.76	16.21	19.07	4.47	19.04	0.13	0.00	0.54	0.00	0.00



XB 01-87.a1

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 01-87\XB 01-87.spw
File Creation Date : Jul 10, 2009 13:43:16
File Last Modified Date : Jul 10, 2009 13:43:16
Description : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 01-87
Simulation Start Date : Jan 01, 2001
Simulation End Date : Dec 31, 2015
Simulation Run Date : Jul 10, 2009 13:43
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 01-87
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 01-87\XB 01-87.fld (Jul 11, 2009 00:00)
Climate : Dewey Burdock 01-87 climatic data
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\01-87.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD0187 - Jan 01, 2001 to Dec 31, 2015
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\01-87.txt (Sep 16, 2008 00:00)
Air Temperature : SD0187 - Jan 01, 2001 to Dec 31, 2015
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\01-87.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Burdock TP8, TP9, TP10 Revised Soils Composite
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Soils\BREV 8-9-10.soil (Jun 23, 2009 00:00)

NUMBER OF SOIL LAYERS: 7

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 8.00 12.00 24.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AEI	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPRN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
2001	44.00	25.47	13.72	0.00	11.75	18.10	19.07	5.42	19.80	1.37	0.00	4.71	0.00	0.00
2002	44.00	28.12	16.49	0.00	11.63	13.11	19.07	2.65	17.90	0.49	0.00	0.92	0.00	0.00
2003	44.00	30.44	18.53	0.00	11.91	14.69	19.07	3.07	18.79	0.02	0.00	0.24	0.00	0.00
2004	44.04	29.36	17.92	0.00	11.44	12.18	19.07	1.89	17.91	0.01	0.00	-0.02	0.00	0.00
2005	44.00	31.17	19.51	0.00	11.66	20.16	19.07	8.29	19.27	-0.05	0.00	-0.19	0.00	0.00
2006	44.00	28.68	16.89	0.00	11.79	13.22	19.07	3.32	17.18	0.01	0.00	0.28	0.00	0.00
2007	44.00	29.09	17.64	0.00	11.45	14.33	19.07	4.44	17.51	0.03	0.00	-0.16	0.00	0.00
2008	44.04	30.81	18.73	0.00	12.08	16.74	19.07	4.92	18.80	0.00	0.00	0.08	0.00	0.00
2009	44.00	28.60	17.28	0.00	11.31	13.46	19.07	4.20	17.02	-0.03	0.00	-0.24	0.00	0.00
2010	44.00	33.79	21.94	0.00	11.85	21.88	19.07	6.79	22.32	0.08	0.00	0.30	0.00	0.00
2011	44.00	30.63	18.84	0.00	11.78	15.16	19.07	4.66	18.79	-0.03	0.00	-0.03	0.00	0.00
2012	44.04	32.65	20.61	0.00	12.04	16.89	19.07	3.56	20.36	-0.06	0.00	-0.18	0.00	0.00
2013	44.00	28.16	16.53	0.00	11.63	11.75	19.07	2.57	16.62	0.01	0.00	0.08	0.00	0.00
2014	44.00	35.08	23.16	0.00	11.93	23.59	19.07	7.33	23.41	0.10	0.00	0.15	0.00	0.00
2015	44.00	29.71	17.84	0.00	11.87	12.36	19.07	2.28	17.27	-0.15	0.00	-0.41	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

	PET	AEI	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPRN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
44.04	30.13	18.38	0.00	11.75	16.13	19.07	4.37	19.08	0.12	0.00	0.58	0.00	0.00	0.00



XB 02-88.acl

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 02-88\XB 02-88.spw
File Creation Date : Jul 10, 2009 13:52:27
File Last Modified Date : Jul 10, 2009 13:52:28
Description : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 02-88
Simulation Start Date : Jan 01, 2002
Simulation End Date : Dec 31, 2016
Simulation Run Date : Jul 10, 2009 13:52
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 02-88
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 02-88\XB 02-88.fld (Jul 11, 200900:00)
Climate : Dewey Burdock 02-88 climatic data
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\02-88.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD0288 - Jan 01, 2002 to Dec 31, 2016
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\02-88.txt (Sep 16, 2008 00:00)
Air Temperature : SD0288 - Jan 01, 2002 to Dec 31, 2016
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\02-88.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Burdock TP8, TP9, TP10 Revised Soils Composite
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Soils\BRev 8-9-10.soil (Jun 23, 2009 00:00)

NUMBER OF SOIL LAYERS: 7

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 8.00 12.00 24.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	NET	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPERN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
2002	44.00	23.11	13.48	0.00	11.63	13.11	19.07	2.65	17.89	0.91	0.00	3.51	0.00	0.00
2003	44.00	27.40	15.49	0.00	11.91	14.69	19.07	3.07	18.79	0.96	0.00	2.34	0.00	0.00
2004	44.04	29.33	17.89	0.00	11.44	12.18	19.07	1.89	17.91	0.93	0.00	0.00	0.00	0.00
2005	44.00	31.17	19.31	0.00	11.66	20.16	19.07	8.29	19.27	-0.05	0.00	-0.19	0.00	0.00
2006	44.00	28.68	16.89	0.00	11.79	13.22	19.07	3.32	17.18	0.01	0.00	0.28	0.00	0.00
2007	44.00	29.09	17.64	0.00	11.45	14.33	19.07	4.44	17.51	0.03	0.00	-0.16	0.00	0.00
2008	44.04	30.81	18.73	0.00	12.08	16.74	19.07	4.92	18.80	0.00	0.00	0.08	0.00	0.00
2009	44.00	28.60	17.28	0.00	11.31	13.46	19.07	4.20	17.02	-0.03	0.00	-0.24	0.00	0.00
2010	44.00	33.79	21.94	0.00	11.85	21.88	19.07	6.79	22.32	0.08	0.00	0.30	0.00	0.00
2011	44.00	30.63	18.84	0.00	11.78	16.16	19.07	4.66	18.79	-0.03	0.00	-0.03	0.00	0.00
2012	44.04	32.65	20.61	0.00	12.04	16.89	19.07	3.56	20.36	-0.06	0.00	-0.18	0.00	0.00
2013	44.00	28.16	16.53	0.00	11.63	11.75	19.07	2.57	16.62	0.01	0.00	0.08	0.00	0.00
2014	44.00	35.08	23.16	0.00	11.93	23.59	19.07	7.33	23.41	0.10	0.00	0.15	0.00	0.00
2015	44.00	29.71	17.84	0.00	11.87	12.36	19.07	2.28	17.27	-0.13	0.00	-0.41	0.00	0.00
2016	44.04	28.55	16.74	0.00	11.81	13.79	19.07	4.28	16.76	-0.01	0.00	0.03	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	NET	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPERN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	29.93	18.17	0.00	11.75	15.78	19.07	4.28	18.81	0.12	0.00	0.52	0.00	0.00



XB 03-89.a1

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 03-89\XB 03-89.spw
File Creation Date : Jul 10, 2009 14:01:13
File Last Modified Date : Jul 10, 2009 14:01:14
Description : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 03-89
Simulation Start Date : Jan 01, 2003
Simulation End Date : Dec 31, 2017
Simulation Run Date : Jul 10, 2009 14:01
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 03-89
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 03-89\XB 03-89.fld (Jul 11, 200900:00)
Climate : Dewey Burdock 03-89 climatic data
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\03-89.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD0289 - Jan 01, 2003 to Dec 31, 2017
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\03-89.txt (Sep 16, 2008 00:00)
Air Temperature : SD0289 - Jan 01, 2003 to Dec 31, 2017
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\03-89.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Burdock TP8, TP9, TP10 Revised Soils Composite
G:\102\00279.02\Data Info\DE Land Application-Irrigation\SPAN Model\Database\Soils\ERev 8-9-10.soil (Jun 23, 2009 00:00)

NUMBER OF SOIL LAYERS: 7

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 8.00 12.00 24.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET in	AET in	EVAP in	TRAN in	INT in	PRECIP in	IRRIG in	RUNOFF in	INFIL in	PERC in	DEEPRN in	DLT-SM in	STRESS	YLDRED
2003	44.00	25.36	13.46	0.00	11.91	14.69	19.07	3.49	18.37	1.02	0.00	3.89	0.00	0.00
2004	44.04	26.62	15.18	0.00	11.44	12.18	19.07	1.89	17.91	0.86	0.00	1.88	0.00	0.00
2005	44.00	31.08	19.42	0.00	11.66	20.16	19.07	8.28	19.28	-0.03	0.00	-0.11	0.00	0.00
2006	44.00	28.68	16.89	0.00	11.79	13.22	19.07	3.32	17.18	0.01	0.00	0.28	0.00	0.00
2007	44.00	29.09	17.64	0.00	11.45	14.33	19.07	4.44	17.51	0.03	0.00	-0.16	0.00	0.00
2008	44.04	30.81	18.73	0.00	12.08	16.74	19.07	4.92	18.80	0.00	0.00	0.08	0.00	0.00
2009	44.00	28.60	17.28	0.00	11.31	13.46	19.07	4.20	17.02	-0.03	0.00	-0.24	0.00	0.00
2010	44.00	33.79	21.94	0.00	11.85	21.88	19.07	6.79	22.32	0.08	0.00	0.30	0.00	0.00
2011	44.00	30.63	18.84	0.00	11.78	16.16	19.07	4.66	18.79	-0.03	0.00	-0.03	0.00	0.00
2012	44.04	32.65	20.61	0.00	12.04	16.89	19.07	3.56	20.36	-0.06	0.00	-0.18	0.00	0.00
2013	44.00	28.16	16.53	0.00	11.63	11.75	19.07	2.57	16.62	0.01	0.00	0.08	0.00	0.00
2014	44.00	35.08	23.16	0.00	11.93	23.59	19.07	7.33	23.41	0.10	0.00	0.15	0.00	0.00
2015	44.00	29.71	17.84	0.00	11.87	12.36	19.07	2.28	17.27	-0.15	0.00	-0.41	0.00	0.00
2016	44.04	28.55	16.74	0.00	11.81	13.79	19.07	4.28	16.76	-0.01	0.00	0.03	0.00	0.00
2017	44.00	29.93	18.08	0.00	11.85	15.58	19.07	4.14	18.67	0.10	0.00	0.49	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET in	AET in	EVAP in	TRAN in	INT in	PRECIP in	IRRIG in	RUNOFF in	INFIL in	PERC in	DEEPRN in	DLT-SM in	STRESS	YLDRED
44.04	29.93	18.16	0.00	11.77	15.94	19.07	4.41	18.83	0.13	0.00	0.55	0.00	0.00



XB 04-90.aol

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 04-90\XB 04-90.spw
File Creation Date : Jul 10, 2009 14:59:42
File Last Modified Date : Jul 10, 2009 14:59:43
Description : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 04-90
Simulation Start Date : Jan 01, 2004
Simulation End Date : Dec 31, 2018
Simulation Run Date : Jul 10, 2009 14:59
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 04-90
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 04-90\XB 04-90.fld (Jul 11, 200900:00)
Climate : Dewey Burdock 04-90 climatic data
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\04-90.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD0490 - Jan 01, 2004 to Dec 31, 2018
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\04-90.txt (Sep 16, 2008 00:00)
Air Temperature : SD0490 - Jan 01, 2004 to Dec 31, 2018
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\04-90.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Managements\KD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Burdock TP8, TP9, TP10 Revised Soils Composite
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Soils\ERev 8-9-10.soil (Jun 23, 2009 00:00)

NUMBER OF SOIL LAYERS: 7

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 8.00 12.00 24.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	NET	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
2004	44.04	24.68	13.26	0.00	11.42	12.16	19.07	1.89	17.91	0.94	0.00	3.72	0.00	0.00
2005	44.00	28.85	17.18	0.00	11.66	20.16	19.07	7.55	20.02	0.90	0.00	1.93	0.00	0.00
2006	44.00	28.66	16.87	0.00	11.79	13.22	19.07	3.32	17.18	0.02	0.00	0.30	0.00	0.00
2007	44.00	29.09	17.64	0.00	11.45	14.33	19.07	4.44	17.31	0.03	0.00	-0.16	0.00	0.00
2008	44.04	30.81	18.73	0.00	12.08	16.74	19.07	4.92	18.80	0.00	0.00	0.08	0.00	0.00
2009	44.00	28.60	17.28	0.00	11.31	13.46	19.07	4.20	17.02	-0.03	0.00	-0.24	0.00	0.00
2010	44.00	33.79	21.84	0.00	11.85	21.88	19.07	6.79	22.32	0.08	0.00	0.30	0.00	0.00
2011	44.00	30.63	18.84	0.00	11.78	16.16	19.07	4.46	18.79	-0.03	0.00	-0.03	0.00	0.00
2012	44.04	32.65	20.61	0.00	12.04	16.89	19.07	3.56	20.36	-0.06	0.00	-0.18	0.00	0.00
2013	44.00	28.16	16.53	0.00	11.63	11.75	19.07	2.57	16.62	0.01	0.00	0.08	0.00	0.00
2014	44.00	35.08	23.16	0.00	11.93	23.59	19.07	7.33	23.41	0.10	0.00	0.15	0.00	0.00
2015	44.00	28.71	17.84	0.00	11.87	12.36	19.07	2.28	17.27	-0.15	0.00	-0.41	0.00	0.00
2016	44.04	28.55	16.74	0.00	11.81	13.79	19.07	4.28	16.76	-0.01	0.00	0.03	0.00	0.00
2017	44.00	29.93	18.08	0.00	11.85	15.58	19.07	4.14	18.67	0.10	0.00	0.49	0.00	0.00
2018	44.00	31.85	20.19	0.00	11.65	19.14	19.07	6.58	19.97	0.00	0.00	-0.23	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	NET	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	30.08	18.33	0.00	11.75	16.24	19.07	4.57	18.99	0.13	0.00	0.53	0.00	0.00



XB 05-91.a.n1

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 05-91\XB 05-91.spr
File Creation Date : Jul 10, 2009 15:10:11
File Last Modified Date : Jul 10, 2009 15:10:12
Description : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 05-91
Simulation Start Date : Jan 01, 2005
Simulation End Date : Dec 31, 2019
Simulation Run Date : Jul 10, 2009 15:10
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 05-91
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XB 05-91\XB 05-91.fld (Jul 11, 2009 00:00)
Climate : Dewey Burdock 05-91 climatic data
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\05-91.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD0591 - Jan 01, 2005 to Dec 31, 2019
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\05-91.txt (Sep 16, 2008 00:00)
Air Temperature : SD0591 - Jan 01, 2005 to Dec 31, 2019
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\05-91.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Burdock TP8, TP9, TP10 Revised Soils Composite
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Soils\BREV 8-9-10.soil (Jun 23, 2009 00:00)

NUMBER OF SOIL LAYERS:

7

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 8.00 12.00 24.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	NET	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
2005	44.00	25.35	13.69	0.00	11.66	20.16	19.07	7.55	20.02	1.53	0.00	4.80	0.00	0.00
2006	44.00	27.61	15.82	0.00	11.79	13.22	19.07	3.23	17.28	0.32	0.00	1.13	0.00	0.00
2007	44.00	29.08	17.63	0.00	11.45	14.33	19.07	4.44	17.51	0.03	0.00	-0.15	0.00	0.00
2008	44.04	30.81	18.73	0.00	12.08	16.74	19.07	4.92	18.80	0.00	0.00	0.08	0.00	0.00
2009	44.00	28.60	17.28	0.00	11.31	13.46	19.07	4.20	17.02	-0.03	0.00	-0.24	0.00	0.00
2010	44.00	33.79	21.94	0.00	11.85	21.88	19.07	6.79	22.32	0.08	0.00	0.30	0.00	0.00
2011	44.00	30.63	18.84	0.00	11.78	16.16	19.07	4.66	18.79	-0.03	0.00	-0.03	0.00	0.00
2012	44.04	32.65	20.61	0.00	12.04	16.89	19.07	3.56	20.36	-0.06	0.00	-0.18	0.00	0.00
2013	44.00	28.16	16.53	0.00	11.63	11.75	19.07	2.57	16.62	0.01	0.00	0.08	0.00	0.00
2014	44.00	35.08	23.16	0.00	11.93	23.59	19.07	7.33	23.41	0.10	0.00	0.15	0.00	0.00
2015	44.00	29.71	17.84	0.00	11.87	12.36	19.07	2.28	17.27	-0.15	0.00	-0.41	0.00	0.00
2016	44.04	28.55	16.74	0.00	11.81	13.79	19.07	4.28	16.76	-0.01	0.00	0.03	0.00	0.00
2017	44.00	29.93	18.08	0.00	11.85	15.58	19.07	4.14	18.67	0.10	0.00	0.49	0.00	0.00
2018	44.00	31.85	20.19	0.00	11.65	19.14	19.07	6.58	19.97	0.00	0.00	-0.23	0.00	0.00
2019	44.00	29.52	17.60	0.00	11.92	15.03	19.07	4.59	17.59	-0.03	0.00	0.02	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	NET	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPPDN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	30.09	18.31	0.00	11.78	16.27	19.07	4.74	18.83	0.12	0.00	0.39	0.00	0.00



XS 06-92.aal

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XS 06-92\XS 06-92.spw
File Creation Date : Jul 10, 2009 15:18:33
File Last Modified Date : Jul 10, 2009 15:18:34
Description : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 06-92
Simulation Start Date : Jan 01, 2006
Simulation End Date : Dec 31, 2020
Simulation Run Date : Jul 10, 2009 15:18
SPAN Interface Version : 6.02.73
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 06-92
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\XS 06-92\XS 06-92.fld (Jul 11, 200900:00)
Climate : Dewey Burdock 06-92 climatic data
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\06-92.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD0692 - Jan 01, 2006 to Dec 31, 2020
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\06-92.txt (Sep 16, 2008 00:00)
Air Temperature : SD0692 - Jan 01, 2006 to Dec 31, 2020
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\06-92.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Burdock TP8, TP9, TP10 Revised Soils Composite
G:\102\00279.02\Data Info\DS Land Application-Irrigation\SPAN Model\Database\Soils\BRev 8-9-10.soil (Jun 23, 2009 00:00)

NUMBER OF SOIL LAYERS:

7

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 8.00 12.00 24.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AET	EVAP	TRAW	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPTDN	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
2006	44.00	24.32	12.57	0.00	11.75	13.13	19.07	3.23	17.22	0.91	0.00	3.74	0.00	0.00
2007	44.00	26.12	14.67	0.00	11.45	14.33	19.07	4.44	17.51	0.92	0.00	1.91	0.00	0.00
2008	44.04	30.66	18.58	0.00	12.08	16.74	19.07	4.89	18.84	0.05	0.00	0.21	0.00	0.00
2009	44.00	28.60	17.28	0.00	11.31	13.46	19.07	4.20	17.02	-0.03	0.00	-0.24	0.00	0.00
2010	44.00	33.79	21.94	0.00	11.85	21.88	19.07	6.79	22.32	0.08	0.00	0.30	0.00	0.00
2011	44.00	30.63	18.84	0.00	11.78	16.16	19.07	4.66	18.79	-0.03	0.00	-0.03	0.00	0.00
2012	44.04	32.65	20.61	0.00	12.04	16.89	19.07	3.56	20.36	-0.06	0.00	-0.18	0.00	0.00
2013	44.00	28.16	16.53	0.00	11.63	11.75	19.07	2.57	16.62	0.01	0.00	0.08	0.00	0.00
2014	44.00	35.08	23.16	0.00	11.93	23.59	19.07	7.33	23.41	0.10	0.00	0.15	0.00	0.00
2015	44.00	29.71	17.84	0.00	11.87	12.36	19.07	2.28	17.27	-0.15	0.00	-0.41	0.00	0.00
2016	44.04	28.55	16.74	0.00	11.81	13.79	19.07	4.28	16.76	-0.01	0.00	0.03	0.00	0.00
2017	44.00	29.93	18.08	0.00	11.85	15.58	19.07	4.14	18.67	0.10	0.00	0.49	0.00	0.00
2018	44.00	31.85	20.19	0.00	11.65	19.14	19.07	6.58	19.97	0.00	0.00	-0.23	0.00	0.00
2019	44.00	29.52	17.60	0.00	11.92	15.03	19.07	4.59	17.59	-0.03	0.00	0.02	0.00	0.00
2020	44.04	30.27	18.64	0.00	11.63	14.08	19.07	3.06	18.46	-0.04	0.00	-0.14	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

PET	AET	EVAP	TRAW	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPTDN	DLT-SM	STRESS	YLDRED
in	in	in	in	in	in	in	in	in	in	in	in		
44.04	29.99	18.22	0.00	11.77	15.86	19.07	4.44	18.72	0.12	0.00	0.37	0.00	0.00

KB 07-93.ael

SUMMARY OF ANNUAL VALUES FROM SPAN SIMULATION

SIMULATION BY:

John Dwyer
Project Engineer
Knight Piesold

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\KB 07-93\KB 07-93.spw
File Creation Date : Jul 10, 2009 15:27:28
File Last Modified Date : Jul 10, 2009 15:27:29
Description : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 07-93
Simulation Start Date : Jan 01, 2007
Simulation End Date : Dec 31, 2021
Simulation Run Date : Jul 10, 2009 15:27
SPAN Interface Version : 6.02.75
Field Model Version : 6.02.71
Soil Equations : Saxton et al. 2005

DATABASE FILES USED: DESCRIPTION/FILE (DATE)

Field : Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 07-93
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Projects\Fields\Burdock July 09\KB 07-93\KB 07-93.fld (Jul 11, 200900:00)
Climate : Dewey Burdock 07-93 climatic data
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\07-93.clm (Sep 16, 2008 00:00)
Evaporation Defaults: Dewey-Burdock Evap. Defaults
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\Defaults\Dewey-Burdock.evpd (Aug 23, 2008 00:00)
Precipitation : SD0793 - Jan 01, 2007 to Dec 31, 2021
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\07-93.txt (Sep 16, 2008 00:00)
Air Temperature : SD0793 - Jan 01, 2007 to Dec 31, 2021
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Climates\15-yr\07-93.txt (Sep 16, 2008 00:00)
Management : Combined-0.05 in per day Mar 29-May10 and Sep25-Oct 31; 0.11 in/day May11-Sep24; bare soil; 314.5 acres
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Managements\XD-217d-bare.mgmt (Jun 23, 2009 00:00)
Crop (1) : Bare feedlot or fallow field
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Crops\Bare Soil.crop (Jun 10, 2009 00:00)
Soil : Burdock TFS, TFS, TFS Revised Soils Composite
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAN Model\Database\Soils\BRev 8-9-10.soil (Jun 23, 2009 00:00)

NUMBER OF SOIL LAYERS: 7

THICKNESS OF SOIL LAYERS: (IN) 1.00 5.00 11.00 11.00 8.00 12.00 24.00

ACCUMULATIVE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

YEAR	PET	AEI	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPTRM	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
2007	44.00	24.35	12.90	0.00	11.45	14.33	19.07	4.44	17.51	0.95	0.00	3.66	0.00	0.00
2008	44.04	29.29	17.20	0.00	12.08	16.74	19.07	3.39	20.33	0.93	0.00	2.20	0.00	0.00
2009	44.00	28.59	17.28	0.00	11.31	13.46	19.07	4.20	17.02	-0.03	0.00	-0.23	0.00	0.00
2010	44.00	33.79	21.94	0.00	11.85	21.88	19.07	6.79	22.32	0.08	0.00	0.30	0.00	0.00
2011	44.00	30.63	18.84	0.00	11.78	16.16	19.07	4.66	18.79	-0.03	0.00	-0.03	0.00	0.00
2012	44.04	32.63	20.61	0.00	12.04	16.89	19.07	3.56	20.36	-0.06	0.00	-0.18	0.00	0.00
2013	44.00	28.16	16.53	0.00	11.63	11.75	19.07	2.57	16.62	0.01	0.00	0.08	0.00	0.00
2014	44.00	35.08	23.16	0.00	11.93	23.59	19.07	7.33	23.41	0.10	0.00	0.15	0.00	0.00
2015	44.00	29.71	17.84	0.00	11.87	12.36	19.07	2.28	17.27	-0.15	0.00	-0.41	0.00	0.00
2016	44.04	28.55	16.74	0.00	11.81	13.79	19.07	4.28	16.76	-0.01	0.00	0.03	0.00	0.00
2017	44.00	29.93	18.08	0.00	11.85	15.58	19.07	4.14	18.67	0.10	0.00	0.49	0.00	0.00
2018	44.00	31.85	20.19	0.00	11.65	19.14	19.07	6.58	19.97	0.00	0.00	-0.23	0.00	0.00
2019	44.00	29.52	17.60	0.00	11.92	15.03	19.07	4.59	17.59	-0.03	0.00	0.02	0.00	0.00
2020	44.04	30.27	18.64	0.00	11.63	14.08	19.07	3.06	18.46	-0.04	0.00	-0.14	0.00	0.00
2021	44.00	33.76	21.77	0.00	11.99	22.31	19.07	6.86	22.53	0.11	0.00	0.66	0.00	0.00

AVERAGE ANNUAL VALUES OF SOIL HYDROLOGIC BUDGET

	PET	AEI	EVAP	TRAN	INT	PRECIP	IRRIG	RUNOFF	INFIL	PERC	DEEPTRM	DLT-SM	STRESS	YLDRED
	in	in	in	in	in	in	in	in	in	in	in	in		
	44.04	30.41	18.63	0.00	11.79	16.47	19.07	4.58	19.17	0.13	0.00	0.42	0.00	0.00



SPAW Model Results

Burdock Pond

A SUMMARY OF ACCUMULATIVE ANNUAL POND VOLUMES 80-84

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPA\W Model\Projects\Ponds\Burdock July 09\XB 80-84\XB 80-84.pnd
 File Creation Date : Jul 08, 2009 14:55:31
 File Last Modified Date : Jul 08, 2009 14:55:31
 Description : Burdock 302 AF Pond, 0.05 in/day from Mar-May and Oct; 0.11 in/day May11-Sep24; 314.5ac, bare soil; 80-84
 Simulation Start Date : Jan 01, 1990
 Simulation End Date : Dec 31, 1994
 Simulation Run Date : Jul 08, 2009 14:55
 SPAW Interface Version : Jul 08, 2009 14:55:31
 Pond Model Version : 6.02.71

WATERSHED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 80-84 0.00
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPA\W Model\Projects\Fields\Burdock July 09\XB 80-84\XB 80-84.fpin Dec 30, 1899 00:00

IRRIGATED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 80-84 314.50
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPA\W Model\Projects\Fields\Burdock July 09\XB 80-84\XB 80-84.fpin Dec 30, 1899 00:00

POND PROFILE

MAX AREA (AC) = 12.06
 MAX DEPTH (FT) = 32.50
 MAX VOLUME (AC-FT) = 295.99
 IRRIGATION LIMIT (FT) = 1.00
 EXTERNAL INPUT UPPER LIMIT (FT) = 0.00
 EXTERNAL INPUT LOWER LIMIT (FT) = 0.00
 SUPPLY PUMP LOWER LIMIT (FT) = 0.00
 DRAWDOWN PUMP UPPER LIMIT (FT) = 0.00
 DRAWDOWN PUMP LOWER LIMIT (FT) = 0.00
 SPILLWAY CREST (FT) = 32.50
 INITIAL DEPTH (FT) = 0.00
 INFIL INTO DRY SOIL (IN) = 0.00

ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Year	Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Run ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drawdown In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
1980	515.75	425.51	90.23	16.33	10.82	0	3.45	0	501.47	0	0	0	0	0	26.9	0	0	398.61	101.18
1981	512.18	511.58	0.6	13.46	9.96	0	2.12	0	500.1	0	0	0	0	0	30.82	0	0	480.76	19.03
1982	519.33	518.79	0.54	21.88	15.94	0	3.28	0	500.1	0	0	0	0	0	31.01	0	0	487.78	12.01
1983	514.37	514.88	-0.53	16.16	11.7	0	2.57	0	500.1	0	0	0	0	0	30.9	0	0	483.99	15.8
1984	516.37	517.79	-1.42	16.9	13.11	0	1.79	0	501.47	0	0	0	0	0	31.11	0	0	486.89	13.11
1985	510.18	510.4	-0.22	11.75	8.72	0	1.35	0	500.1	0	0	0	0	0	30.74	0	0	479.68	20.13
1986	521.25	517.6	3.65	23.88	16.85	0	4.3	0	500.1	0	0	0	0	0	31.01	0	0	486.59	13.2
1987	511.06	514.58	-3.52	12.37	9.47	0	1.48	0	500.1	0	0	0	0	0	30.98	0	0	483.6	16.19
1988	513.94	514.37	-0.43	13.78	10.41	0	2.06	0	501.47	0	0	0	0	0	30.91	0	0	483.46	16.33
1989	513.88	513.15	0.73	15.58	10.9	0	2.88	0	500.1	0	0	0	0	0	30.71	0	0	482.44	17.35
1990	517.5	517.01	0.49	19.14	14.18	0	3.22	0	500.1	0	0	0	0	0	30.91	0	0	486.09	13.7
1991	513.84	514.14	-0.5	15.03	11.7	0	1.84	0	500.1	0	0	0	0	0	30.91	0	0	483.23	16.56
1992	513.83	514.19	-0.56	14.07	10.59	0	1.57	0	501.47	0	0	0	0	0	30.81	0	0	483.28	18.51
1993	520.21	518.53	1.68	22.3	17.02	0	3.09	0	500.1	0	0	0	0	0	31.03	0	0	487.5	12.29
1994	510.84	510.51	0.13	12	8.8	0	1.74	0	500.1	0	0	0	0	0	30.81	0	0	479.7	20.09

AVERAGE ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Run ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drawdown In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
515.93	508.89	7.04	16.29	12.01	0	2.45	0	501.47	0	0	0	0	0	30.67	0	0	478.23	21.57





A SUMMARY OF ACCUMULATIVE ANNUAL POND VOLUMES 81-95

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Ponds\Burdock July 09\XB 81-95\XB 81-95.pnd
 File Creation Date : Jul 09, 2009 15:39:54
 File Last Modified Date : Jul 09, 2009 15:39:54
 Description : Burdock 302 AF Pond, 0.05 in/day from Mar-May and Oct, 0.11 in/day May11-Sep24; 314.5ac, bare soil; 81-95
 Simulation Start Date : Jan 01, 1981
 Simulation End Date : Dec 31, 1995
 Simulation Run Date : Jul 09, 2009 15:39
 SPAW Interface Version : Jul 09, 2009 15:39:54
 Pond Model Version : 6.02.71

WATERSHED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 81-95 0.00
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 81-95\XB 81-95.fpin Dec 30, 1999 00:00

IRRIGATED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 81-95 314.50
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 81-95\XB 81-95.fpin Dec 30, 1999 00:00

POND PROFILE

MAX AREA (AC) = 12.05
 MAX DEPTH (FT) = 32.50
 MAX VOLUME (AC-FT) = 295.99
 IRRIGATION LIMIT (FT) = 1.00
 EXTERNAL INPUT UPPER LIMIT (FT) = 0.00
 EXTERNAL INPUT LOWER LIMIT (FT) = 0.00
 SUPPLY PUMP LOWER LIMIT (FT) = 0.00
 DRAWDOWN PUMP UPPER LIMIT (FT) = 0.00
 DRAWDOWN PUMP LOWER LIMIT (FT) = 0.00
 SPILLWAY CREST (FT) = 32.50
 INITIAL DEPTH (FT) = 0.00
 INFIL INTO DRY SOIL (IN) = 0.00

ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Year	Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runc ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
1981	511.69	420.75	90.83	13.46	8.55	0	2.93	0	500.1	0	0	0	0	0	26.74	0	0	394.01	105.78
1982	519.33	516.79	0.54	21.88	15.94	0	3.28	0	500.1	0	0	0	0	0	31.01	0	0	487.78	12.01
1983	514.37	514.89	-0.53	16.16	11.7	0	2.57	0	500.1	0	0	0	0	0	30.9	0	0	483.99	15.8
1984	516.37	517.79	-1.42	16.9	13.11	0	1.79	0	501.47	0	0	0	0	0	31.11	0	0	488.88	13.11
1985	510.18	510.4	-0.22	11.75	8.72	0	1.35	0	500.1	0	0	0	0	0	30.74	0	0	478.66	20.13
1986	521.25	517.6	3.65	23.59	16.85	0	4.3	0	500.1	0	0	0	0	0	31.01	0	0	486.59	13.2
1987	511.06	514.58	-3.52	12.37	9.47	0	1.48	0	500.1	0	0	0	0	0	30.98	0	0	483.6	16.18
1988	513.94	514.37	-0.43	13.79	10.41	0	2.08	0	501.47	0	0	0	0	0	30.91	0	0	483.46	16.33
1989	513.88	513.15	0.73	15.68	10.9	0	2.88	0	500.1	0	0	0	0	0	30.71	0	0	482.44	17.35
1990	517.5	517.01	0.49	19.14	14.18	0	3.22	0	500.1	0	0	0	0	0	30.91	0	0	486.09	13.7
1991	513.84	514.14	-0.5	15.03	11.7	0	1.84	0	500.1	0	0	0	0	0	30.91	0	0	483.23	16.56
1992	513.83	514.19	-0.56	14.07	10.59	0	1.57	0	501.47	0	0	0	0	0	30.91	0	0	483.28	16.51
1993	520.21	518.53	1.68	22.3	17.02	0	3.09	0	500.1	0	0	0	0	0	31.03	0	0	487.5	12.29
1994	510.84	510.51	0.13	12	8.8	0	1.74	0	500.1	0	0	0	0	0	30.81	0	0	479.7	20.09
1995	516.24	515	1.24	18.32	13.44	0	2.89	0	500.1	0	0	0	0	0	30.97	0	0	484.03	15.76

AVERAGE ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runc ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
516.02	508.81	7.21	16.42	12.09	0	2.45	0	501.47	0	0	0	0	0	30.67	0	0	478.14	21.85



A SUMMARY OF ACCUMULATIVE ANNUAL POND VOLUMES 82-96

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Ponds\Burdock July 09\VB 82-96\VB 82-96.pnd
 File Creation Date : Jul 09, 2009 16:11:28
 File Last Modified Date : Jul 09, 2009 16:11:28
 Description : Burdock 302 AF Pond, 0.05 in/day from Mar-May and Oct; 0.11 in/day May11-Sep24; 314.5ac, bare soil; 82-96
 Simulation Start Date : Jan 01, 1982
 Simulation End Date : Dec 31, 1996
 Simulation Run Date : Jul 09, 2009 16:11
 SPAW Interface Version : Jul 09, 2009 16:11:28
 Pond Model Version : 6.02.71

WATERSHED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 82-96 0.00
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\VB 82-96\VB 82-96.fpn Dec 30, 1899 00:00

IRRIGATED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 82-96 314.50
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\VB 82-96\VB 82-96.fpn Dec 30, 1899 00:00

POND PROFILE

MAX AREA (AC) = 12.05
 MAX DEPTH (FT) = 32.50
 MAX VOLUME (AC-FT) = 295.99
 IRRIGATION LIMIT (FT) = 1.00
 EXTERNAL INPUT UPPER LIMIT (FT)= 0.00
 EXTERNAL INPUT LOWER LIMIT (FT)= 0.00
 SUPPLY PUMP LOWER LIMIT (FT) = 0.00
 DRAWDOWN PUMP UPPER LIMIT (FT) = 0.00
 DRAWDOWN PUMP LOWER LIMIT (FT) = 0.00
 SPILLWAY CREST (FT) = 32.50
 INITIAL DEPTH (FT) = 0.00
 INFIL INTO DRY SOIL (IN) = 0.00

ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Year	Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runoff ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
1982	518.31	426.94	91.37	21.83	13.74	0	4.47	0	500.1	0	0	0	0	0	26.8	0	0	400.14	99.66
1983	514.37	514.89	-0.53	16.16	11.7	0	2.57	0	500.1	0	0	0	0	0	30.9	0	0	483.99	15.8
1984	516.37	517.79	-1.42	16.9	13.11	0	1.79	0	501.47	0	0	0	0	0	31.11	0	0	486.69	13.11
1985	510.18	510.4	-0.22	11.75	8.72	0	1.35	0	500.1	0	0	0	0	0	30.74	0	0	479.66	20.13
1986	521.25	517.6	3.65	23.59	16.85	0	4.3	0	500.1	0	0	0	0	0	31.01	0	0	486.59	13.2
1987	511.06	514.58	-3.52	12.37	9.47	0	1.48	0	500.1	0	0	0	0	0	30.88	0	0	483.8	16.19
1988	513.94	514.37	-0.43	13.79	10.41	0	2.06	0	501.47	0	0	0	0	0	30.91	0	0	483.46	16.33
1989	513.88	513.15	0.73	15.58	10.9	0	2.88	0	500.1	0	0	0	0	0	30.71	0	0	482.44	17.35
1990	517.5	517.01	0.49	19.14	14.18	0	3.22	0	500.1	0	0	0	0	0	30.91	0	0	486.09	13.7
1991	513.64	514.14	-0.5	15.03	11.7	0	1.84	0	500.1	0	0	0	0	0	30.91	0	0	483.23	16.56
1992	513.63	514.19	-0.56	14.07	10.59	0	1.57	0	501.47	0	0	0	0	0	30.91	0	0	483.28	16.51
1993	520.21	518.53	1.68	22.3	17.02	0	3.09	0	500.1	0	0	0	0	0	31.03	0	0	487.5	12.29
1994	510.64	510.51	0.13	12	8.8	0	1.74	0	500.1	0	0	0	0	0	30.81	0	0	479.7	20.09
1995	516.24	515	1.24	18.32	13.44	0	2.69	0	500.1	0	0	0	0	0	30.87	0	0	484.03	15.76
1996	517.08	518.52	-1.44	17.59	13.07	0	2.54	0	501.47	0	0	0	0	0	31.11	0	0	487.41	12.38

AVERAGE ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runoff ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
516.23	509.2	7.03	16.69	12.25	0	2.51	0	501.47	0	0	0	0	0	30.68	0	0	478.52	21.27



A SUMMARY OF ACCUMULATIVE ANNUAL POND VOLUMES 83-97

SIMULATION FOR:

File : G:\10200279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Ponds\Burdock July 09\XB 83-97\XB 83-97.pnd
 File Creation Date : Jul 09, 2009 17:45:28
 File Last Modified Date : Jul 09, 2009 17:45:28
 Description : Burdock 302 AF Pond, 0.05 in/day from Mar-May and Oct; 0.11 in/day May11-Sep24; 314.5ac, bare soil; 83-97
 Simulation Start Date : Jan 01, 1983
 Simulation End Date : Dec 31, 1997
 Simulation Run Date : Jul 09, 2009 17:45
 SPAW Interface Version : Jul 09, 2009 17:45:28
 Pond Model Version : 6.02.71

WATERSHED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 83-97 0.00
 G:\10200279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 83-97\XB 83-97.tpin Dec 30, 1899 00:00

IRRIGATED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 83-97 314.50
 G:\10200279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 83-97\XB 83-97.tpin Dec 30, 1899 00:00

POND PROFILE

MAX AREA (AC) = 12.05
 MAX DEPTH (FT) = 32.50
 MAX VOLUME (AC-FT) = 295.99
 IRRIGATION LIMIT (FT) = 1.00
 EXTERNAL INPUT UPPER LIMIT (FT) = 0.00
 EXTERNAL INPUT LOWER LIMIT (FT) = 0.00
 SUPPLY PUMP LOWER LIMIT (FT) = 0.00
 DRAWDOWN PUMP UPPER LIMIT (FT) = 0.00
 DRAWDOWN PUMP LOWER LIMIT (FT) = 0.00
 SPILLWAY CREST (FT) = 32.50
 INITIAL DEPTH (FT) = 0.00
 INFIL INTO DRY SOIL (IN) = 0.00

ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Year	Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runc ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
1983	513.59	422.75	90.85	16.08	9.96	0	3.53	0	500.1	0	0	0	0	0	26.73	0	0	396.02	103.77
1984	516.37	517.79	-1.42	16.9	13.11	0	1.79	0	501.47	0	0	0	0	0	31.11	0	0	466.66	13.11
1985	510.18	510.4	-0.22	11.75	8.72	0	1.35	0	500.1	0	0	0	0	0	30.74	0	0	479.66	20.13
1986	521.25	517.6	3.65	23.59	16.85	0	4.3	0	500.1	0	0	0	0	0	31.01	0	0	486.59	13.2
1987	511.06	514.58	-3.52	12.37	9.47	0	1.48	0	500.1	0	0	0	0	0	30.98	0	0	483.6	16.19
1988	513.94	514.37	-0.43	13.79	10.41	0	2.06	0	501.47	0	0	0	0	0	30.91	0	0	483.46	16.33
1989	513.88	513.15	0.73	15.58	10.9	0	2.88	0	500.1	0	0	0	0	0	30.71	0	0	482.44	17.35
1990	517.5	517.01	0.49	19.14	14.18	0	3.22	0	500.1	0	0	0	0	0	30.91	0	0	486.09	13.7
1991	513.84	514.14	-0.5	15.03	11.7	0	1.84	0	500.1	0	0	0	0	0	30.91	0	0	483.23	16.66
1992	513.63	514.19	-0.56	14.07	10.59	0	1.57	0	501.47	0	0	0	0	0	30.91	0	0	483.28	18.51
1993	520.21	518.53	1.68	22.3	17.02	0	3.09	0	500.1	0	0	0	0	0	31.03	0	0	487.5	12.29
1994	510.64	510.51	0.13	12	8.8	0	1.74	0	500.1	0	0	0	0	0	30.81	0	0	479.7	20.09
1995	516.24	515	1.24	18.32	13.44	0	2.69	0	500.1	0	0	0	0	0	30.97	0	0	484.03	15.76
1996	517.08	518.52	-1.44	17.59	13.07	0	2.54	0	501.47	0	0	0	0	0	31.11	0	0	487.41	12.38
1997	515.79	517.19	-1.4	17.73	13.43	0	2.26	0	500.1	0	0	0	0	0	30.97	0	0	486.22	13.58

AVERAGE ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runc ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
516.01	509.07	6.93	16.42	12.11	0	2.42	0	501.47	0	0	0	0	0	30.68	0	0	478.4	21.4



A SUMMARY OF ACCUMULATIVE ANNUAL POND VOLUMES 84-98

SIMULATION FOR:

File : G:\102\00279.02\Data Info\08 Land Application-Irrigation\SPAW Model\Projects\Ponds\Burdock July 09\XB 84-98\XB 84-98.prd
 File Creation Date : Jul 10, 2009 08:55:47
 File Last Modified Date : Jul 10, 2009 08:55:47
 Description : Burdock 302 AF Pond, 0.05 in/day from Mar-May and Oct; 0.11 in/day May11-Sep24; 314.5 ac, bare soil; 84-98
 Simulation Start Date : Jan 01, 1984
 Simulation End Date : Dec 31, 1998
 Simulation Run Date : Jul 10, 2009 08:55
 SPAW Interface Version : Jul 10, 2009 08:55:47
 Pond Model Version : 6.02.71

WATERSHED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 84-98 0.00
 G:\102\00279.02\Data Info\08 Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 84-98\XB 84-98.fpin Dec 30, 1899 00:00

IRRIGATED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 84-98 314.50
 G:\102\00279.02\Data Info\08 Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 84-98\XB 84-98.fpin Dec 30, 1899 00:00

POND PROFILE

MAX AREA (AC) = 12.05
 MAX DEPTH (FT) = 32.50
 MAX VOLUME (AC-FT) = 296.99
 IRRIGATION LIMIT (FT) = 1.00
 EXTERNAL INPUT UPPER LIMIT (FT) = 0.00
 EXTERNAL INPUT LOWER LIMIT (FT) = 0.00
 SUPPLY PUMP LOWER LIMIT (FT) = 0.00
 DRAWDOWN PUMP UPPER LIMIT (FT) = 0.00
 DRAWDOWN PUMP LOWER LIMIT (FT) = 0.00
 SPILLWAY CREST (FT) = 32.50
 INITIAL DEPTH (FT) = 0.00
 INFIL INTO DRY SOIL (IN) = 0.00

ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Year	Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runo ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drowdn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
1984	514.22	424.8	89.43	15.85	10.31	0	2.44	0	501.47	0	0	0	0	0	28.85	0	0	397.94	101.85
1985	510.18	510.4	-0.22	11.75	8.72	0	1.35	0	500.1	0	0	0	0	0	30.74	0	0	479.66	20.13
1986	521.25	517.6	3.65	23.59	16.85	0	4.3	0	500.1	0	0	0	0	0	31.01	0	0	486.59	13.2
1987	511.06	514.58	-3.52	12.37	9.47	0	1.48	0	500.1	0	0	0	0	0	30.98	0	0	483.6	16.19
1988	513.94	514.37	-0.43	13.79	10.41	0	2.06	0	501.47	0	0	0	0	0	30.91	0	0	483.46	18.33
1989	513.88	513.15	0.73	15.58	10.9	0	2.88	0	500.1	0	0	0	0	0	30.71	0	0	482.44	17.35
1990	517.5	517.01	0.49	19.14	14.18	0	3.22	0	500.1	0	0	0	0	0	30.91	0	0	486.09	13.7
1991	513.64	514.14	-0.5	15.03	11.7	0	1.84	0	500.1	0	0	0	0	0	30.91	0	0	483.23	16.56
1992	513.63	514.19	-0.56	14.07	10.59	0	1.57	0	501.47	0	0	0	0	0	30.91	0	0	483.28	16.51
1993	520.21	518.53	1.68	22.3	17.02	0	3.09	0	500.1	0	0	0	0	0	31.03	0	0	487.5	12.29
1994	510.64	510.51	0.13	12	8.8	0	1.74	0	500.1	0	0	0	0	0	30.81	0	0	479.7	20.09
1995	516.24	515	1.24	18.32	13.44	0	2.89	0	500.1	0	0	0	0	0	30.97	0	0	484.03	15.76
1996	517.08	518.52	-1.44	17.59	13.07	0	2.54	0	501.47	0	0	0	0	0	31.11	0	0	487.41	12.38
1997	515.79	517.19	-1.4	17.73	13.43	0	2.26	0	500.1	0	0	0	0	0	30.97	0	0	486.22	13.58
1998	522.01	518.03	3.98	24.28	17.28	0	4.62	0	500.1	0	0	0	0	0	30.96	0	0	487.06	12.73

AVERAGE ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runo ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drowdn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
516.42	509.22	7.2	16.88	12.41	0	2.54	0	501.47	0	0	0	0	0	30.68	0	0	478.55	21.24



A SUMMARY OF ACCUMULATIVE ANNUAL POND VOLUMES 85-99

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Ponds\Burdock July 09\XB 85-99\XB 85-99.pnd
 File Creation Date : Jul 10, 2009 09:14:56
 File Last Modified Date : Jul 10, 2009 09:14:56
 Description : Burdock 302 AF Pond, 0.05 in/day from Mar-May and Oct; 0.11 in/day May11-Sep24; 314.5 ac, bare soil; 85-99
 Simulation Start Date : Jan 01, 1985
 Simulation End Date : Dec 31, 1999
 Simulation Run Date : Jul 10, 2009 09:14
 SPAW Interface Version : Jul 10, 2009 09:14:56
 Pond Model Version : 8.02.71

WATERSHED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 85-99 0.00
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 85-99\XB 85-99.fpin Dec 30, 1999 00:00

IRRIGATED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 85-99 314.50
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 85-99\XB 85-99.fpin Dec 30, 1999 00:00

POND PROFILE

MAX AREA (AC) = 12.06
 MAX DEPTH (FT) = 32.50
 MAX VOLUME (AC-FT) = 296.99
 IRRIGATION LIMIT (FT) = 1.00
 EXTERNAL INPUT UPPER LIMIT (FT)= 0.00
 EXTERNAL INPUT LOWER LIMIT (FT)= 0.00
 SUPPLY PUMP LOWER LIMIT (FT) = 0.00
 DRAWDOWN PUMP UPPER LIMIT (FT) = 0.00
 DRAWDOWN PUMP LOWER LIMIT (FT) = 0.00
 SPILLWAY CREST (FT) = 32.50
 INITIAL DEPTH (FT) = 0.00
 INFIL. INTO DRY SOIL (IN) = 0.00

ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Year	Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runo ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep in ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
1985	509.66	420.45	89.21	11.75	7.58	0	1.88	0	500.1	0	0	0	0	0	26.73	0	0	393.72	106.07
1986	521.25	517.6	3.65	23.59	18.85	0	4.3	0	500.1	0	0	0	0	0	31.01	0	0	486.59	13.2
1987	511.06	514.58	-3.52	12.37	9.47	0	1.48	0	500.1	0	0	0	0	0	30.98	0	0	483.6	16.19
1988	513.94	514.37	-0.43	13.79	10.41	0	2.08	0	501.47	0	0	0	0	0	30.91	0	0	483.46	18.33
1989	513.88	513.15	0.73	15.58	10.9	0	2.88	0	500.1	0	0	0	0	0	30.71	0	0	482.44	17.96
1990	517.5	517.01	0.49	19.14	14.18	0	3.22	0	500.1	0	0	0	0	0	30.91	0	0	486.09	13.7
1991	513.64	514.14	-0.5	15.03	11.7	0	1.84	0	500.1	0	0	0	0	0	30.91	0	0	483.23	16.56
1992	513.63	514.19	-0.56	14.07	10.59	0	1.57	0	501.47	0	0	0	0	0	30.91	0	0	483.28	16.61
1993	520.21	518.53	1.68	22.3	17.02	0	3.09	0	500.1	0	0	0	0	0	31.03	0	0	487.5	12.29
1994	510.64	510.51	0.13	12	8.8	0	1.74	0	500.1	0	0	0	0	0	30.81	0	0	479.7	20.09
1995	516.24	515	1.24	18.32	13.44	0	2.69	0	500.1	0	0	0	0	0	30.97	0	0	484.03	15.76
1996	517.08	518.52	-1.44	17.59	13.07	0	2.54	0	501.47	0	0	0	0	0	31.11	0	0	487.41	12.38
1997	515.79	517.19	-1.4	17.73	13.43	0	2.26	0	500.1	0	0	0	0	0	30.97	0	0	486.22	13.58
1998	522.01	518.03	3.98	24.29	17.28	0	4.62	0	500.1	0	0	0	0	0	30.96	0	0	487.06	12.73
1999	515.75	520.12	-4.37	17.17	13.4	0	2.25	0	500.1	0	0	0	0	0	31.14	0	0	488.99	10.81

AVERAGE ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runo ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep in ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
516.58	509.59	7	16.98	12.54	0	2.57	0	501.47	0	0	0	0	0	30.7	0	0	478.89	20.9



A SUMMARY OF ACCUMULATIVE ANNUAL POND VOLUMES 86-00

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Mode\Projects\Ponds\Burdock July 09\XB 86-00\XB 86-00.pnd
 File Creation Date : Jul 10, 2009 09:24:21
 File Last Modified Date : Jul 10, 2009 09:24:21
 Description : Burdock 302 AF Pond, 0.05 in/day from Mar-May and Oct; 0.11 in/day May11-Sep24; 314.5 ac, bare soil; 86-00
 Simulation Start Date : Jan 01, 1986
 Simulation End Date : Dec 31, 2000
 Simulation Run Date : Jul 10, 2009 09:24
 SPAW Interface Version : Jul 10, 2009 09:24:21
 Pond Model Version : 8.02.71

WATERSHED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 86-00 0.00
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Mode\Projects\Fields\Burdock July 09\XB 86-00\XB 86-00.fpin Dec 30, 1899 00:00

IRRIGATED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 86-00 314.50
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Mode\Projects\Fields\Burdock July 09\XB 86-00\XB 86-00.fpin Dec 30, 1899 00:00

POND PROFILE

MAX AREA (AC) = 12.05
 MAX DEPTH (FT) = 32.50
 MAX VOLUME (AC-FT) = 296.99
 IRRIGATION LIMIT (FT) = 1.00
 EXTERNAL INPUT UPPER LIMIT (FT) = 0.00
 EXTERNAL INPUT LOWER LIMIT (FT) = 0.00
 SUPPLY PUMP LOWER LIMIT (FT) = 0.00
 DRAWDOWN PUMP UPPER LIMIT (FT) = 0.00
 DRAWDOWN PUMP LOWER LIMIT (FT) = 0.00
 SPILLWAY CREST (FT) = 32.50
 INITIAL DEPTH (FT) = 0.00
 INFIL INTO DRY SOIL (IN) = 0.00

ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Year	Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runoff ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drawdown ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
1986	519.01	426.15	92.86	22.02	13.74	0	5.17	0	500.1	0	0	0	0	0	26.84	0	0	399.31	100.48
1987	511.06	514.58	-3.52	12.37	8.47	0	1.48	0	500.1	0	0	0	0	0	30.98	0	0	483.6	16.19
1988	513.94	514.37	-0.43	13.79	10.41	0	2.06	0	501.47	0	0	0	0	0	30.91	0	0	483.46	16.33
1989	513.88	513.15	0.73	15.58	10.9	0	2.88	0	500.1	0	0	0	0	0	30.71	0	0	482.44	17.35
1990	517.5	517.01	0.49	18.14	14.18	0	3.22	0	500.1	0	0	0	0	0	30.91	0	0	485.09	13.7
1991	513.64	514.14	-0.5	15.03	11.7	0	1.84	0	500.1	0	0	0	0	0	30.91	0	0	483.23	16.56
1992	513.63	514.19	-0.56	14.07	10.59	0	1.57	0	501.47	0	0	0	0	0	30.91	0	0	483.28	16.51
1993	520.21	518.53	1.68	22.3	17.02	0	3.09	0	500.1	0	0	0	0	0	31.03	0	0	487.5	12.29
1994	510.64	510.51	0.13	12	8.8	0	1.74	0	500.1	0	0	0	0	0	30.81	0	0	479.7	20.09
1995	516.24	515	1.24	18.32	13.44	0	2.69	0	500.1	0	0	0	0	0	30.97	0	0	484.03	15.76
1996	517.08	518.52	-1.44	17.59	13.07	0	2.54	0	501.47	0	0	0	0	0	31.11	0	0	487.41	12.38
1997	515.79	517.19	-1.4	17.73	13.43	0	2.26	0	500.1	0	0	0	0	0	30.97	0	0	486.22	13.58
1998	522.01	518.03	3.98	24.29	17.28	0	4.82	0	500.1	0	0	0	0	0	30.96	0	0	487.06	12.73
1999	515.75	520.12	-4.37	17.17	13.4	0	2.25	0	500.1	0	0	0	0	0	31.14	0	0	488.89	10.81
2000	514.29	513.59	0.71	14.51	11.13	0	1.7	0	501.47	0	0	0	0	0	30.94	0	0	482.65	17.14

AVERAGE ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runoff ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drawdown ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
516.65	509.7	6.95	17.06	12.57	0	2.61	0	501.47	0	0	0	0	0	30.7	0	0	479	20.79



A SUMMARY OF ACCUMULATIVE ANNUAL POND VOLUMES 87-01

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Ponds\Burdock July 09\XB 87-01\XB 87-01.pnd
File Creation Date : Jul 10, 2009 09:35:20
File Last Modified Date : Jul 10, 2009 09:35:20
Description : Burdock 302 AF Pond, 0.05 in/day from Mar-May and Oct; 0.11 in/day May11-Sep24; 314.5 ac, bare soil; 87-01
Simulation Start Date : Jan 01, 1987
Simulation End Date : Dec 31, 2001
Simulation Run Date : Jul 10, 2009 09:35
SPAW Interface Version : Jul 10, 2009 09:35:20
Pond Model Version : 6.02.71

WATERSHED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 87-01 0.00
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 87-01\XB 87-01.fpin Dec 30, 1899 00:00

IRRIGATED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 87-01 314.50
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 87-01\XB 87-01.fpin Dec 30, 1899 00:00

POND PROFILE

MAX AREA (AC) = 12.05
MAX DEPTH (FT) = 32.50
MAX VOLUME (AC-FT) = 285.99
IRRIGATION LIMIT (FT) = 1.00
EXTERNAL INPUT UPPER LIMIT (FT) = 0.00
EXTERNAL INPUT LOWER LIMIT (FT) = 0.00
SUPPLY PUMP LOWER LIMIT (FT) = 0.00
DRAWDOWN PUMP UPPER LIMIT (FT) = 0.00
DRAWDOWN PUMP LOWER LIMIT (FT) = 0.00
SPILLWAY CREST (FT) = 32.50
INITIAL DEPTH (FT) = 0.00
INFIL INTO DRY SOIL (IN) = 0.00

ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Year	Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runoff ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drawdown In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
1987	510.45	421.1	89.34	12.37	8	0	2.34	0	500.1	0	0	0	0	0	28.78	0	0	394.35	105.45
1988	513.94	514.37	-0.43	13.79	10.41	0	2.06	0	501.47	0	0	0	0	0	30.91	0	0	483.46	16.33
1989	513.88	513.15	0.73	15.58	10.9	0	2.88	0	500.1	0	0	0	0	0	30.71	0	0	482.44	17.36
1990	517.5	517.01	0.49	19.14	14.18	0	3.22	0	500.1	0	0	0	0	0	30.91	0	0	486.09	13.7
1991	513.84	514.14	-0.5	15.03	11.7	0	1.84	0	500.1	0	0	0	0	0	30.91	0	0	483.23	16.56
1992	513.63	514.19	-0.56	14.07	10.59	0	1.57	0	501.47	0	0	0	0	0	30.91	0	0	483.28	16.51
1993	520.21	518.53	1.68	22.3	17.02	0	3.09	0	500.1	0	0	0	0	0	31.03	0	0	487.5	12.29
1994	510.64	510.51	0.13	12	8.8	0	1.74	0	500.1	0	0	0	0	0	30.81	0	0	479.7	20.09
1995	516.24	515	1.24	18.32	13.44	0	2.69	0	500.1	0	0	0	0	0	30.97	0	0	484.03	15.76
1996	517.08	518.52	-1.44	17.59	13.07	0	2.54	0	501.47	0	0	0	0	0	31.11	0	0	487.41	12.38
1997	515.79	517.19	-1.4	17.73	13.43	0	2.26	0	500.1	0	0	0	0	0	30.97	0	0	486.22	13.58
1998	522.01	518.03	3.98	24.28	17.28	0	4.82	0	500.1	0	0	0	0	0	30.96	0	0	487.06	12.73
1999	515.75	520.12	-4.37	17.17	13.4	0	2.25	0	500.1	0	0	0	0	0	31.14	0	0	488.99	10.81
2000	514.29	513.69	0.71	14.51	11.13	0	1.7	0	501.47	0	0	0	0	0	30.94	0	0	482.65	17.14
2001	516.55	515.75	0.79	16.1	13.67	0	2.77	0	500.1	0	0	0	0	0	30.93	0	0	484.82	14.97

AVERAGE ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runoff ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drawdown In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
516.44	509.44	7.01	16.8	12.47	0	2.5	0	501.47	0	0	0	0	0	30.69	0	0	478.75	21.04



A SUMMARY OF ACCUMULATIVE ANNUAL POND VOLUMES 88-02

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPA\W Model\Projects\Ponds\Burdock July 09\XB 88-02\XB 88-02.pnd
 File Creation Date : Jul 10, 2009 09:45:01
 File Last Modified Date : Jul 10, 2009 09:45:01
 Description : Burdock 302 AF Pond, 0.05 in/day from Mar-May and Oct; 0.11 in/day May11-Sep24; 314.5ac, bare soil; 88-02
 Simulation Start Date : Jan 01, 1988
 Simulation End Date : Dec 31, 2002
 Simulation Run Date : Jul 10, 2009 09:45
 SPAW Interface Version : Jul 10, 2009 09:45:01
 Pond Model Version : 6.02.71

WATERSHED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 88-02 0.00
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPA\W Model\Projects\Fields\Burdock July 09\XB 88-02\XB 88-02.fpin Dec 30, 1899 00:00

IRRIGATED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 88-02 314.50
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPA\W Model\Projects\Fields\Burdock July 09\XB 88-02\XB 88-02.fpin Dec 30, 1899 00:00

POND PROFILE

MAX AREA (AC) = 12.05
 MAX DEPTH (FT) = 32.50
 MAX VOLUME (AC-FT) = 295.99
 IRRIGATION LIMIT (FT) = 1.00
 EXTERNAL INPUT UPPER LIMIT (FT) = 0.00
 EXTERNAL INPUT LOWER LIMIT (FT) = 0.00
 SUPPLY PUMP LOWER LIMIT (FT) = 0.00
 DRAWDOWN PUMP UPPER LIMIT (FT) = 0.00
 DRAWDOWN PUMP LOWER LIMIT (FT) = 0.00
 SPILLWAY CREST (FT) = 32.50
 INITIAL DEPTH (FT) = 0.00
 INFIL INTO DRY SOIL (IN) = 0.00

ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Year	Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runo ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
1988	513.03	424.12	88.91	13.4	8.48	0	3.07	0	501.47	0	0	0	0	0	28.8	0	0	397.33	102.47
1989	513.88	513.15	0.73	15.58	10.9	0	2.88	0	500.1	0	0	0	0	0	30.71	0	0	482.44	17.35
1990	517.5	517.01	0.48	19.14	14.18	0	3.22	0	500.1	0	0	0	0	0	30.91	0	0	486.09	13.7
1991	513.64	514.14	-0.5	15.03	11.7	0	1.84	0	500.1	0	0	0	0	0	30.91	0	0	483.23	16.56
1992	513.63	514.19	-0.56	14.07	10.59	0	1.57	0	501.47	0	0	0	0	0	30.91	0	0	483.28	16.51
1993	520.21	518.53	1.68	22.3	17.02	0	3.09	0	500.1	0	0	0	0	0	31.03	0	0	487.5	12.29
1994	510.84	510.51	0.13	12	8.8	0	1.74	0	500.1	0	0	0	0	0	30.81	0	0	479.7	20.09
1995	518.24	515	1.24	18.32	13.44	0	2.69	0	500.1	0	0	0	0	0	30.97	0	0	484.03	15.76
1996	517.08	518.52	-1.44	17.59	13.07	0	2.54	0	501.47	0	0	0	0	0	31.11	0	0	487.41	12.38
1997	515.79	517.19	-1.4	17.73	13.43	0	2.28	0	500.1	0	0	0	0	0	30.97	0	0	486.22	13.58
1998	522.01	518.03	3.98	24.29	17.28	0	4.62	0	500.1	0	0	0	0	0	30.96	0	0	487.06	12.73
1999	515.75	520.12	-4.37	17.17	13.4	0	2.25	0	500.1	0	0	0	0	0	31.14	0	0	488.98	10.81
2000	514.29	513.59	0.71	14.51	11.13	0	1.7	0	501.47	0	0	0	0	0	30.94	0	0	482.65	17.14
2001	516.55	515.75	0.79	18.1	13.67	0	2.77	0	500.1	0	0	0	0	0	30.93	0	0	484.82	14.97
2002	511.43	512.73	-1.3	13.1	9.48	0	1.84	0	500.1	0	0	0	0	0	30.78	0	0	481.95	17.85

AVERAGE ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runo ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
516.45	509.53	6.92	16.82	12.44	0	2.54	0	501.47	0	0	0	0	0	30.68	0	0	478.85	20.95



A SUMMARY OF ACCUMULATIVE ANNUAL POND VOLUMES 89-03

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPA W Model\Projects\Ponds\Burdock July 09\XB 89-03\XB 89-03.pnd
 File Creation Date : Jul 10, 2009 10:06:33
 File Last Modified Date : Jul 10, 2009 10:06:33
 Description : Burdock 302 AF Pond, 0.05 in/day from Mar-May and Oct; 0.11 in/day May11-Sep24; 314.5ac, bare soil; 89-03
 Simulation Start Date : Jan 01, 1989
 Simulation End Date : Dec 31, 2003
 Simulation Run Date : Jul 10, 2009 10:06
 SPAW Interface Version : Jul 10, 2009 10:06:33
 Pond Model Version : 8.02.71

WATERSHED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 89-03 0.00
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPA W Model\Projects\Fields\Burdock July 09\XB 89-03\XB 89-03.fpin Dec 30, 1899 00:00

IRRIGATED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 89-03 314.50
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPA W Model\Projects\Fields\Burdock July 09\XB 89-03\XB 89-03.fpin Dec 30, 1899 00:00

POND PROFILE

MAX AREA (AC) = 12.05
 MAX DEPTH (FT) = 32.50
 MAX VOLUME (AC-FT) = 295.89
 IRRIGATION LIMIT (FT) = 1.00
 EXTERNAL INPUT UPPER LIMIT (FT) = 0.00
 EXTERNAL INPUT LOWER LIMIT (FT) = 0.00
 SUPPLY PUMP LOWER LIMIT (FT) = 0.00
 DRAWDOWN PUMP UPPER LIMIT (FT) = 0.00
 DRAWDOWN PUMP LOWER LIMIT (FT) = 0.00
 SPILLWAY CREST (FT) = 32.50
 INITIAL DEPTH (FT) = 0.00
 INFIL INTO DRY SOIL (IN) = 0.00

ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Year	Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runc ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drawdown In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
1989	513.17	423.54	89.64	15.49	9.58	0	3.49	0	500.1	0	0	0	0	0	26.71	0	0	398.83	102.97
1990	517.5	517.01	0.49	19.14	14.18	0	3.22	0	500.1	0	0	0	0	0	30.91	0	0	466.09	13.7
1991	513.64	514.14	-0.5	15.03	11.7	0	1.84	0	500.1	0	0	0	0	0	30.91	0	0	483.23	16.58
1992	513.63	514.19	-0.56	14.07	10.59	0	1.57	0	501.47	0	0	0	0	0	30.91	0	0	483.28	16.51
1993	520.21	518.63	1.58	22.3	17.02	0	3.09	0	500.1	0	0	0	0	0	31.03	0	0	487.5	12.29
1994	510.84	510.51	0.13	12	8.8	0	1.74	0	500.1	0	0	0	0	0	30.81	0	0	479.7	20.09
1995	518.24	515	1.24	18.32	13.44	0	2.69	0	500.1	0	0	0	0	0	30.97	0	0	484.03	15.76
1996	517.08	518.52	-1.44	17.59	13.07	0	2.54	0	501.47	0	0	0	0	0	31.11	0	0	487.41	12.38
1997	515.79	517.19	-1.4	17.73	13.43	0	2.26	0	500.1	0	0	0	0	0	30.97	0	0	486.22	13.58
1998	522.01	518.03	3.98	24.29	17.28	0	4.62	0	500.1	0	0	0	0	0	30.96	0	0	487.06	12.73
1999	515.75	520.12	-4.37	17.17	13.4	0	2.25	0	500.1	0	0	0	0	0	31.14	0	0	488.99	10.81
2000	514.29	513.59	0.71	14.51	11.13	0	1.7	0	501.47	0	0	0	0	0	30.94	0	0	482.65	17.14
2001	516.55	515.75	0.79	18.1	13.67	0	2.77	0	500.1	0	0	0	0	0	30.93	0	0	484.82	14.97
2002	511.43	512.73	-1.3	13.1	9.48	0	1.84	0	500.1	0	0	0	0	0	30.78	0	0	481.96	17.85
2003	513.21	512.78	0.43	14.69	11.06	0	2.05	0	500.1	0	0	0	0	0	30.81	0	0	481.97	17.82

AVERAGE ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runc ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drawdown In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
516.51	509.47	7.04	16.9	12.52	0	2.51	0	501.47	0	0	0	0	0	30.89	0	0	478.78	21.01



A SUMMARY OF ACCUMULATIVE ANNUAL POND VOLUMES 90-04

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPA W Model\Projects\Ponds\Burdock July 09\XB 90-04\XB 90-04.pnd
File Creation Date : Jul 09, 2009 13:57:49
File Last Modified Date : Jul 09, 2009 13:57:49
Description : Burdock 302 AF Pond, 0.05 in/day from Mar-May and Oct, 0.11 in/day May11-Sep24; 314.5ac, bare soil, no return RO
Simulation Start Date : Jan 01, 1990
Simulation End Date : Dec 31, 2004
Simulation Run Date : Jul 09, 2009 13:57
SPA W Interface Version : Jul 09, 2009 13:57:49
Pond Model Version : 6.02.71

WATERSHED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres 0.00
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPA W Model\Projects\Fields\Burdock 06-10-09 Trials\XB-217d-bare\XB-217d-bare.fpin Dec 30, 1899 00:00

IRRIGATED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres 314.50
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPA W Model\Projects\Fields\Burdock 06-10-09 Trials\XB-217d-bare\XB-217d-bare.fpin Dec 30, 1899 00:00

POND PROFILE

MAX AREA (AC) = 12.05
MAX DEPTH (FT) = 32.50
MAX VOLUME (AC-FT) = 295.99
IRRIGATION LIMIT (FT) = 1.00
EXTERNAL INPUT UPPER LIMIT (FT)= 0.00
EXTERNAL INPUT LOWER LIMIT (FT)= 0.00
SUPPLY PUMP LOWER LIMIT (FT) = 0.00
DRAWDOWN PUMP UPPER LIMIT (FT) = 0.00
DRAWDOWN PUMP LOWER LIMIT (FT) = 0.00
SPILLWAY CREST (FT) = 32.50
INITIAL DEPTH (FT) = 0.00
INFIL INTO DRY SOIL (IN) = 0.00

ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Year	Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runoff ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drawdown In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
1990	516.66	426.53	90.13	18.11	12.13	0	4.43	0	500.1	0	0	0	0	0	28.79	0	0	399.75	100.06
1991	513.64	514.14	-0.5	15.03	11.7	0	1.84	0	500.1	0	0	0	0	0	30.91	0	0	483.23	16.56
1992	513.63	514.19	-0.56	14.07	10.59	0	1.57	0	501.47	0	0	0	0	0	30.91	0	0	483.28	16.51
1993	520.21	518.53	1.68	22.3	17.02	0	3.09	0	500.1	0	0	0	0	0	31.03	0	0	487.5	12.29
1994	510.64	510.51	0.13	12	8.8	0	1.74	0	500.1	0	0	0	0	0	30.81	0	0	479.7	20.09
1995	516.24	515	1.24	18.32	13.44	0	2.69	0	500.1	0	0	0	0	0	30.97	0	0	484.03	15.76
1996	517.08	518.52	-1.44	17.59	13.07	0	2.54	0	501.47	0	0	0	0	0	31.11	0	0	487.41	12.38
1997	515.79	517.19	-1.4	17.73	13.43	0	2.26	0	500.1	0	0	0	0	0	30.97	0	0	486.22	13.68
1998	522.01	518.03	3.98	24.29	17.28	0	4.62	0	500.1	0	0	0	0	0	30.96	0	0	487.06	12.73
1999	515.75	520.12	-4.37	17.17	13.4	0	2.25	0	500.1	0	0	0	0	0	31.14	0	0	488.99	10.81
2000	514.29	513.59	0.71	14.51	11.13	0	1.7	0	501.47	0	0	0	0	0	30.94	0	0	482.65	17.14
2001	516.55	515.75	0.79	18.1	13.67	0	2.77	0	500.1	0	0	0	0	0	30.93	0	0	484.82	14.97
2002	511.43	512.73	-1.3	13.1	9.48	0	1.84	0	500.1	0	0	0	0	0	30.78	0	0	481.95	17.85
2003	513.21	512.78	0.43	14.69	11.06	0	2.06	0	500.1	0	0	0	0	0	30.81	0	0	481.97	17.82
2004	511.57	511	0.57	12.19	8.33	0	1.76	0	501.47	0	0	0	0	0	30.77	0	0	480.23	19.56

AVERAGE ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runoff ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drawdown In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
516.41	509.26	7.14	16.84	12.43	0	2.5	0	501.47	0	0	0	0	0	30.68	0	0	478.59	21.21



A SUMMARY OF ACCUMULATIVE ANNUAL POND VOLUMES 91-05

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Ponds\Burdock July 09\XB 91-05\XB 91-05.pnd
 File Creation Date : Jul 10, 2009 10:19:20
 File Last Modified Date : Jul 10, 2009 10:19:20
 Description : Burdock 302 AF Pond, 0.05 in/day from Mar-May and Oct; 0.11 in/day May11-Sep24; 314.5ac, bare soil; 91-05
 Simulation Start Date : Jan 01, 1991
 Simulation End Date : Dec 31, 2005
 Simulation Run Date : Jul 10, 2009 10:19
 SPAW Interface Version : Jul 10, 2009 10:19:20
 Pond Model Version : 6.02.71

WATERSHED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 91-05 0.00
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 91-05\XB 91-05.fpin Dec 30, 1899 00:00

IRRIGATED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 91-05 314.50
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 91-05\XB 91-05.fpin Dec 30, 1899 00:00

POND PROFILE

MAX AREA (AC) = 12.05
 MAX DEPTH (FT) = 32.50
 MAX VOLUME (AC-FT) = 295.99
 IRRIGATION LIMIT (FT) = 1.00
 EXTERNAL INPUT UPPER LIMIT (FT) = 0.00
 EXTERNAL INPUT LOWER LIMIT (FT) = 0.00
 SUPPLY PUMP LOWER LIMIT (FT) = 0.00
 DRAWDOWN PUMP UPPER LIMIT (FT) = 0.00
 DRAWDOWN PUMP LOWER LIMIT (FT) = 0.00
 SPILLWAY CREST (FT) = 32.50
 INITIAL DEPTH (FT) = 0.00
 INFIL INTO DRY SOIL (IN) = 0.00

ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Year	Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runoff ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drawdown In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
1991	512.86	423.23	89.63	14.99	9.91	0	2.85	0	500.1	0	0	0	0	0	28.78	0	0	396.45	103.35
1992	513.63	514.19	-0.56	14.07	10.59	0	1.57	0	501.47	0	0	0	0	0	30.91	0	0	483.28	16.51
1993	520.21	518.53	1.68	22.3	17.02	0	3.09	0	500.1	0	0	0	0	0	31.03	0	0	487.5	12.29
1994	510.64	510.51	0.13	12	8.8	0	1.74	0	500.1	0	0	0	0	0	30.81	0	0	479.7	20.09
1995	516.24	515	1.24	18.32	13.44	0	2.69	0	500.1	0	0	0	0	0	30.97	0	0	484.03	15.76
1996	517.06	518.52	-1.44	17.59	13.07	0	2.54	0	501.47	0	0	0	0	0	31.11	0	0	487.41	12.38
1997	515.79	517.19	-1.4	17.73	13.43	0	2.26	0	500.1	0	0	0	0	0	30.97	0	0	486.22	13.58
1998	522.01	518.03	3.98	24.29	17.28	0	4.62	0	500.1	0	0	0	0	0	30.96	0	0	487.06	12.73
1999	515.75	520.12	-4.37	17.17	13.4	0	2.25	0	500.1	0	0	0	0	0	31.14	0	0	488.99	10.81
2000	514.29	513.59	0.71	14.51	11.13	0	1.7	0	501.47	0	0	0	0	0	30.94	0	0	482.65	17.14
2001	516.55	515.75	0.79	18.1	13.67	0	2.77	0	500.1	0	0	0	0	0	30.93	0	0	494.82	14.97
2002	511.43	512.73	-1.3	13.1	9.48	0	1.84	0	500.1	0	0	0	0	0	30.78	0	0	481.95	17.85
2003	513.21	512.78	0.43	14.69	11.06	0	2.05	0	500.1	0	0	0	0	0	30.81	0	0	481.97	17.82
2004	511.57	511	0.57	12.19	8.33	0	1.76	0	501.47	0	0	0	0	0	30.77	0	0	480.23	19.56
2005	518.63	518.94	-0.31	20.16	15.57	0	2.95	0	500.1	0	0	0	0	0	31.06	0	0	487.88	11.91

AVERAGE ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runoff ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drawdown In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
516.49	509.36	7.12	16.9	12.54	0	2.47	0	501.47	0	0	0	0	0	30.89	0	0	478.68	21.12



A SUMMARY OF ACCUMULATIVE ANNUAL POND VOLUMES 92-06

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Ponds\Burdock July 09\VB 92-06\VB 92-06.pnd
 File Creation Date : Jul 10, 2009 10:31:49
 File Last Modified Date : Jul 10, 2009 10:31:50
 Description : Burdock 302 AF Pond, 0.05 in/day from Mar-May and Oct, 0.11 in/day May11-Sep24; 314.5ac, bare soil; 92-06
 Simulation Start Date : Jan 01, 1992
 Simulation End Date : Dec 31, 2006
 Simulation Run Date : Jul 10, 2009 10:31:49
 SPAW Interface Version : Jul 10, 2009 10:31:49
 Pond Model Version : 6.02.71

WATERSHED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 92-06 0.00
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\VB 92-06\VB 92-06.fpin Dec 30, 1999 00:00

IRRIGATED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 92-06 314.50
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\VB 92-06\VB 92-06.fpin Dec 30, 1999 00:00

POND PROFILE

MAX AREA (AC) = 12.05
 MAX DEPTH (FT) = 32.50
 MAX VOLUME (AC-FT) = 295.99
 IRRIGATION LIMIT (FT) = 1.00
 EXTERNAL INPUT UPPER LIMIT (FT)= 0.00
 EXTERNAL INPUT LOWER LIMIT (FT)= 0.00
 SUPPLY PUMP LOWER LIMIT (FT) = 0.00
 DRAWDOWN PUMP UPPER LIMIT (FT) = 0.00
 DRAWDOWN PUMP LOWER LIMIT (FT) = 0.00
 SPILLWAY CREST (FT) = 32.50
 INITIAL DEPTH (FT) = 0.00
 INFIL INTO DRY SOIL (IN) = 0.00

ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Year	Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runo ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Dnwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
1992	512.78	423.71	89.07	14.07	8.87	0	2.44	0	501.47	0	0	0	0	0	26.8	0	0	396.91	102.88
1993	520.21	518.53	1.68	22.3	17.02	0	3.09	0	500.1	0	0	0	0	0	31.03	0	0	487.5	12.29
1994	510.84	510.51	0.13	12	8.8	0	1.74	0	500.1	0	0	0	0	0	30.81	0	0	479.7	20.09
1995	516.24	515	1.24	18.32	13.44	0	2.69	0	500.1	0	0	0	0	0	30.97	0	0	484.03	15.78
1996	517.08	518.52	-1.44	17.59	13.07	0	2.54	0	501.47	0	0	0	0	0	31.11	0	0	487.41	12.38
1997	515.79	517.19	-1.4	17.73	13.43	0	2.26	0	500.1	0	0	0	0	0	30.97	0	0	486.22	13.58
1998	522.01	518.03	3.98	24.29	17.28	0	4.82	0	500.1	0	0	0	0	0	30.96	0	0	487.06	12.73
1999	515.75	520.12	-4.37	17.17	13.4	0	2.25	0	500.1	0	0	0	0	0	31.14	0	0	488.98	10.81
2000	514.29	513.59	0.71	14.51	11.13	0	1.7	0	501.47	0	0	0	0	0	30.94	0	0	482.85	17.14
2001	516.55	515.75	0.79	18.1	13.67	0	2.77	0	500.1	0	0	0	0	0	30.93	0	0	484.82	14.97
2002	511.43	512.73	-1.3	13.1	9.48	0	1.84	0	500.1	0	0	0	0	0	30.78	0	0	481.95	17.85
2003	513.21	512.78	0.43	14.89	11.06	0	2.05	0	500.1	0	0	0	0	0	30.81	0	0	481.97	17.82
2004	511.57	511	0.57	12.19	8.33	0	1.78	0	501.47	0	0	0	0	0	30.77	0	0	480.23	19.56
2005	518.83	518.94	-0.31	20.16	15.57	0	2.95	0	500.1	0	0	0	0	0	31.06	0	0	487.88	11.91
2006	511.85	512.38	-0.52	13.22	9.83	0	1.92	0	500.1	0	0	0	0	0	30.79	0	0	481.58	18.21

AVERAGE ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runo ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Dnwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
516.36	509.27	7.09	16.79	12.42	0	2.47	0	501.47	0	0	0	0	0	30.88	0	0	478.59	21.2



A SUMMARY OF ACCUMULATIVE ANNUAL POND VOLUMES 93-07

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Ponds\Burdock July 09\XB 93-07\XB 93-07.pnd
 File Creation Date : Jul 10, 2009 10:41:59
 File Last Modified Date : Jul 10, 2009 10:41:59
 Description : Burdock 302 AF Pond, 0.05 in/day from Mar-May and Oct; 0.11 in/day May11-Sep24; 314.5ac, bare soil; 93-07
 Simulation Start Date : Jan 01, 1993
 Simulation End Date : Dec 31, 2007
 Simulation Run Date : Jul 10, 2009 10:41
 SPAW Interface Version : Jul 10, 2009 10:41:59
 Pond Model Version : 8.02.71

WATERSHED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 93-07 0.00
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 93-07\XB 93-07.fpin Dec 30, 1899 00:00

IRRIGATED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 93-07 314.50
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 93-07\XB 93-07.fpin Dec 30, 1899 00:00

POND PROFILE

MAX AREA (AC) = 12.05
 MAX DEPTH (FT) = 32.50
 MAX VOLUME (AC-FT) = 295.99
 IRRIGATION LIMIT (FT) = 1.00
 EXTERNAL INPUT UPPER LIMIT (FT) = 0.00
 EXTERNAL INPUT LOWER LIMIT (FT) = 0.00
 SUPPLY PUMP LOWER LIMIT (FT) = 0.00
 DRAWDOWN PUMP UPPER LIMIT (FT) = 0.00
 DRAWDOWN PUMP LOWER LIMIT (FT) = 0.00
 SPILLWAY CREST (FT) = 32.50
 INITIAL DEPTH (FT) = 0.00
 INFIL INTO DRY SOIL (IN) = 0.00

ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Year	Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runo ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
1993	518.4	427.85	90.75	21.42	13.86	0	4.43	0	500.1	0	0	0	0	0	28.85	0	0	400.78	99
1994	510.64	510.51	0.13	12	8.8	0	1.74	0	500.1	0	0	0	0	0	30.81	0	0	479.7	20.09
1995	516.24	515	1.24	18.32	13.44	0	2.69	0	500.1	0	0	0	0	0	30.97	0	0	484.03	15.76
1996	517.08	518.52	-1.44	17.59	13.07	0	2.54	0	501.47	0	0	0	0	0	31.11	0	0	487.41	12.38
1997	515.79	517.19	-1.4	17.73	13.43	0	2.26	0	500.1	0	0	0	0	0	30.97	0	0	486.22	13.58
1998	522.01	518.03	3.98	24.29	17.28	0	4.62	0	500.1	0	0	0	0	0	30.96	0	0	487.06	12.73
1999	515.75	520.12	-4.37	17.17	13.4	0	2.25	0	500.1	0	0	0	0	0	31.14	0	0	488.99	10.81
2000	514.29	513.59	0.71	14.51	11.13	0	1.7	0	501.47	0	0	0	0	0	30.94	0	0	482.65	17.14
2001	516.55	515.75	0.79	18.1	13.67	0	2.77	0	500.1	0	0	0	0	0	30.93	0	0	484.82	14.97
2002	511.43	512.73	-1.3	13.1	9.48	0	1.84	0	500.1	0	0	0	0	0	30.78	0	0	481.95	17.85
2003	513.21	512.78	0.43	14.69	11.06	0	2.05	0	500.1	0	0	0	0	0	30.81	0	0	481.97	17.82
2004	511.57	511	0.57	12.19	8.33	0	1.76	0	501.47	0	0	0	0	0	30.77	0	0	480.23	19.56
2005	518.63	518.94	-0.31	20.16	15.57	0	2.96	0	500.1	0	0	0	0	0	31.06	0	0	487.88	11.91
2006	511.85	512.38	-0.52	13.22	9.83	0	1.92	0	500.1	0	0	0	0	0	30.79	0	0	481.58	18.21
2007	512.74	511.96	0.78	14.34	10.38	0	2.25	0	500.1	0	0	0	0	0	30.76	0	0	481.2	18.59

AVERAGE ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runo ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
516.4	509.1	7.3	16.82	12.37	0	2.56	0	501.47	0	0	0	0	0	30.87	0	0	478.43	21.36



A SUMMARY OF ACCUMULATIVE ANNUAL POND VOLUMES 94-80

SIMULATION FOR:

File : G:\10200279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Ponds\Burdock July 09\XB 94-80\XB 94-80.pnd
 File Creation Date : Jul 10, 2009 10:53:20
 File Last Modified Date : Jul 10, 2009 10:53:20
 Description : Burdock 302 AF Pond, 0.05 in/day from Mar-May and Oct; 0.11 in/day May11-Sep24; 314.5ac, bare soil; 94-80
 Simulation Start Date : Jan 01, 1994
 Simulation End Date : Dec 31, 2008
 Simulation Run Date : Jul 10, 2009 10:53
 SPAW Interface Version : Jul 10, 2009 10:53:20
 Pond Model Version : 8.02.71

WATERSHED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 94-80 0.00
 G:\10200279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 94-80\XB 94-80.fpin Dec 30, 1899 00:00

IRRIGATED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 94-80 314.50
 G:\10200279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 94-80\XB 94-80.fpin Dec 30, 1899 00:00

POND PROFILE

MAX AREA (AC) = 12.06
 MAX DEPTH (FT) = 32.50
 MAX VOLUME (AC-FT) = 295.99
 IRRIGATION LIMIT (FT) = 1.00
 EXTERNAL INPUT UPPER LIMIT (FT)= 0.00
 EXTERNAL INPUT LOWER LIMIT (FT)= 0.00
 SUPPLY PUMP LOWER LIMIT (FT) = 0.00
 DRAWDOWN PUMP UPPER LIMIT (FT) = 0.00
 DRAWDOWN PUMP LOWER LIMIT (FT) = 0.00
 SPILLWAY CREST (FT) = 32.50
 INITIAL DEPTH (FT) = 0.00
 INFIL INTO DRY SOIL (IN) = 0.00

ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Year	Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runc ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Dnwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
1994	510.06	419.18	90.88	12	7.59	0	2.36	0	500.1	0	0	0	0	0	26.73	0	0	392.45	107.34
1995	516.24	515	1.24	18.32	13.44	0	2.69	0	500.1	0	0	0	0	0	30.97	0	0	484.03	15.76
1996	517.08	518.52	-1.44	17.59	13.07	0	2.54	0	501.47	0	0	0	0	0	31.11	0	0	487.41	12.38
1997	515.79	517.19	-1.4	17.73	13.43	0	2.26	0	500.1	0	0	0	0	0	30.87	0	0	496.22	13.58
1998	522.01	518.03	3.98	24.29	17.28	0	4.62	0	500.1	0	0	0	0	0	30.98	0	0	487.06	12.73
1999	515.75	520.12	-4.37	17.17	13.4	0	2.25	0	500.1	0	0	0	0	0	31.14	0	0	488.99	10.81
2000	514.29	513.59	0.71	14.51	11.13	0	1.7	0	501.47	0	0	0	0	0	30.94	0	0	482.65	17.14
2001	516.55	515.75	0.79	18.1	13.67	0	2.77	0	500.1	0	0	0	0	0	30.93	0	0	484.82	14.97
2002	511.43	512.73	-1.3	13.1	9.48	0	1.84	0	500.1	0	0	0	0	0	30.78	0	0	481.95	17.85
2003	513.21	512.78	0.43	14.69	11.06	0	2.05	0	500.1	0	0	0	0	0	30.81	0	0	481.97	17.82
2004	511.57	511	0.57	12.19	8.33	0	1.76	0	501.47	0	0	0	0	0	30.77	0	0	480.23	19.56
2005	518.63	518.94	-0.31	20.16	15.57	0	2.95	0	500.1	0	0	0	0	0	31.06	0	0	487.88	11.91
2006	511.85	512.38	-0.52	13.22	9.83	0	1.82	0	500.1	0	0	0	0	0	30.79	0	0	481.58	18.21
2007	512.74	511.96	0.78	14.34	10.38	0	2.25	0	500.1	0	0	0	0	0	30.76	0	0	481.2	18.59
2008	516.75	516.58	0.19	16.74	12.91	0	2.37	0	501.47	0	0	0	0	0	31.07	0	0	485.5	14.3

AVERAGE ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runc ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Dnwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
516.09	508.94	7.15	16.43	12.17	0	2.45	0	501.47	0	0	0	0	0	30.88	0	0	478.28	21.53



A SUMMARY OF ACCUMULATIVE ANNUAL POND VOLUMES 95-81

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Ponds\Burdock July 09\XB 95-81\XB 95-81.pnd
 File Creation Date : Jul 10, 2009 11:05:08
 File Last Modified Date : Jul 10, 2009 11:05:09
 Description : Burdock 302 AF Pond, 0.05 in/day from Mar-May and Oct, 0.11 in/day May11-Sep24; 314.5 ac, bare soil; 95-81
 Simulation Start Date : Jan 01, 1985
 Simulation End Date : Dec 31, 2009
 Simulation Run Date : Jul 10, 2009 11:05
 SPAW Interface Version : Jul 10, 2009 11:05:09
 Pond Model Version : 6.02.71

WATERSHED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 95-81 0.00
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 95-81\XB 95-81.pin Dec 30, 1989 00:00

IRRIGATED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 95-81 314.50
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 95-81\XB 95-81.pin Dec 30, 1989 00:00

POND PROFILE

MAX AREA (AC) = 12.05
 MAX DEPTH (FT) = 32.50
 MAX VOLUME (AC-FT) = 295.99
 IRRIGATION LIMIT (FT) = 1.00
 EXTERNAL INPUT UPPER LIMIT (FT) = 0.00
 EXTERNAL INPUT LOWER LIMIT (FT) = 0.00
 SUPPLY PUMP LOWER LIMIT (FT) = 0.00
 DRAWDOWN PUMP UPPER LIMIT (FT) = 0.00
 DRAWDOWN PUMP LOWER LIMIT (FT) = 0.00
 SPILLWAY CREST (FT) = 32.50
 INITIAL DEPTH (FT) = 0.00
 INFIL INTO DRY SOIL (IN) = 0.00

ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Year	Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runoff ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft
1995	515.04	422.92	92.12	18.14	11.6	0	3.34	0	500.1	0	0	0	0	0	28.81	0	0	396.12
1996	517.08	518.52	-1.44	17.59	13.07	0	2.54	0	501.47	0	0	0	0	0	31.11	0	0	487.41
1997	515.79	517.19	-1.4	17.73	13.43	0	2.26	0	500.1	0	0	0	0	0	30.97	0	0	486.22
1998	522.01	518.03	3.98	24.29	17.28	0	4.82	0	500.1	0	0	0	0	0	30.96	0	0	487.06
1999	515.75	520.12	-4.37	17.17	13.4	0	2.25	0	500.1	0	0	0	0	0	31.14	0	0	488.99
2000	514.29	513.59	0.71	14.51	11.13	0	1.7	0	501.47	0	0	0	0	0	30.94	0	0	482.65
2001	518.55	515.75	0.79	18.1	13.87	0	2.77	0	500.1	0	0	0	0	0	30.93	0	0	484.82
2002	511.43	512.73	-1.3	13.1	9.48	0	1.84	0	500.1	0	0	0	0	0	30.78	0	0	481.95
2003	513.21	512.78	0.43	14.69	11.08	0	2.05	0	500.1	0	0	0	0	0	30.81	0	0	481.97
2004	511.57	511	0.57	12.19	8.33	0	1.76	0	501.47	0	0	0	0	0	30.77	0	0	480.23
2005	518.83	518.94	-0.31	20.18	15.57	0	2.95	0	500.1	0	0	0	0	0	31.05	0	0	487.88
2006	511.85	512.38	-0.52	13.22	9.83	0	1.92	0	500.1	0	0	0	0	0	30.79	0	0	481.58
2007	512.74	511.96	0.78	14.34	10.38	0	2.25	0	500.1	0	0	0	0	0	30.76	0	0	481.2
2008	516.75	516.58	0.19	16.74	12.91	0	2.37	0	501.47	0	0	0	0	0	31.07	0	0	485.5
2009	512.18	511.58	0.6	13.46	9.96	0	2.12	0	500.1	0	0	0	0	0	30.82	0	0	480.76

AVERAGE ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runoff ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft
516.15	508.98	7.19	16.52	12.2	0	2.48	0	501.47	0	0	0	0	0	30.67	0	0	478.29



A SUMMARY OF ACCUMULATIVE ANNUAL POND VOLUMES 96-82

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Ponds\Burdock July 09\XB 96-82\XB 96-82.prd
File Creation Date : Jul 10, 2009 11:14:30
File Last Modified Date : Jul 10, 2009 11:14:30
Description : Burdock 302 AF Pond, 0.05 in/day from Mar-May and Oct; 0.11 in/day May11-Sep24; 314.5ac, bare soil; 96-82
Simulation Start Date : Jan 01, 1996
Simulation End Date : Dec 31, 2010
Simulation Run Date : Jul 10, 2009 11:14
SPAW Interface Version : Jul 10, 2009 11:14:30
Pond Model Version : 6.02.71

WATERSHED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 96-82 0.00
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 96-82\XB 96-82.fpin Dec 30, 1899 00:00

IRRIGATED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 96-82 314.50
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 96-82\XB 96-82.fpin Dec 30, 1899 00:00

POND PROFILE

MAX AREA (AC) = 12.06
MAX DEPTH (FT) = 32.50
MAX VOLUME (AC-FT) = 265.99
IRRIGATION LIMIT (FT) = 1.00
EXTERNAL INPUT UPPER LIMIT (FT) = 0.00
EXTERNAL INPUT LOWER LIMIT (FT) = 0.00
SUPPLY PUMP LOWER LIMIT (FT) = 0.00
DRAWDOWN PUMP UPPER LIMIT (FT) = 0.00
DRAWDOWN PUMP LOWER LIMIT (FT) = 0.00
SPILLWAY CREST (FT) = 32.50
INITIAL DEPTH (FT) = 0.00
INFIL. INTO DRY SOIL (IN) = 0.00

ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Year	Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runo ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
1996	516.34	425.66	90.68	17.59	11.35	0	3.52	0	501.47	0	0	0	0	0	28.86	0	0	398.8	100.99
1997	515.79	517.19	-1.4	17.73	13.43	0	2.26	0	500.1	0	0	0	0	0	30.97	0	0	486.22	13.58
1998	522.01	518.03	3.98	24.29	17.28	0	4.62	0	500.1	0	0	0	0	0	30.96	0	0	487.06	12.73
1999	515.75	520.12	-4.37	17.17	13.4	0	2.25	0	500.1	0	0	0	0	0	31.14	0	0	488.99	10.81
2000	514.29	513.59	0.71	14.51	11.13	0	1.7	0	501.47	0	0	0	0	0	30.94	0	0	482.65	17.14
2001	516.55	515.75	0.79	18.1	13.67	0	2.77	0	500.1	0	0	0	0	0	30.93	0	0	484.82	14.97
2002	511.43	512.73	-1.3	13.1	9.48	0	1.84	0	500.1	0	0	0	0	0	30.78	0	0	481.95	17.85
2003	513.21	512.78	0.43	14.89	11.06	0	2.05	0	500.1	0	0	0	0	0	30.81	0	0	481.97	17.82
2004	511.57	511	0.57	12.19	8.33	0	1.76	0	501.47	0	0	0	0	0	30.77	0	0	480.23	19.56
2005	518.63	518.94	-0.31	20.16	15.57	0	2.95	0	500.1	0	0	0	0	0	31.06	0	0	487.88	11.91
2006	511.85	512.38	-0.52	13.22	9.83	0	1.92	0	500.1	0	0	0	0	0	30.79	0	0	481.58	18.21
2007	512.74	511.96	0.78	14.34	10.38	0	2.25	0	500.1	0	0	0	0	0	30.76	0	0	481.2	18.59
2008	516.75	516.56	0.19	16.74	12.91	0	2.37	0	501.47	0	0	0	0	0	31.07	0	0	485.5	14.3
2009	512.18	511.58	0.6	13.46	9.96	0	2.12	0	500.1	0	0	0	0	0	30.82	0	0	480.76	19.03
2010	519.33	518.79	0.54	21.88	15.84	0	3.28	0	500.1	0	0	0	0	0	31.01	0	0	487.78	12.01

AVERAGE ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runo ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
516.39	509.16	7.23	16.77	12.38	0	2.54	0	501.47	0	0	0	0	0	30.87	0	0	478.49	21.3



A SUMMARY OF ACCUMULATIVE ANNUAL POND VOLUMES 97-83

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPA W Model\Projects\Ponds\Burdock July 08\XB 97-83\XB 97-83.pnd
 File Creation Date : Jul 10, 2009 12:49:16
 File Last Modified Date : Jul 10, 2009 12:49:16
 Description : Burdock 302 AF Pond, 0.05 in/day from Mar-May and Oct; 0.11 in/day May11-Sep24; 314.5 ac, bare soil; 97-83
 Simulation Start Date : Jan 01, 1997
 Simulation End Date : Dec 31, 2011
 Simulation Run Date : Jul 10, 2009 12:49:16
 SPAW Interface Version : Jul 10, 2009 12:49:16
 Pond Model Version : 6.02.71

WATERSHED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 97-83 0.00
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPA W Model\Projects\Fields\Burdock July 08\XB 97-83\XB 97-83.fpin Dec 30, 1999 00:00

IRRIGATED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 97-83 314.50
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPA W Model\Projects\Fields\Burdock July 08\XB 97-83\XB 97-83.fpin Dec 30, 1999 00:00

POND PROFILE

MAX AREA (AC) = 12.05
 MAX DEPTH (FT) = 32.50
 MAX VOLUME (AC-FT) = 295.99
 IRRIGATION LIMIT (FT) = 1.00
 EXTERNAL INPUT UPPER LIMIT (FT) = 0.00
 EXTERNAL INPUT LOWER LIMIT (FT) = 0.00
 SUPPLY PUMP LOWER LIMIT (FT) = 0.00
 DRAWDOWN PUMP UPPER LIMIT (FT) = 0.00
 DRAWDOWN PUMP LOWER LIMIT (FT) = 0.00
 SPILLWAY CREST (FT) = 32.50
 INITIAL DEPTH (FT) = 0.00
 INFIL INTO DRY SOIL (IN) = 0.00

ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Year	Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runoff ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
1997	514.82	425.54	89.28	17.73	11.22	0	3.5	0	500.1	0	0	0	0	0	26.78	0	0	398.78	101.03
1998	522.01	518.03	3.98	24.29	17.28	0	4.82	0	500.1	0	0	0	0	0	30.96	0	0	487.06	12.73
1999	515.75	520.12	-4.37	17.17	13.4	0	2.25	0	500.1	0	0	0	0	0	31.14	0	0	488.99	10.81
2000	514.28	513.59	0.71	14.51	11.13	0	1.7	0	501.47	0	0	0	0	0	30.94	0	0	482.65	17.14
2001	516.55	515.75	0.79	18.1	13.67	0	2.77	0	500.1	0	0	0	0	0	30.93	0	0	484.82	14.97
2002	511.43	512.73	-1.3	13.1	9.48	0	1.84	0	500.1	0	0	0	0	0	30.78	0	0	481.95	17.85
2003	513.21	512.78	0.43	14.69	11.06	0	2.05	0	500.1	0	0	0	0	0	30.81	0	0	481.97	17.82
2004	511.57	511	0.57	12.19	8.33	0	1.78	0	501.47	0	0	0	0	0	30.77	0	0	480.23	19.56
2005	518.83	518.94	-0.31	20.16	15.57	0	2.95	0	500.1	0	0	0	0	0	31.06	0	0	487.88	11.91
2006	511.85	512.38	-0.52	13.22	9.83	0	1.82	0	500.1	0	0	0	0	0	30.79	0	0	481.58	18.21
2007	512.74	511.96	0.78	14.34	10.38	0	2.25	0	500.1	0	0	0	0	0	30.76	0	0	481.2	16.69
2008	516.75	516.56	0.19	16.74	12.81	0	2.37	0	501.47	0	0	0	0	0	31.07	0	0	485.5	14.3
2009	512.18	511.58	0.6	13.46	9.96	0	2.12	0	500.1	0	0	0	0	0	30.82	0	0	480.78	19.03
2010	519.33	518.79	0.54	21.88	15.94	0	3.28	0	500.1	0	0	0	0	0	31.01	0	0	487.78	12.01
2011	514.37	514.89	-0.53	16.16	11.7	0	2.57	0	500.1	0	0	0	0	0	30.9	0	0	483.99	15.8

AVERAGE ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runoff ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
516.35	509	7.35	18.74	12.31	0	2.57	0	501.47	0	0	0	0	0	30.88	0	0	478.34	21.45



A SUMMARY OF ACCUMULATIVE ANNUAL POND VOLUMES 98-84

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Ponds\Burdock July 09\XB 98-84\XB 98-84.pnd
 File Creation Date : Jul 10, 2009 13:00:58
 File Last Modified Date : Jul 10, 2009 13:00:58
 Description : Burdock 302 AF Pond, 0.05 in/day from Mar-May and Oct; 0.11 in/day May11-Sep24; 314.5 ac, bare soil; 98-84
 Simulation Start Date : Jan 01, 1998
 Simulation End Date : Dec 31, 2012
 Simulation Run Date : Jul 10, 2009 13:00
 SPAW Interface Version : Jul 10, 2009 13:00:58
 Pond Model Version : 6.02.71

WATERSHED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 98-84 0.00
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 98-84\XB 98-84.fpin Dec 30, 1899 00:00

IRRIGATED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 98-84 314.50
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 98-84\XB 98-84.fpin Dec 30, 1899 00:00

POND PROFILE

MAX AREA (AC) = 12.05
 MAX DEPTH (FT) = 32.50
 MAX VOLUME (AC-FT) = 286.89
 IRRIGATION LIMIT (FT) = 1.00
 EXTERNAL INPUT UPPER LIMIT (FT) = 0.00
 EXTERNAL INPUT LOWER LIMIT (FT) = 0.00
 SUPPLY PUMP LOWER LIMIT (FT) = 0.00
 DRAWDOWN PUMP UPPER LIMIT (FT) = 0.00
 DRAWDOWN PUMP LOWER LIMIT (FT) = 0.00
 SPILLWAY CREST (FT) = 32.50
 INITIAL DEPTH (FT) = 0.00
 INFIL. INTO DRY SOIL (IN) = 0.00

ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Year	Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runo ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
1998	521.14	427.88	93.26	24.29	15.09	0	5.95	0	500.1	0	0	0	0	0	26.84	0	0	401.04	98.75
1999	515.75	520.12	-4.37	17.17	13.4	0	2.25	0	500.1	0	0	0	0	0	31.14	0	0	488.98	10.81
2000	514.29	513.59	0.71	14.51	11.13	0	1.7	0	501.47	0	0	0	0	0	30.94	0	0	482.65	17.14
2001	516.55	515.75	0.79	18.1	13.67	0	2.77	0	500.1	0	0	0	0	0	30.93	0	0	484.82	14.97
2002	511.43	512.73	-1.3	13.1	9.48	0	1.84	0	500.1	0	0	0	0	0	30.78	0	0	481.95	17.85
2003	513.21	512.78	0.43	14.69	11.06	0	2.05	0	500.1	0	0	0	0	0	30.81	0	0	481.97	17.82
2004	511.57	511	0.57	12.19	8.33	0	1.76	0	501.47	0	0	0	0	0	30.77	0	0	480.23	18.56
2005	518.63	518.94	-0.31	20.16	15.57	0	2.95	0	500.1	0	0	0	0	0	31.06	0	0	487.88	11.81
2006	511.85	512.38	-0.52	13.22	9.83	0	1.92	0	500.1	0	0	0	0	0	30.79	0	0	481.58	18.21
2007	512.74	511.96	0.78	14.34	10.38	0	2.25	0	500.1	0	0	0	0	0	30.76	0	0	481.2	18.59
2008	518.75	516.56	0.19	16.74	12.91	0	2.37	0	501.47	0	0	0	0	0	31.07	0	0	485.5	14.3
2009	512.18	511.58	0.6	13.46	9.96	0	2.12	0	500.1	0	0	0	0	0	30.82	0	0	480.78	19.03
2010	519.33	518.79	0.54	21.88	15.94	0	3.28	0	500.1	0	0	0	0	0	31.01	0	0	487.78	12.01
2011	514.37	514.89	-0.53	16.16	11.7	0	2.57	0	500.1	0	0	0	0	0	30.9	0	0	483.99	15.8
2012	516.37	517.79	-1.42	16.9	13.11	0	1.79	0	501.47	0	0	0	0	0	31.11	0	0	486.69	13.11

AVERAGE ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runo ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
516.24	509.14	7.1	16.62	12.23	0	2.53	0	501.47	0	0	0	0	0	30.67	0	0	478.47	21.32



A SUMMARY OF ACCUMULATIVE ANNUAL POND VOLUMES 99-85

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Ponds\Burdock July 09\XB 99-85\XB 99-85.pnd
 File Creation Date : Jul 10, 2009 13:08:52
 File Last Modified Date : Jul 10, 2009 13:08:52
 Description : Burdock 302 AF Pond, 0.05 in/day from Mar-May and Oct; 0.11in/day May11-Sep24;314.5ac, bare soil; 99-85
 Simulation Start Date : Jan 01, 1999
 Simulation End Date : Dec 31, 2013
 Simulation Run Date : Jul 10, 2009 13:08
 SPAW Interface Version : Jul 10, 2009 13:08:52
 Pond Model Version : 6.02.71

WATERSHED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 99-85 0.00
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 99-85\XB 99-85.fpin Dec 30, 1899 00:00

IRRIGATED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 99-85 314.50
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 99-85\XB 99-85.fpin Dec 30, 1899 00:00

POND PROFILE

MAX AREA (AC) = 12.05
 MAX DEPTH (FT) = 32.50
 MAX VOLUME (AC-FT) = 295.99
 IRRIGATION LIMIT (FT) = 1.00
 EXTERNAL INPUT UPPER LIMIT (FT)= 0.00
 EXTERNAL INPUT LOWER LIMIT (FT)= 0.00
 SUPPLY PUMP LOWER LIMIT (FT) = 0.00
 DRAWDOWN PUMP UPPER LIMIT (FT) = 0.00
 DRAWDOWN PUMP LOWER LIMIT (FT) = 0.00
 SPILLWAY CREST (FT) = 32.50
 INITIAL DEPTH (FT) = 0.00
 INFIL INTO DRY SOIL (IN) = 0.00

ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Year	Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runoff ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
1999	514.89	425.99	88.89	17.17	11.22	0	3.56	0	500.1	0	0	0	0	0	26.81	0	0	399.19	100.81
2000	514.29	513.58	0.71	14.51	11.13	0	1.7	0	501.47	0	0	0	0	0	30.94	0	0	482.65	17.14
2001	516.56	515.75	0.79	18.1	13.67	0	2.77	0	500.1	0	0	0	0	0	30.83	0	0	484.82	14.97
2002	511.43	512.73	-1.3	13.1	9.48	0	1.84	0	500.1	0	0	0	0	0	30.78	0	0	481.95	17.85
2003	513.21	512.78	0.43	14.69	11.06	0	2.05	0	500.1	0	0	0	0	0	30.81	0	0	481.87	17.82
2004	511.57	511	0.57	12.19	8.33	0	1.76	0	501.47	0	0	0	0	0	30.77	0	0	480.23	19.56
2005	518.63	518.94	-0.31	20.16	15.57	0	2.95	0	500.1	0	0	0	0	0	31.06	0	0	487.88	11.91
2006	511.85	512.38	-0.52	13.22	9.83	0	1.92	0	500.1	0	0	0	0	0	30.79	0	0	481.58	18.21
2007	512.74	511.96	0.78	14.34	10.38	0	2.25	0	500.1	0	0	0	0	0	30.76	0	0	481.2	18.99
2008	516.75	516.56	0.19	16.74	12.91	0	2.37	0	501.47	0	0	0	0	0	31.07	0	0	485.5	14.3
2009	512.18	511.58	0.6	13.48	9.96	0	2.12	0	500.1	0	0	0	0	0	30.82	0	0	480.76	19.03
2010	519.33	518.79	0.54	21.88	15.94	0	3.28	0	500.1	0	0	0	0	0	31.01	0	0	487.78	12.01
2011	514.37	514.89	-0.53	16.16	11.7	0	2.67	0	500.1	0	0	0	0	0	30.9	0	0	483.99	15.8
2012	516.37	517.79	-1.42	16.9	13.11	0	1.79	0	501.47	0	0	0	0	0	31.11	0	0	486.69	13.11
2013	510.18	510.4	-0.22	11.75	8.72	0	1.35	0	500.1	0	0	0	0	0	30.74	0	0	479.66	20.13

AVERAGE ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runoff ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
515.45	508.37	7.08	15.78	11.66	0	2.31	0	501.47	0	0	0	0	0	30.84	0	0	477.72	22.07



A SUMMARY OF ACCUMULATIVE ANNUAL POND VOLUMES 00-86

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Ponds\Burdock July 09\XB 00-86\XB 00-86.pnd
 File Creation Date : Jul 10, 2009 13:35:17
 File Last Modified Date : Jul 10, 2009 13:35:17
 Description : Burdock 302 AF Pond, 0.05 in/day from Mar-May and Oct; 0.11 in/day May11-Sep24; 314.5ac, bare soil; 00-86
 Simulation Start Date : Jan 01, 2000
 Simulation End Date : Dec 31, 2014
 Simulation Run Date : Jul 10, 2009 13:35
 SPAW Interface Version : Jul 10, 2009 13:35:17
 Pond Model Version : 8.02.71

WATERSHED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 00-86 0.00
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 00-86\Fpin Dec 30, 1899 00:00

IRRIGATED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 00-86 314.50
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 00-86\Fpin Dec 30, 1899 00:00

POND PROFILE

MAX AREA (AC) = 12.05
 MAX DEPTH (FT) = 32.50
 MAX VOLUME (AC-FT) = 295.99
 IRRIGATION LIMIT (FT) = 1.00
 EXTERNAL INPUT UPPER LIMIT (FT)= 0.00
 EXTERNAL INPUT LOWER LIMIT (FT)= 0.00
 SUPPLY PUMP LOWER LIMIT (FT) = 0.00
 DRAWDOWN PUMP UPPER LIMIT (FT) = 0.00
 DRAWDOWN PUMP LOWER LIMIT (FT) = 0.00
 SPILLWAY CREST (FT) = 32.50
 INITIAL DEPTH (FT) = 0.00
 INFIL. INTO DRY SOIL (IN) = 0.00

ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Year	Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runoff ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
2000	513.72	424.12	89.6	14.51	9.54	0	2.71	0	501.47	0	0	0	0	0	26.88	0	0	397.25	102.55
2001	516.55	516.75	0.79	18.1	13.67	0	2.77	0	500.1	0	0	0	0	0	30.83	0	0	484.82	14.97
2002	511.43	512.73	-1.3	13.1	9.48	0	1.84	0	500.1	0	0	0	0	0	30.78	0	0	481.95	17.85
2003	513.21	512.78	0.43	14.69	11.06	0	2.05	0	500.1	0	0	0	0	0	30.81	0	0	481.87	17.82
2004	511.57	511	0.57	12.19	8.33	0	1.76	0	501.47	0	0	0	0	0	30.77	0	0	480.23	19.58
2005	518.63	518.94	-0.31	20.16	15.57	0	2.95	0	500.1	0	0	0	0	0	31.08	0	0	487.88	11.91
2006	511.85	512.38	-0.52	13.22	9.83	0	1.92	0	500.1	0	0	0	0	0	30.79	0	0	481.58	16.21
2007	512.74	511.96	0.78	14.34	10.38	0	2.25	0	500.1	0	0	0	0	0	30.78	0	0	481.2	18.99
2008	516.75	516.56	0.19	16.74	12.91	0	2.37	0	501.47	0	0	0	0	0	31.07	0	0	485.5	14.3
2009	512.18	511.58	0.6	13.46	9.96	0	2.12	0	500.1	0	0	0	0	0	30.82	0	0	480.76	19.03
2010	519.33	518.79	0.54	21.88	15.94	0	3.28	0	500.1	0	0	0	0	0	31.01	0	0	487.78	12.01
2011	514.37	514.89	-0.53	16.16	11.7	0	2.57	0	500.1	0	0	0	0	0	30.9	0	0	483.99	15.8
2012	516.37	517.79	-1.42	16.9	13.11	0	1.79	0	501.47	0	0	0	0	0	31.11	0	0	486.69	13.11
2013	510.18	510.4	-0.22	11.75	8.72	0	1.35	0	500.1	0	0	0	0	0	30.74	0	0	479.66	20.13
2014	521.25	517.6	3.65	23.59	18.85	0	4.3	0	500.1	0	0	0	0	0	31.01	0	0	488.59	13.2

AVERAGE ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

	Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runoff ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
	515.84	508.51	7.33	16.21	11.93	0	2.43	0	501.47	0	0	0	0	0	30.85	0	0	477.86	21.94



A SUMMARY OF ACCUMULATIVE ANNUAL POND VOLUMES 01-87

SIMULATION FOR:

File : G:\10200279.02\Data Info\DB Land Application-Irrigation\SPA W Model\Projects\Ponds\Burdock July 09\XB 01-87\XB 01-87.pnd
 File Creation Date : Jul 10, 2009 13:44:37
 File Last Modified Date : Jul 10, 2009 13:44:38
 Description : Burdock 302 AF Pond, 0.05 in/day from Mar-May and Oct; 0.11 in/day May11-Sep24; 314.5ac, bare soil; 01-87
 Simulation Start Date : Jan 01, 2001
 Simulation End Date : Dec 31, 2015
 Simulation Run Date : Jul 10, 2009 13:44
 SPAW Interface Version : Jul 10, 2009 13:44:37
 Pond Model Version : 6.02.71

WATERSHED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 01-87 0.00
 G:\10200279.02\Data Info\DB Land Application-Irrigation\SPA W Model\Projects\Fields\Burdock July 09\XB 01-87\XB 01-87.fpin Dec 30, 1899 00:00

IRRIGATED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 01-87 314.50
 G:\10200279.02\Data Info\DB Land Application-Irrigation\SPA W Model\Projects\Fields\Burdock July 09\XB 01-87\XB 01-87.fpin Dec 30, 1899 00:00

POND PROFILE

MAX AREA (AC) = 12.05
 MAX DEPTH (FT) = 32.50
 MAX VOLUME (AC-FT) = 286.88
 IRRIGATION LIMIT (FT) = 1.00
 EXTERNAL INPUT UPPER LIMIT (FT) = 0.00
 EXTERNAL INPUT LOWER LIMIT (FT) = 0.00
 SUPPLY PUMP LOWER LIMIT (FT) = 0.00
 DRAWDOWN PUMP UPPER LIMIT (FT) = 0.00
 DRAWDOWN PUMP LOWER LIMIT (FT) = 0.00
 SPILLWAY CREST (FT) = 32.50
 INITIAL DEPTH (FT) = 0.00
 INFIL. INTO DRY SOIL (IN) = 0.00

ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Year	Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runoff ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
2001	515.81	425.42	90.39	18.1	11.57	0	4.14	0	500.1	0	0	0	0	0	26.79	0	0	388.63	101.17
2002	511.43	512.73	-1.3	13.1	9.48	0	1.84	0	500.1	0	0	0	0	0	30.78	0	0	481.85	17.85
2003	513.21	512.78	0.43	14.69	11.06	0	2.06	0	500.1	0	0	0	0	0	30.81	0	0	481.97	17.82
2004	511.67	511	0.57	12.19	8.33	0	1.76	0	501.47	0	0	0	0	0	30.77	0	0	480.23	19.56
2005	518.83	518.94	-0.31	20.16	15.57	0	2.96	0	500.1	0	0	0	0	0	31.06	0	0	487.88	11.91
2006	511.86	512.38	-0.52	13.22	9.83	0	1.92	0	500.1	0	0	0	0	0	30.79	0	0	481.58	18.21
2007	512.74	511.98	0.78	14.34	10.38	0	2.25	0	500.1	0	0	0	0	0	30.76	0	0	481.2	18.59
2008	518.75	516.66	0.19	16.74	12.91	0	2.37	0	501.47	0	0	0	0	0	31.07	0	0	485.5	14.3
2009	512.18	511.58	0.6	13.46	9.98	0	2.12	0	500.1	0	0	0	0	0	30.82	0	0	480.76	19.03
2010	519.33	518.79	0.54	21.88	15.94	0	3.28	0	500.1	0	0	0	0	0	31.01	0	0	487.78	12.01
2011	514.37	514.89	-0.53	16.16	11.7	0	2.57	0	500.1	0	0	0	0	0	30.9	0	0	483.88	15.8
2012	518.37	517.79	-1.42	16.9	13.11	0	1.79	0	501.47	0	0	0	0	0	31.11	0	0	488.69	13.11
2013	510.18	510.4	-0.22	11.75	8.72	0	1.35	0	500.1	0	0	0	0	0	30.74	0	0	479.66	20.13
2014	521.25	517.6	3.65	23.59	16.85	0	4.3	0	500.1	0	0	0	0	0	31.01	0	0	488.98	13.2
2015	511.06	514.58	-3.52	12.37	9.47	0	1.48	0	500.1	0	0	0	0	0	30.98	0	0	483.6	16.19

AVERAGE ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runoff ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
515.77	508.52	7.25	16.14	11.85	0	2.45	0	501.47	0	0	0	0	0	30.85	0	0	477.87	21.83



A SUMMARY OF ACCUMULATIVE ANNUAL POND VOLUMES 02-88

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Ponds\Burdock July 09\XB 02-88\XB 02-88.pnd
 File Creation Date : Jul 10, 2009 13:54:02
 File Last Modified Date : Jul 10, 2009 13:54:02
 Description : Burdock 302 AF Pond, 0.05 in/day from Mar-May and Oct; 0.11 in/day May11-Sep24; 314.5 ac, bare soil; 02-88
 Simulation Start Date : Jan 01, 2002
 Simulation End Date : Dec 31, 2018
 Simulation Run Date : Jul 10, 2009 13:54
 SPAW Interface Version : Jul 10, 2009 13:54:01
 Pond Model Version : 6.02.71

WATERSHED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 02-88 0.00
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 02-88\XB 02-88.fpin Dec 30, 1899 00:00

IRRIGATED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 02-88 314.50
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 02-88\XB 02-88.fpin Dec 30, 1899 00:00

POND PROFILE

MAX AREA (AC) = 12.05
 MAX DEPTH (FT) = 32.50
 MAX VOLUME (AC-FT) = 295.99
 IRRIGATION LIMIT (FT) = 1.00
 EXTERNAL INPUT UPPER LIMIT (FT)= 0.00
 EXTERNAL INPUT LOWER LIMIT (FT)= 0.00
 SUPPLY PUMP LOWER LIMIT (FT) = 0.00
 DRAWDOWN PUMP UPPER LIMIT (FT) = 0.00
 DRAWDOWN PUMP LOWER LIMIT (FT) = 0.00
 SPILLWAY CREST (FT) = 32.50
 INITIAL DEPTH (FT) = 0.00
 INFIL. INTO DRY SOIL (IN) = 0.00

ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Year	Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runc ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
2002	510.82	421.72	89.1	13.1	8.24	0	2.47	0	500.1	0	0	0	0	0	28.71	0	0	396.01	104.78
2003	513.21	512.78	0.43	14.89	11.06	0	2.05	0	500.1	0	0	0	0	0	30.81	0	0	481.97	17.82
2004	511.57	511	0.57	12.19	8.33	0	1.76	0	501.47	0	0	0	0	0	30.77	0	0	480.23	19.56
2005	518.63	518.94	-0.31	20.16	15.57	0	2.95	0	500.1	0	0	0	0	0	31.08	0	0	487.88	11.91
2006	511.85	512.38	-0.52	13.22	9.83	0	1.92	0	500.1	0	0	0	0	0	30.79	0	0	481.58	18.21
2007	512.74	511.96	0.78	14.34	10.38	0	2.25	0	500.1	0	0	0	0	0	30.78	0	0	481.2	18.59
2008	518.75	516.56	0.19	16.74	12.91	0	2.37	0	501.47	0	0	0	0	0	31.07	0	0	485.5	14.3
2009	512.18	511.58	0.6	13.46	9.96	0	2.12	0	500.1	0	0	0	0	0	30.82	0	0	480.78	19.03
2010	519.33	518.79	0.54	21.88	15.94	0	3.28	0	500.1	0	0	0	0	0	31.01	0	0	487.78	12.01
2011	514.37	514.89	-0.53	16.16	11.7	0	2.57	0	500.1	0	0	0	0	0	30.9	0	0	483.99	15.8
2012	518.37	517.79	-1.42	16.9	13.11	0	1.79	0	501.47	0	0	0	0	0	31.11	0	0	486.69	13.11
2013	510.18	510.4	-0.22	11.75	8.72	0	1.35	0	500.1	0	0	0	0	0	30.74	0	0	479.66	20.13
2014	521.25	517.6	3.65	23.59	16.85	0	4.3	0	500.1	0	0	0	0	0	31.01	0	0	486.59	13.2
2015	511.06	514.58	-3.52	12.37	9.47	0	1.48	0	500.1	0	0	0	0	0	30.98	0	0	483.6	16.19
2016	513.94	514.37	-0.43	13.79	10.41	0	2.06	0	501.47	0	0	0	0	0	30.91	0	0	483.46	16.33

AVERAGE ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runc ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
515.44	508.38	7.06	15.78	11.63	0	2.34	0	501.47	0	0	0	0	0	30.66	0	0	477.73	22.07



A SUMMARY OF ACCUMULATIVE ANNUAL POND VOLUMES 03-89

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Ponds\Burdock July 09\XB 03-89\XB 03-89.pnd
 File Creation Date : Jul 10, 2009 14:03:26
 File Last Modified Date : Jul 10, 2009 14:03:26
 Description : Burdock 302 AF Pond, 0.05 in/day from Mar-May and Oct; 0.11 in/day May11-Sep24; 314.5ac, bare soil; 03-89
 Simulation Start Date : Jan 01, 2003
 Simulation End Date : Dec 31, 2017
 Simulation Run Date : Jul 10, 2009 14:03
 SPAW Interface Version : Jul 10, 2009 14:03:26
 Pond Model Version : 8.02.71

WATERSHED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 03-89 0.00
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 03-89\XB 03-89.fpin Dec 30, 1899 00:00

IRRIGATED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 03-89 314.50
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 03-89\XB 03-89.fpin Dec 30, 1899 00:00

POND PROFILE

MAX AREA (AC) = 12.05
 MAX DEPTH (FT) = 32.50
 MAX VOLUME (AC-FT) = 295.99
 IRRIGATION LIMIT (FT) = 1.00
 EXTERNAL INPUT UPPER LIMIT (FT) = 0.00
 EXTERNAL INPUT LOWER LIMIT (FT) = 0.00
 SUPPLY PUMP LOWER LIMIT (FT) = 0.00
 DRAWDOWN PUMP UPPER LIMIT (FT) = 0.00
 DRAWDOWN PUMP LOWER LIMIT (FT) = 0.00
 SPILLWAY CREST (FT) = 32.50
 INITIAL DEPTH (FT) = 0.00
 INFIL INTO DRY SOIL (IN) = 0.00

ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Year	Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runoff ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
2003	512.58	423.06	89.53	14.89	8.58	0	2.91	0	500.1	0	0	0	0	0	26.78	0	0	396.29	103.51
2004	511.57	511	0.57	12.19	8.33	0	1.78	0	501.47	0	0	0	0	0	30.77	0	0	480.23	19.56
2005	518.83	518.94	-0.31	20.16	15.57	0	2.95	0	500.1	0	0	0	0	0	31.06	0	0	487.88	11.91
2006	511.85	512.38	-0.52	13.22	9.83	0	1.92	0	500.1	0	0	0	0	0	30.79	0	0	481.58	18.21
2007	512.74	511.98	0.78	14.34	10.38	0	2.25	0	500.1	0	0	0	0	0	30.78	0	0	481.2	18.59
2008	518.75	516.56	0.19	18.74	12.91	0	2.37	0	501.47	0	0	0	0	0	31.07	0	0	485.5	14.3
2009	512.18	511.58	0.6	13.46	9.96	0	2.12	0	500.1	0	0	0	0	0	30.82	0	0	480.76	19.03
2010	519.33	518.79	0.54	21.88	15.94	0	3.28	0	500.1	0	0	0	0	0	31.01	0	0	487.78	12.01
2011	514.37	514.89	-0.53	16.16	11.7	0	2.57	0	500.1	0	0	0	0	0	30.9	0	0	483.98	15.8
2012	516.37	517.79	-1.42	16.9	13.11	0	1.79	0	501.47	0	0	0	0	0	31.11	0	0	486.89	13.11
2013	510.18	510.4	-0.22	11.75	8.72	0	1.35	0	500.1	0	0	0	0	0	30.74	0	0	479.66	20.13
2014	521.25	517.6	3.85	23.59	16.85	0	4.3	0	500.1	0	0	0	0	0	31.01	0	0	496.59	13.2
2015	511.06	514.58	-3.52	12.37	9.47	0	1.48	0	500.1	0	0	0	0	0	30.98	0	0	483.6	16.19
2016	513.94	514.37	-0.43	13.79	10.41	0	2.06	0	501.47	0	0	0	0	0	30.91	0	0	483.46	16.33
2017	513.88	513.15	0.73	15.58	10.9	0	2.88	0	500.1	0	0	0	0	0	30.71	0	0	482.44	17.95

AVERAGE ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runoff ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
515.81	508.5	7.11	15.94	11.71	0	2.43	0	501.47	0	0	0	0	0	30.65	0	0	477.84	21.95



A SUMMARY OF ACCUMULATIVE ANNUAL POND VOLUMES 04-90

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Ponds\Burdock July 09\XB 04-90\XB 04-90.pnd
 File Creation Date : Jul 10, 2009 15:01:32
 File Last Modified Date : Jul 10, 2009 15:01:32
 Description : Burdock 302 AF Pond, 0.05 in/day from Mar-May and Oct; 0.11 in/day May11-Sep24; 314.5ac, bare soil; 04-90
 Simulation Start Date : Jan 01, 2004
 Simulation End Date : Dec 31, 2018
 Simulation Run Date : Jul 10, 2009 15:01
 SPAW Interface Version : Jul 10, 2009 15:01:31
 Pond Model Version : 8.02.71

WATERSHED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 04-90 0.00
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 04-90\XB 04-90.fpin Dec 30, 1899 00:00

IRRIGATED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 04-90 314.50
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 04-90\XB 04-90.fpin Dec 30, 1899 00:00

POND PROFILE

MAX AREA (AC) = 12.06
 MAX DEPTH (FT) = 32.50
 MAX VOLUME (AC-FT) = 296.99
 IRRIGATION LIMIT (FT) = 1.00
 EXTERNAL INPUT UPPER LIMIT (FT) = 0.00
 EXTERNAL INPUT LOWER LIMIT (FT) = 0.00
 SUPPLY PUMP LOWER LIMIT (FT) = 0.00
 DRAWDOWN PUMP UPPER LIMIT (FT) = 0.00
 DRAWDOWN PUMP LOWER LIMIT (FT) = 0.00
 SPILLWAY CREST (FT) = 32.50
 INITIAL DEPTH (FT) = 0.00
 INFIL INTO DRY SOIL (IN) = 0.00

ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Year	Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runo ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Dwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
2004	510.88	420.79	90.09	12.17	7.28	0	2.13	0	501.47	0	0	0	0	0	26.75	0	0	394.04	105.75
2005	518.63	518.94	-0.31	20.18	15.57	0	2.95	0	500.1	0	0	0	0	0	31.06	0	0	487.88	11.91
2006	511.85	512.38	-0.52	13.22	9.83	0	1.92	0	500.1	0	0	0	0	0	30.79	0	0	481.58	18.21
2007	512.74	511.98	0.78	14.34	10.38	0	2.25	0	500.1	0	0	0	0	0	30.76	0	0	481.2	18.59
2008	518.75	516.56	0.19	16.74	12.91	0	2.37	0	501.47	0	0	0	0	0	31.07	0	0	485.5	14.3
2009	512.18	511.58	0.6	13.48	9.98	0	2.12	0	500.1	0	0	0	0	0	30.82	0	0	480.76	19.03
2010	519.33	518.79	0.54	21.88	15.94	0	3.28	0	500.1	0	0	0	0	0	31.01	0	0	487.78	12.01
2011	514.37	514.89	-0.53	18.16	11.7	0	2.57	0	500.1	0	0	0	0	0	30.9	0	0	483.99	15.8
2012	518.37	517.79	-1.42	18.9	13.11	0	1.79	0	501.47	0	0	0	0	0	31.11	0	0	486.69	13.11
2013	510.18	510.4	-0.22	11.75	8.72	0	1.35	0	500.1	0	0	0	0	0	30.74	0	0	479.66	20.13
2014	521.25	517.8	3.65	23.59	16.85	0	4.3	0	500.1	0	0	0	0	0	31.01	0	0	486.59	13.2
2015	511.08	514.58	-3.52	12.37	9.47	0	1.48	0	500.1	0	0	0	0	0	30.98	0	0	483.6	18.19
2016	513.94	514.37	-0.43	13.78	10.41	0	2.06	0	501.47	0	0	0	0	0	30.91	0	0	483.46	16.33
2017	513.88	513.15	0.73	15.58	10.9	0	2.88	0	500.1	0	0	0	0	0	30.71	0	0	482.44	17.35
2018	517.5	517.01	0.49	19.14	14.18	0	3.22	0	500.1	0	0	0	0	0	30.91	0	0	486.09	13.7

AVERAGE ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runo ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Dwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
515.89	508.74	7.14	16.24	11.92	0	2.49	0	501.47	0	0	0	0	0	30.66	0	0	478.08	21.71



A SUMMARY OF ACCUMULATIVE ANNUAL POND VOLUMES 05-91

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPA\W Model\Projects\Ponds\Burdock July 09\XB 05-91\XB 05-91.pnd
 File Creation Date : Jul 10, 2009 15:11:27
 File Last Modified Date : Jul 10, 2009 15:11:27
 Description : Burdock 302 AF Pond, 0.05 in/day from Mar-May and Oct; 0.11 in/day May11-Sep24; 314.5ac, bare soil; 05-91
 Simulation Start Date : Jan 01, 2005
 Simulation End Date : Dec 31, 2019
 Simulation Run Date : Jul 10, 2009 15:11
 SPAW Interface Version : Jul 10, 2009 15:11:27
 Pond Model Version : 6.02.71

WATERSHED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 05-91 0.00
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPA\W Model\Projects\Fields\Burdock July 09\XB 05-91\XB 05-91.fpin Dec 30, 1899 00:00

IRRIGATED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 05-91 314.50
 G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPA\W Model\Projects\Fields\Burdock July 09\XB 05-91\XB 05-91.fpin Dec 30, 1899 00:00

POND PROFILE

MAX AREA (AC) = 12.05
 MAX DEPTH (FT) = 32.50
 MAX VOLUME (AC-FT) = 295.99
 IRRIGATION LIMIT (FT) = 1.00
 EXTERNAL INPUT UPPER LIMIT (FT) = 0.00
 EXTERNAL INPUT LOWER LIMIT (FT) = 0.00
 SUPPLY PUMP LOWER LIMIT (FT) = 0.00
 DRAWDOWN PUMP UPPER LIMIT (FT) = 0.00
 DRAWDOWN PUMP LOWER LIMIT (FT) = 0.00
 SPILLWAY CREST (FT) = 32.50
 INITIAL DEPTH (FT) = 0.00
 INFIL INTO DRY SOIL (IN) = 0.00

ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Year	Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runoff ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drawdown In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
2005	517.87	428.09	89.78	20.16	13.12	0	4.85	0	500.1	0	0	0	0	0	28.85	0	0	401.23	98.86
2006	511.85	512.38	-0.52	13.22	9.83	0	1.82	0	500.1	0	0	0	0	0	30.79	0	0	481.58	18.21
2007	512.74	511.96	0.78	14.34	10.38	0	2.25	0	500.1	0	0	0	0	0	30.76	0	0	481.2	18.59
2008	516.75	518.58	0.19	16.74	12.91	0	2.37	0	501.47	0	0	0	0	0	31.07	0	0	485.5	14.3
2009	512.18	511.58	0.6	13.46	9.96	0	2.12	0	500.1	0	0	0	0	0	30.82	0	0	480.78	19.03
2010	519.33	518.79	0.54	21.88	15.94	0	3.28	0	500.1	0	0	0	0	0	31.01	0	0	487.78	12.01
2011	514.37	514.89	-0.53	16.16	11.7	0	2.57	0	500.1	0	0	0	0	0	30.9	0	0	483.99	15.8
2012	516.37	517.79	-1.42	16.9	13.11	0	1.79	0	501.47	0	0	0	0	0	31.11	0	0	486.68	13.11
2013	510.18	510.4	-0.22	11.75	8.72	0	1.35	0	500.1	0	0	0	0	0	30.74	0	0	479.66	20.13
2014	521.25	517.6	3.65	23.59	16.85	0	4.3	0	500.1	0	0	0	0	0	31.01	0	0	486.59	13.2
2015	511.06	514.58	-3.52	12.37	9.47	0	1.48	0	500.1	0	0	0	0	0	30.98	0	0	483.6	16.19
2016	513.94	514.37	-0.43	13.79	10.41	0	2.06	0	501.47	0	0	0	0	0	30.91	0	0	483.46	16.33
2017	513.88	513.15	0.73	15.58	10.9	0	2.88	0	500.1	0	0	0	0	0	30.71	0	0	482.44	17.35
2018	517.5	517.01	0.49	19.14	14.18	0	3.22	0	500.1	0	0	0	0	0	30.91	0	0	486.08	13.7
2019	513.64	514.14	-0.5	15.03	11.7	0	1.84	0	500.1	0	0	0	0	0	30.91	0	0	483.23	16.56

AVERAGE ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runoff ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drawdown In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
515.96	508.91	7.05	16.27	11.95	0	2.54	0	501.47	0	0	0	0	0	30.86	0	0	478.25	21.54



A SUMMARY OF ACCUMULATIVE ANNUAL POND VOLUMES 06-92

SIMULATION FOR:

File : G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Ponds\Burdock July 09\XB 06-92\XB 06-92.pnd
File Creation Date : Jul 10, 2009 15:19:57
File Last Modified Date : Jul 10, 2009 15:19:57
Description : Burdock 302 AF Pond, 0.05 in/day from Mar-May and Oct; 0.11 in/day May11-Sep24; 314.5 ac, bare soil; 06-92
Simulation Start Date : Jan 01, 2006
Simulation End Date : Dec 31, 2020
Simulation Run Date : Jul 10, 2009 15:19
SPAW Interface Version : Jul 10, 2009 15:19:57
Pond Model Version : 6.02.71

WATERSHED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 06-92 0.00
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 06-92\XB 06-92.fpin Dec 30, 1899 00:00

IRRIGATED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
Burdock-0.05/day from Mar29-May10 and Sep25-Oct31; 0.11/day May11-Sep24; bare soil; 314.5 acres; 06-92 314.50
G:\102\00279.02\Data Info\DB Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 06-92\XB 06-92.fpin Dec 30, 1899 00:00

POND PROFILE

MAX AREA (AC) = 12.05
MAX DEPTH (FT) = 32.50
MAX VOLUME (AC-FT) = 295.99
IRRIGATION LIMIT (FT) = 1.00
EXTERNAL INPUT UPPER LIMIT (FT) = 0.00
EXTERNAL INPUT LOWER LIMIT (FT) = 0.00
SUPPLY PUMP LOWER LIMIT (FT) = 0.00
DRAWDOWN PUMP UPPER LIMIT (FT) = 0.00
DRAWDOWN PUMP LOWER LIMIT (FT) = 0.00
SPILLWAY CREST (FT) = 32.50
INITIAL DEPTH (FT) = 0.00
INFIL INTO DRY SOIL (IN) = 0.00

ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Year	Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runoff ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
2006	511.19	421.93	89.26	13.13	8.32	0	2.77	0	500.1	0	0	0	0	0	26.72	0	0	395.21	104.58
2007	512.74	511.96	0.78	14.34	10.38	0	2.25	0	500.1	0	0	0	0	0	30.76	0	0	481.2	18.59
2008	516.75	516.56	0.19	16.74	12.91	0	2.37	0	501.47	0	0	0	0	0	31.07	0	0	485.5	14.3
2009	512.18	511.58	0.6	13.46	9.96	0	2.12	0	500.1	0	0	0	0	0	30.82	0	0	480.76	19.03
2010	519.33	518.79	0.54	21.88	15.84	0	3.28	0	500.1	0	0	0	0	0	31.01	0	0	487.78	12.01
2011	514.37	514.89	-0.53	16.18	11.7	0	2.57	0	500.1	0	0	0	0	0	30.9	0	0	483.99	15.8
2012	516.37	517.79	-1.42	16.9	13.11	0	1.79	0	501.47	0	0	0	0	0	31.11	0	0	486.69	13.11
2013	510.18	510.4	-0.22	11.75	8.72	0	1.35	0	500.1	0	0	0	0	0	30.74	0	0	479.66	20.13
2014	521.25	517.6	3.65	23.59	16.85	0	4.3	0	500.1	0	0	0	0	0	31.01	0	0	488.59	13.2
2015	511.06	514.58	-3.52	12.37	9.47	0	1.48	0	500.1	0	0	0	0	0	30.98	0	0	483.6	16.19
2016	513.94	514.37	-0.43	13.79	10.41	0	2.06	0	501.47	0	0	0	0	0	30.91	0	0	483.46	16.33
2017	513.88	513.15	0.73	15.58	10.8	0	2.88	0	500.1	0	0	0	0	0	30.71	0	0	482.44	17.35
2018	517.5	517.01	0.49	19.14	14.18	0	3.22	0	500.1	0	0	0	0	0	30.91	0	0	486.09	13.7
2019	513.84	514.14	-0.5	15.03	11.7	0	1.84	0	500.1	0	0	0	0	0	30.91	0	0	483.23	16.56
2020	513.63	514.19	-0.56	14.07	10.59	0	1.57	0	501.47	0	0	0	0	0	30.91	0	0	483.28	16.51

AVERAGE ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runoff ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
515.54	508.62	6.92	15.86	11.68	0	2.39	0	501.47	0	0	0	0	0	30.66	0	0	477.97	21.83



A SUMMARY OF ACCUMULATIVE ANNUAL POND VOLUMES 07-93

SIMULATION FOR:

File : G:\102\00279.02\Data Info\08 Land Application-Irrigation\SPAW Model\Projects\Ponds\Burdock July 09\XB 07-93\XB 07-93.pnd
 File Creation Date : Jul 10, 2009 15:29:03
 File Last Modified Date : Jul 10, 2009 15:29:03
 Description : Burdock 302 AF Pond, 0.05 in/day from Mar-May and Oct; 0.11 in/day May11-Sep24; 314.5 ac, bare soil; 07-93
 Simulation Start Date : Jan 01, 2007
 Simulation End Date : Dec 31, 2021
 Simulation Run Date : Jul 10, 2009 15:29
 SPAW Interface Version : Jul 10, 2009 15:29:02
 Pond Model Version : 8.02.71

WATERSHED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 07-93 0.00
 G:\102\00279.02\Data Info\08 Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 07-93\XB 07-93.fpin Dec 30, 1899 00:00

IRRIGATED FIELDS:

DESCRIPTION/FILE (DATE) AREA (AC)
 Burdock-0.05/day from Mar29-May10 and Sep25-Oct31;0.11/day May11-Sep24; bare soil; 314.5 acres; 07-93 314.50
 G:\102\00279.02\Data Info\08 Land Application-Irrigation\SPAW Model\Projects\Fields\Burdock July 09\XB 07-93\XB 07-93.fpin Dec 30, 1899 00:00

POND PROFILE

MAX AREA (AC) = 12.05
 MAX DEPTH (FT) = 32.50
 MAX VOLUME (AC-FT) = 296.89
 IRRIGATION LIMIT (FT) = 1.00
 EXTERNAL INPUT UPPER LIMIT (FT)= 0.00
 EXTERNAL INPUT LOWER LIMIT (FT)= 0.00
 SUPPLY PUMP LOWER LIMIT (FT) = 0.00
 DRAWDOWN PUMP UPPER LIMIT (FT) = 0.00
 DRAWDOWN PUMP LOWER LIMIT (FT) = 0.00
 SPILLWAY CREST (FT) = 32.50
 INITIAL DEPTH (FT) = 0.00
 INFIL. INTO DRY SOIL (IN) = 0.00

ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Year	Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runo ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
2007	512.18	422.14	90.04	14.34	8.92	0	3.16	0	500.1	0	0	0	0	0	28.72	0	0	395.41	104.38
2008	516.75	516.56	0.19	16.74	12.91	0	2.37	0	501.47	0	0	0	0	0	31.07	0	0	485.5	14.3
2009	512.18	511.58	0.6	13.46	9.96	0	2.12	0	500.1	0	0	0	0	0	30.82	0	0	480.78	19.03
2010	519.33	518.79	0.54	21.88	15.94	0	3.28	0	500.1	0	0	0	0	0	31.01	0	0	487.78	12.01
2011	514.37	514.89	-0.53	16.16	11.7	0	2.57	0	500.1	0	0	0	0	0	30.9	0	0	483.99	15.8
2012	516.37	517.79	-1.42	16.9	13.11	0	1.79	0	501.47	0	0	0	0	0	31.11	0	0	486.69	13.11
2013	510.18	510.4	-0.22	11.75	8.72	0	1.35	0	500.1	0	0	0	0	0	30.74	0	0	479.66	20.13
2014	521.25	517.6	3.65	23.59	16.85	0	4.3	0	500.1	0	0	0	0	0	31.01	0	0	486.59	13.2
2015	511.06	514.58	-3.52	12.37	9.47	0	1.48	0	500.1	0	0	0	0	0	30.96	0	0	483.6	16.19
2016	513.94	514.37	-0.43	13.79	10.41	0	2.06	0	501.47	0	0	0	0	0	30.91	0	0	483.46	16.33
2017	513.88	513.15	0.73	15.58	10.9	0	2.88	0	500.1	0	0	0	0	0	30.71	0	0	482.44	17.35
2018	517.5	517.01	0.49	19.14	14.18	0	3.22	0	500.1	0	0	0	0	0	30.91	0	0	486.09	13.7
2019	513.84	514.14	-0.5	15.03	11.7	0	1.84	0	500.1	0	0	0	0	0	30.91	0	0	483.23	16.56
2020	513.63	514.19	-0.56	14.07	10.59	0	1.57	0	501.47	0	0	0	0	0	30.91	0	0	483.28	16.51
2021	520.21	518.53	1.68	22.3	17.02	0	3.09	0	500.1	0	0	0	0	0	31.03	0	0	487.5	12.29

AVERAGE ANNUAL VOLUMES BY MAJOR IMPOUNDMENT PROCESSES

Inflow ac-ft	Outflow ac-ft	Change ac-ft	Precip in	Precip Vol ac-ft	WS Runoff ac-ft	Bank Runo ac-ft	Interflow ac-ft	Ext Input ac-ft	Seep In ac-ft	Supply In ac-ft	Drwdwn In ac-ft	Pipe In ac-ft	Spill In ac-ft	Vol Evap ac-ft	Vol Infil ac-ft	Vol Seep ac-ft	Irrig ac-ft	Irrig Def ac-ft
516.1	509.07	7.03	16.47	12.16	0	2.47	0	501.47	0	0	0	0	0	30.87	0	0	478.4	21.39

Monthly Runoff Water Balance

Dewey Area

1984-1998 Estimated Monthly Water Balance for Evap Pond--Dewey Site (XD Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip. (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Dewey Perm. (cm/sec)
Jan	1984	35.00	0.00	0	0.00	0.13	0.92	0.00	-0.79	0.00E+00
Feb	1984	35.00	0.00	0	0.00	0.28	1.23	0.00	-0.95	0.00E+00
Mar	1984	35.00	0.28	0.01	0.09	0.8	1.88	0.00	-1.09	0.00E+00
Apr	1984	35.00	28.04	1.07	8.81	3.59	3.3	52.41	-42.51	5.14E-05
May	1984	35.00	24.90	0.95	8.54	2.93	4.4	54.16	-47.09	5.14E-05
Jun	1984	35.00	5.24	0.2	1.80	1.91	5.76	52.41	-54.48	5.14E-05
Jul	1984	35.00	9.70	0.37	3.32	2.38	7.08	54.16	-55.83	5.14E-05
Aug	1984	35.00	9.44	0.36	3.23	1.68	6.85	54.16	-58.19	5.14E-05
Sep	1984	35.00	0.00	0	0.00	0.4	5.5	52.41	-57.51	5.14E-05
Oct	1984	35.00	0.52	0.02	0.18	0.63	3.74	54.16	-57.09	5.14E-05
Nov	1984	35.00	4.48	0.17	1.53	0.67	2.03	52.41	-52.34	5.14E-05
Dec	1984	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1985	35.00	0.00	0	0.00	0.17	0.92	0.00	-0.75	0.00E+00
Feb	1985	35.00	0.00	0	0.00	0.57	1.23	0.00	-0.88	0.00E+00
Mar	1985	35.00	0.00	0	0.00	0.77	1.98	0.00	-1.21	0.00E+00
Apr	1985	35.00	47.44	1.81	16.26	3.15	3.3	52.41	-38.30	5.14E-05
May	1985	35.00	2.62	0.1	0.90	1.05	4.4	54.16	-58.81	5.14E-05
Jun	1985	35.00	1.87	0.08	0.54	1.03	5.76	52.41	-58.60	5.14E-05
Jul	1985	35.00	2.38	0.09	0.81	1.2	7.08	54.16	-59.23	5.14E-05
Aug	1985	35.00	0.00	0	0.00	0.5	6.85	54.16	-60.81	5.14E-05
Sep	1985	35.00	12.32	0.47	4.22	1.99	5.5	52.41	-61.70	5.14E-05
Oct	1985	35.00	1.05	0.04	0.36	0.68	3.74	54.16	-58.86	5.14E-05
Nov	1985	35.00	0.00	0	0.00	0.22	2.03	52.41	-54.22	5.14E-05
Dec	1985	35.00	0.00	0	0.00	0.41	1.1	0.00	-0.88	0.00E+00
Jan	1986	35.00	0.00	0	0.00	1.63	0.92	0.00	0.71	0.00E+00
Feb	1986	35.00	0.00	0	0.71	1.06	1.28	0.00	0.49	0.00E+00
Mar	1986	35.00	0.00	0	0.49	0.52	1.98	0.00	-0.97	0.00E+00
Apr	1986	35.00	32.24	1.23	11.05	3.27	3.3	52.41	-41.39	5.14E-05
May	1986	35.00	8.39	0.32	2.68	1.07	4.4	54.16	-54.81	5.14E-05
Jun	1986	35.00	78.00	2.9	28.08	4.87	5.76	52.41	-27.24	5.14E-05
Jul	1986	35.00	8.81	0.26	2.34	1.83	7.08	54.16	-57.27	5.14E-05
Aug	1986	35.00	8.81	0.26	2.34	1.19	6.85	54.16	-57.58	5.14E-05
Sep	1986	35.00	38.17	1.38	12.40	3.52	5.5	52.41	-41.99	5.14E-05
Oct	1986	35.00	55.30	2.11	18.96	3.88	3.74	54.16	-35.08	5.14E-05
Nov	1986	35.00	2.10	0.08	0.72	0.88	2.03	52.41	-62.88	5.14E-05
Dec	1986	35.00	0.00	0	0.00	0.09	1.1	0.00	-1.01	0.00E+00
Jan	1987	35.00	0.00	0	0.00	0.13	0.92	0.00	-0.79	0.00E+00
Feb	1987	35.00	0.00	0	0.00	0.87	1.23	0.00	-0.36	0.00E+00
Mar	1987	35.00	3.16	0.12	1.08	2.22	1.98	0.00	1.32	0.00E+00
Apr	1987	35.00	4.98	0.19	3.03	0.69	3.3	52.41	-52.00	5.14E-05
May	1987	35.00	28.73	1.02	8.17	2.97	4.4	52.41	-44.88	5.14E-05
Jun	1987	35.00	0.79	0.03	0.27	0.59	5.76	52.41	-57.31	5.14E-05
Jul	1987	35.00	15.73	0.8	5.39	1.71	7.08	52.41	-52.39	5.14E-05
Aug	1987	35.00	2.38	0.09	0.81	1.04	6.85	52.41	-57.51	5.14E-05
Sep	1987	35.00	2.62	0.1	0.90	0.76	5.5	52.41	-59.25	5.14E-05
Oct	1987	35.00	0.28	0.01	0.09	0.42	3.74	52.41	-55.84	5.14E-05
Nov	1987	35.00	5.50	0.21	1.89	0.71	2.03	52.41	-61.84	5.14E-05
Dec	1987	35.00	0.28	0.01	0.09	0.25	1.1	0.00	-0.78	0.00E+00
Jan	1988	35.00	0.00	0	0.00	0.63	0.92	0.00	-0.29	0.00E+00
Feb	1988	35.00	0.00	0	0.00	0.21	1.23	0.00	-1.02	0.00E+00
Mar	1988	35.00	0.00	0	0.00	1.17	1.98	0.00	-0.81	0.00E+00
Apr	1988	35.00	1.67	0.08	0.54	0.83	3.3	52.41	-54.54	5.14E-05
May	1988	35.00	20.18	0.77	6.92	2.84	4.4	52.41	-47.26	5.14E-05
Jun	1988	35.00	41.93	1.6	14.38	2.78	5.76	52.41	-41.01	5.14E-05
Jul	1988	35.00	28.57	1.09	9.78	2.18	7.08	52.41	-47.52	5.14E-05
Aug	1988	35.00	27.78	1.08	9.52	1.87	6.85	52.41	-47.97	5.14E-05
Sep	1988	35.00	1.06	0.04	0.36	0.84	5.5	52.41	-58.71	5.14E-05
Oct	1988	35.00	0.00	0	0.00	0.09	3.74	52.41	-58.08	5.14E-05
Nov	1988	35.00	0.28	0.01	0.09	0.52	2.03	52.41	-63.83	5.14E-05
Dec	1988	35.00	0.00	0	0.00	0.23	1.1	0.00	-0.87	0.00E+00
Jan	1989	35.00	0.00	0	0.00	0.09	0.92	0.00	-0.83	0.00E+00
Feb	1989	35.00	0.00	0	0.00	0.8	1.23	0.00	-0.83	0.00E+00
Mar	1989	35.00	0.52	0.02	0.18	1.14	1.98	0.00	-0.88	0.00E+00
Apr	1989	35.00	10.75	0.41	3.88	1.67	3.3	52.41	-50.39	5.14E-05
May	1989	35.00	3.16	0.12	1.08	1.41	4.4	52.41	-54.32	5.14E-05
Jun	1989	35.00	2.10	0.08	0.72	1.2	5.76	52.41	-58.25	5.14E-05
Jul	1989	35.00	28.47	1.01	8.08	2.21	7.08	52.41	-48.21	5.14E-05
Aug	1989	35.00	14.41	0.55	4.94	1.46	6.85	52.41	-52.96	5.14E-05
Sep	1989	35.00	84.47	2.48	22.10	3.94	5.5	52.41	-31.87	5.14E-05
Oct	1989	35.00	2.88	0.11	0.89	1.07	3.74	52.41	-54.09	5.14E-05
Nov	1989	35.00	0.00	0	0.00	0.23	2.03	52.41	-54.21	5.14E-05
Dec	1989	35.00	0.00	0	0.00	0.58	1.1	0.00	-0.64	0.00E+00
Jan	1990	35.00	0.00	0	0.00	0.08	0.92	0.00	-0.84	0.00E+00
Feb	1990	35.00	0.00	0	0.00	0.4	1.28	0.00	-0.88	0.00E+00

1984-1998 Estimated Monthly Water Balance for Evap Pond--Dewey Site (XD Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip. (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Dewey Perm. (cm/sec)
Mar	1990	35.00	0.79	0.03	0.27	1.17	1.98	0.00	-0.64	0.00E+00
Apr	1990	35.00	11.01	0.42	3.77	2.31	3.3	52.41	-49.63	5.14E-05
May	1990	35.00	56.09	2.14	19.23	4.45	4.4	52.41	-33.13	5.14E-05
Jun	1990	35.00	6.65	0.33	2.97	1.22	5.76	52.41	-63.99	5.14E-05
Jul	1990	35.00	64.51	2.06	18.69	3.84	7.08	52.41	-36.98	5.14E-05
Aug	1990	35.00	5.24	0.2	1.80	0.86	6.95	52.41	-66.70	5.14E-05
Sep	1990	35.00	35.12	1.34	12.04	2.48	5.5	52.41	-43.39	5.14E-05
Oct	1990	35.00	1.83	0.07	0.63	0.89	3.74	52.41	-54.83	5.14E-05
Nov	1990	35.00	6.81	0.28	2.34	1.12	2.03	52.41	-60.99	5.14E-05
Dec	1990	35.00	0.79	0.03	0.27	0.32	1.1	0.00	-0.51	0.00E+00
Jan	1991	35.00	0.00	0	0.00	0.15	0.92	0.00	-0.77	0.00E+00
Feb	1991	35.00	0.00	0	0.00	0.9	1.23	0.00	-0.33	0.00E+00
Mar	1991	35.00	0.00	0	0.00	0.35	1.88	0.00	-1.83	0.00E+00
Apr	1991	35.00	4.46	0.17	1.53	1.58	3.3	52.41	-52.60	5.14E-05
May	1991	35.00	66.35	2.15	19.32	4.91	4.4	52.41	-32.58	5.14E-05
Jun	1991	35.00	39.05	1.49	13.39	3.16	5.76	52.41	-41.62	5.14E-05
Jul	1991	35.00	0.26	0.01	0.09	0.38	7.08	52.41	-59.04	5.14E-05
Aug	1991	35.00	13.89	0.53	4.78	1.62	6.95	52.41	-53.08	5.14E-05
Sep	1991	35.00	0.00	0	0.00	0.29	5.5	52.41	-57.82	5.14E-05
Oct	1991	35.00	4.72	0.18	1.62	0.96	3.74	52.41	-63.68	5.14E-05
Nov	1991	35.00	0.26	0.01	0.09	0.61	2.03	52.41	-63.84	5.14E-05
Dec	1991	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1992	35.00	0.00	0	0.00	0.32	0.92	0.00	-0.60	0.00E+00
Feb	1992	35.00	1.83	0.07	0.63	0.61	1.23	0.00	-0.09	0.00E+00
Mar	1992	35.00	5.77	0.22	1.98	1.07	1.98	0.00	1.07	0.00E+00
Apr	1992	35.00	0.79	0.03	1.34	0.66	3.3	52.41	-53.72	5.14E-05
May	1992	35.00	30.66	1.17	10.51	2.76	4.4	52.41	-43.54	5.14E-05
Jun	1992	35.00	13.37	0.51	4.58	1.88	5.76	52.41	-51.71	5.14E-05
Jul	1992	35.00	45.08	1.72	15.48	3.92	7.08	52.41	-40.12	5.14E-05
Aug	1992	35.00	14.68	0.56	5.03	1.74	6.95	52.41	-52.69	5.14E-05
Sep	1992	35.00	0.00	0	0.00	0.08	5.5	52.41	-57.83	5.14E-05
Oct	1992	35.00	1.57	0.06	0.54	0.61	3.74	52.41	-55.00	5.14E-05
Nov	1992	35.00	0.00	0	0.00	0.2	2.03	52.41	-64.24	5.14E-05
Dec	1992	35.00	0.00	0	0.00	0.33	1.1	0.00	-0.77	0.00E+00
Jan	1993	35.00	0.00	0	0.00	0.26	0.92	0.00	-0.66	0.00E+00
Feb	1993	35.00	0.00	0	0.00	0.13	1.23	0.00	-1.10	0.00E+00
Mar	1993	35.00	5.77	0.22	1.98	3.59	1.98	0.00	3.58	0.00E+00
Apr	1993	35.00	13.89	0.53	8.34	1.71	3.3	52.41	-46.66	5.14E-05
May	1993	35.00	16.77	0.64	5.75	1.98	4.4	52.41	-49.08	5.14E-05
Jun	1993	35.00	101.69	3.88	34.86	6.14	5.76	52.41	-17.17	5.14E-05
Jul	1993	35.00	28.57	1.09	9.79	2.67	7.08	52.41	-47.03	5.14E-05
Aug	1993	35.00	20.18	0.77	6.92	1.82	6.95	52.41	-50.62	5.14E-05
Sep	1993	35.00	2.10	0.08	0.72	1	5.5	52.41	-66.19	5.14E-05
Oct	1993	35.00	12.68	0.48	4.31	1.48	3.74	52.41	-60.36	5.14E-05
Nov	1993	35.00	0.00	0	0.00	0.72	2.03	52.41	-53.72	5.14E-05
Dec	1993	35.00	0.00	0	0.00	0.82	1.1	0.00	-0.28	0.00E+00
Jan	1994	35.00	0.00	0	0.00	0.6	0.92	0.00	-0.32	0.00E+00
Feb	1994	35.00	0.00	0	0.00	0.38	1.28	0.00	-0.92	0.00E+00
Mar	1994	35.00	0.00	0	0.00	0.73	1.98	0.00	-1.26	0.00E+00
Apr	1994	35.00	9.98	0.38	3.41	1.62	3.3	52.41	-50.68	5.14E-05
May	1994	35.00	11.53	0.44	3.95	1.47	4.4	52.41	-51.39	5.14E-05
Jun	1994	35.00	6.29	0.24	2.16	1.22	5.76	52.41	-54.79	5.14E-05
Jul	1994	35.00	16.25	0.62	5.57	2.04	7.08	52.41	-51.88	5.14E-05
Aug	1994	35.00	1.05	0.04	0.36	0.45	6.95	52.41	-68.55	5.14E-05
Sep	1994	35.00	0.00	0	0.00	0.32	5.5	52.41	-67.69	5.14E-05
Oct	1994	35.00	12.84	0.49	4.40	2.19	3.74	52.41	-49.56	5.14E-05
Nov	1994	35.00	0.00	0	0.00	0.3	2.03	52.41	-54.14	5.14E-05
Dec	1994	35.00	0.00	0	0.00	0.71	1.1	0.00	-0.39	0.00E+00
Jan	1995	35.00	0.00	0	0.00	0.62	0.92	0.00	-0.40	0.00E+00
Feb	1995	35.00	0.00	0	0.00	0.7	1.23	0.00	-0.53	0.00E+00
Mar	1995	35.00	0.00	0	0.00	0.83	1.98	0.00	-1.35	0.00E+00
Apr	1995	35.00	1.31	0.05	0.45	1.36	3.3	52.41	-53.90	5.14E-05
May	1995	35.00	38.63	1.47	13.21	4.42	4.4	52.41	-39.18	5.14E-05
Jun	1995	35.00	39.57	1.51	13.57	3.09	5.76	52.41	-41.51	5.14E-05
Jul	1995	35.00	1.31	0.05	0.45	1.07	7.08	52.41	-57.97	5.14E-05
Aug	1995	35.00	1.57	0.06	0.54	0.55	6.95	52.41	-58.27	5.14E-05
Sep	1995	35.00	53.73	2.05	18.42	3.61	5.5	52.41	-35.88	5.14E-05
Oct	1995	35.00	5.50	0.21	1.89	1.43	3.74	52.41	-52.83	5.14E-05
Nov	1995	35.00	2.36	0.09	0.81	0.81	2.03	52.41	-52.82	5.14E-05
Dec	1995	35.00	0.00	0	0.00	0.13	1.1	0.00	-0.97	0.00E+00
Jan	1996	35.00	0.00	0	0.00	0.36	0.92	0.00	-0.57	0.00E+00
Feb	1996	35.00	0.00	0	0.00	0.24	1.23	0.00	-0.99	0.00E+00
Mar	1996	35.00	0.00	0	0.00	0.92	1.98	0.00	-1.08	0.00E+00
Apr	1996	35.00	28.83	1.1	9.88	3	3.3	52.41	-42.83	5.14E-05

1984-1998 Estimated Monthly Water Balance for Evap Pond--Dewey Site (XD Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip. (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Dewey Perm. (cm/sec)
May	1986	35.00	35.38	1.35	12.13	3.89	4.4	52.41	-40.99	5.14E-05
Jun	1986	35.00	17.58	0.87	6.02	1.85	5.78	52.41	-50.30	5.14E-05
Jul	1986	35.00	0.62	0.02	0.18	0.56	7.08	52.41	-58.78	5.14E-05
Aug	1986	35.00	32.78	1.25	11.23	2.72	6.95	52.41	-45.41	5.14E-05
Sep	1986	35.00	8.65	0.25	2.25	1.37	5.5	52.41	-54.30	5.14E-05
Oct	1986	35.00	7.34	0.28	2.52	1.79	3.74	52.41	-51.85	5.14E-05
Nov	1986	35.00	0.00	0	0.00	0.5	2.03	52.41	-53.94	5.14E-05
Dec	1986	35.00	0.00	0	0.00	0.62	1.1	0.00	-0.48	0.00E+00
Jan	1987	35.00	0.00	0	0.00	0.82	0.92	0.00	-0.30	0.00E+00
Feb	1987	35.00	0.00	0	0.00	0.48	1.23	0.00	-0.75	0.00E+00
Mar	1987	35.00	0.00	0	0.00	0.32	1.98	0.00	-1.68	0.00E+00
Apr	1987	35.00	15.73	0.6	5.39	2.52	3.3	52.41	-47.80	5.14E-05
May	1987	35.00	27.28	1.04	9.35	2.84	4.4	52.41	-44.63	5.14E-05
Jun	1987	35.00	34.07	1.3	11.68	3.17	5.78	52.41	-43.32	5.14E-05
Jul	1987	35.00	67.82	2.58	23.18	4.61	7.08	52.41	-31.70	5.14E-05
Aug	1987	35.00	5.60	0.21	1.89	1.05	6.95	52.41	-56.42	5.14E-05
Sep	1987	35.00	2.36	0.09	0.81	0.73	5.6	52.41	-58.37	5.14E-05
Oct	1987	35.00	1.05	0.04	0.36	0.7	3.74	52.41	-55.09	5.14E-05
Nov	1987	35.00	2.10	0.08	0.72	0.43	2.03	52.41	-53.29	5.14E-05
Dec	1987	35.00	0.00	0	0.00	0.28	1.1	0.00	-0.84	0.00E+00
Jan	1988	35.00	0.00	0	0.00	0.52	0.92	0.00	-0.40	0.00E+00
Feb	1988	35.00	2.88	0.11	0.99	0.78	1.26	0.00	0.49	0.00E+00
Mar	1988	35.00	19.39	0.74	7.14	2.02	1.98	0.00	59.77	0.00E+00
Apr	1988	35.00	0.00	0	7.18	0.27	3.3	52.41	-48.28	5.14E-05
May	1988	35.00	31.19	1.19	10.59	3.58	4.4	52.41	-42.64	5.14E-05
Jun	1988	35.00	51.63	1.97	17.70	3.38	5.78	52.41	-37.11	5.14E-05
Jul	1988	35.00	45.34	1.73	15.55	3.38	7.08	52.41	-40.57	5.14E-05
Aug	1988	35.00	29.35	1.12	10.08	2.38	6.95	52.41	-46.94	5.14E-05
Sep	1988	35.00	33.55	1.28	11.50	2.08	5.6	52.41	-44.33	5.14E-05
Oct	1988	35.00	44.55	1.7	15.28	4.16	3.74	52.41	-36.72	5.14E-05
Nov	1988	35.00	8.65	0.33	2.97	1.42	2.03	52.41	-50.06	5.14E-05
Dec	1988	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
				5.22		16.88	44.00		7.18	

Assumes seepage is 0.00 for January, February, March and December due to frozen soils
 Trial is for bare soil, 314.5 acres irrigated area

Permeability value is geometric mean of three available permeability values from Burdock test pits, see
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1985-1999 Estimated Monthly Water Balance for Evap Pond—Dewey Site (XD Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip. (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Dewey Perm. (cm/sec)
Jan	1985	35.00	0.00	0	0.00	0.17	0.92	0.00	-0.75	0.00E+00
Feb	1985	35.00	0.00	0	0.00	0.57	1.23	0.00	-0.66	0.00E+00
Mar	1985	35.00	0.00	0	0.00	0.77	1.98	0.00	-1.21	0.00E+00
Apr	1985	35.00	47.44	1.81	18.28	3.15	3.3	62.41	-38.30	5.14E-05
May	1985	35.00	2.82	0.1	0.90	1.05	4.4	64.16	-58.81	5.14E-05
Jun	1985	35.00	1.57	0.06	0.54	1.03	5.78	62.41	-56.80	5.14E-05
Jul	1985	35.00	2.38	0.08	0.81	1.2	7.08	64.16	-59.23	5.14E-05
Aug	1985	35.00	0.00	0	0.00	0.5	8.95	64.16	-60.61	5.14E-05
Sep	1985	35.00	12.32	0.47	4.22	1.69	5.5	62.41	-61.70	5.14E-05
Oct	1985	35.00	1.05	0.04	0.36	0.68	3.74	64.16	-58.88	5.14E-05
Nov	1985	35.00	0.00	0	0.00	0.22	2.03	62.41	-54.22	5.14E-05
Dec	1985	35.00	0.00	0	0.00	0.41	1.1	0.00	-0.89	0.00E+00
Jan	1986	35.00	0.00	0	0.00	1.63	0.92	0.00	0.71	0.00E+00
Feb	1986	35.00	0.00	0	0.71	1.06	1.23	0.00	0.54	0.00E+00
Mar	1986	35.00	0.00	0	0.54	0.52	1.98	0.00	-0.92	0.00E+00
Apr	1986	35.00	32.24	1.23	11.05	3.27	3.3	62.41	-41.39	5.14E-05
May	1986	35.00	8.39	0.32	2.88	1.07	4.4	64.16	-54.61	5.14E-05
Jun	1986	35.00	76.74	2.89	25.97	4.87	5.78	62.41	-27.33	5.14E-05
Jul	1986	35.00	6.29	0.24	2.16	1.83	7.08	64.16	-67.45	5.14E-05
Aug	1986	35.00	6.81	0.28	2.34	1.19	8.95	64.16	-67.58	5.14E-05
Sep	1986	35.00	36.17	1.38	12.40	3.52	5.5	62.41	-41.99	5.14E-05
Oct	1986	35.00	55.30	2.11	18.98	3.88	3.74	64.16	-35.06	5.14E-05
Nov	1986	35.00	2.10	0.08	0.72	0.88	2.03	62.41	-52.86	5.14E-05
Dec	1986	35.00	0.00	0	0.00	0.09	1.1	0.00	-1.01	0.00E+00
Jan	1987	35.00	0.00	0	0.00	0.13	0.92	0.00	-0.79	0.00E+00
Feb	1987	35.00	0.00	0	0.00	0.87	1.28	0.00	-0.41	0.00E+00
Mar	1987	35.00	3.15	0.12	1.08	2.22	1.98	0.00	1.32	0.00E+00
Apr	1987	35.00	4.98	0.19	3.03	0.69	3.3	62.41	-62.00	5.14E-05
May	1987	35.00	22.02	0.84	7.55	2.97	4.4	64.16	-48.04	5.14E-05
Jun	1987	35.00	0.79	0.03	0.27	0.59	5.78	62.41	-57.31	5.14E-05
Jul	1987	35.00	15.73	0.6	5.38	1.71	7.08	64.16	-54.14	5.14E-05
Aug	1987	35.00	2.38	0.09	0.81	1.04	8.95	64.16	-69.28	5.14E-05
Sep	1987	35.00	2.82	0.1	0.80	0.78	5.5	62.41	-56.25	5.14E-05
Oct	1987	35.00	0.28	0.01	0.09	0.42	3.74	64.16	-57.39	5.14E-05
Nov	1987	35.00	5.50	0.21	1.89	0.71	2.03	62.41	-51.84	5.14E-05
Dec	1987	35.00	0.28	0.01	0.09	0.25	1.1	0.00	-0.78	0.00E+00
Jan	1988	35.00	0.00	0	0.00	0.63	0.92	0.00	-0.29	0.00E+00
Feb	1988	35.00	0.00	0	0.00	0.21	1.23	0.00	-1.02	0.00E+00
Mar	1988	35.00	0.00	0	0.00	1.17	1.98	0.00	-0.81	0.00E+00
Apr	1988	35.00	1.57	0.08	0.64	0.63	3.3	62.41	-54.54	5.14E-05
May	1988	35.00	20.18	0.77	8.92	2.84	4.4	62.41	-47.25	5.14E-05
Jun	1988	35.00	41.93	1.8	14.38	2.78	5.78	62.41	-41.01	5.14E-05
Jul	1988	35.00	28.57	1.08	9.79	2.18	7.08	62.41	-47.52	5.14E-05
Aug	1988	35.00	27.78	1.08	9.52	1.87	8.95	62.41	-47.87	5.14E-05
Sep	1988	35.00	1.05	0.04	0.36	0.84	5.5	62.41	-58.71	5.14E-05
Oct	1988	35.00	0.00	0	0.00	0.09	3.74	62.41	-58.06	5.14E-05
Nov	1988	35.00	0.28	0.01	0.09	0.52	2.03	62.41	-53.83	5.14E-05
Dec	1988	35.00	0.00	0	0.00	0.23	1.1	0.00	-0.87	0.00E+00
Jan	1989	35.00	0.00	0	0.00	0.09	0.92	0.00	-0.83	0.00E+00
Feb	1989	35.00	0.00	0	0.00	0.8	1.23	0.00	-0.63	0.00E+00
Mar	1989	35.00	0.52	0.02	0.18	1.14	1.98	0.00	-0.88	0.00E+00
Apr	1989	35.00	10.75	0.41	3.88	1.67	3.3	62.41	-50.36	5.14E-05
May	1989	35.00	3.15	0.12	1.08	1.41	4.4	62.41	-54.32	5.14E-05
Jun	1989	35.00	2.10	0.08	0.72	1.2	5.78	62.41	-58.25	5.14E-05
Jul	1989	35.00	26.47	1.01	9.08	2.21	7.08	62.41	-48.21	5.14E-05
Aug	1989	35.00	14.41	0.55	4.94	1.48	8.95	62.41	-52.98	5.14E-05
Sep	1989	35.00	84.47	2.48	22.10	3.94	5.5	62.41	-31.87	5.14E-05
Oct	1989	35.00	2.88	0.11	0.99	1.07	3.74	62.41	-54.09	5.14E-05
Nov	1989	35.00	0.00	0	0.00	0.23	2.03	62.41	-54.21	5.14E-05
Dec	1989	35.00	0.00	0	0.00	0.56	1.1	0.00	-0.54	0.00E+00
Jan	1990	35.00	0.00	0	0.00	0.08	0.92	0.00	-0.84	0.00E+00
Feb	1990	35.00	0.00	0	0.00	0.4	1.23	0.00	-0.83	0.00E+00
Mar	1990	35.00	0.78	0.03	0.27	1.17	1.98	0.00	-0.54	0.00E+00
Apr	1990	35.00	11.01	0.42	3.77	2.31	3.3	62.41	-49.63	5.14E-05
May	1990	35.00	56.09	2.14	19.23	4.45	4.4	62.41	-33.13	5.14E-05
Jun	1990	35.00	8.55	0.25	2.28	1.22	5.78	62.41	-54.71	5.14E-05
Jul	1990	35.00	54.51	2.08	18.89	3.84	7.08	62.41	-38.86	5.14E-05
Aug	1990	35.00	5.24	0.2	1.80	0.88	8.95	62.41	-58.70	5.14E-05
Sep	1990	35.00	35.12	1.34	12.04	2.48	5.5	62.41	-43.39	5.14E-05
Oct	1990	35.00	1.83	0.07	0.83	0.89	3.74	62.41	-54.83	5.14E-05
Nov	1990	35.00	6.81	0.26	2.34	1.12	2.03	62.41	-60.99	5.14E-05
Dec	1990	35.00	0.79	0.03	0.27	0.32	1.1	0.00	-0.51	0.00E+00
Jan	1991	35.00	0.00	0	0.00	0.15	0.92	0.00	-0.77	0.00E+00
Feb	1991	35.00	0.00	0	0.00	0.9	1.28	0.00	-0.38	0.00E+00

1985-1999 Estimated Monthly Water Balance for Evap Pond--Dewey Site (XD Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Bag. Mon. Pond Depth (in/mo)	Mon. Precip. (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Dewey Perm. (cm/sec)
Mar	1991	35.00	0.00	0	0.00	0.35	1.98	0.00	-1.63	0.00E+00
Apr	1991	35.00	4.46	0.17	1.53	1.58	3.3	52.41	-52.60	5.14E-05
May	1991	35.00	58.35	2.16	19.32	4.91	4.4	52.41	-32.58	5.14E-05
Jun	1991	35.00	39.05	1.49	13.39	3.16	6.76	52.41	-41.82	5.14E-05
Jul	1991	35.00	0.26	0.01	0.09	0.38	7.08	52.41	-59.04	5.14E-05
Aug	1991	35.00	13.89	0.53	4.78	1.52	6.95	52.41	-53.08	5.14E-05
Sep	1991	35.00	0.00	0	0.00	0.29	5.5	52.41	-57.82	5.14E-05
Oct	1991	35.00	4.72	0.18	1.62	0.95	3.74	52.41	-53.58	5.14E-05
Nov	1991	35.00	0.26	0.01	0.09	0.51	2.03	52.41	-53.84	5.14E-05
Dec	1991	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1992	35.00	0.00	0	0.00	0.32	0.92	0.00	-0.80	0.00E+00
Feb	1992	35.00	1.83	0.07	0.63	0.51	1.23	0.00	-0.09	0.00E+00
Mar	1992	35.00	5.77	0.22	1.96	1.07	1.98	0.00	1.07	0.00E+00
Apr	1992	35.00	0.79	0.03	1.34	0.66	3.3	52.41	-53.72	5.14E-05
May	1992	35.00	30.88	1.17	10.51	2.76	4.4	52.41	-43.54	5.14E-05
Jun	1992	35.00	13.37	0.51	4.58	1.88	5.76	52.41	-51.71	5.14E-05
Jul	1992	35.00	45.08	1.72	15.46	3.92	7.08	52.41	-40.12	5.14E-05
Aug	1992	35.00	14.68	0.56	5.03	1.74	6.95	52.41	-52.59	5.14E-05
Sep	1992	35.00	0.00	0	0.00	0.06	5.6	52.41	-57.83	5.14E-05
Oct	1992	35.00	1.57	0.06	0.54	0.61	3.74	52.41	-55.00	5.14E-05
Nov	1992	35.00	0.00	0	0.00	0.2	2.03	52.41	-54.24	5.14E-05
Dec	1992	35.00	0.00	0	0.00	0.33	1.1	0.00	-0.77	0.00E+00
Jan	1993	35.00	0.00	0	0.00	0.28	0.92	0.00	-0.86	0.00E+00
Feb	1993	35.00	0.00	0	0.00	0.13	1.23	0.00	-1.10	0.00E+00
Mar	1993	35.00	5.77	0.22	1.98	3.58	1.98	0.00	3.58	0.00E+00
Apr	1993	35.00	13.89	0.53	8.34	1.71	3.3	52.41	-45.88	5.14E-05
May	1993	35.00	16.77	0.64	5.75	1.98	4.4	52.41	-49.08	5.14E-05
Jun	1993	35.00	101.89	3.88	34.86	6.14	5.76	52.41	-17.17	5.14E-05
Jul	1993	35.00	28.57	1.09	8.79	2.87	7.08	52.41	-47.03	5.14E-05
Aug	1993	35.00	20.18	0.77	6.92	1.82	6.95	52.41	-50.62	5.14E-05
Sep	1993	35.00	2.10	0.08	0.72	1	5.6	52.41	-56.19	5.14E-05
Oct	1993	35.00	12.58	0.48	4.31	1.48	3.74	52.41	-50.36	5.14E-05
Nov	1993	35.00	0.00	0	0.00	0.72	2.03	52.41	-53.72	5.14E-05
Dec	1993	35.00	0.00	0	0.00	0.82	1.1	0.00	-0.28	0.00E+00
Jan	1994	35.00	0.00	0	0.00	0.6	0.92	0.00	-0.32	0.00E+00
Feb	1994	35.00	0.00	0	0.00	0.38	1.23	0.00	-0.87	0.00E+00
Mar	1994	35.00	0.00	0	0.00	0.73	1.98	0.00	-1.25	0.00E+00
Apr	1994	35.00	9.98	0.38	3.41	1.62	3.3	52.41	-50.88	5.14E-05
May	1994	35.00	11.53	0.44	3.85	1.47	4.4	52.41	-51.39	5.14E-05
Jun	1994	35.00	6.29	0.24	2.16	1.22	5.76	52.41	-54.79	5.14E-05
Jul	1994	35.00	18.25	0.82	5.57	2.04	7.08	52.41	-51.88	5.14E-05
Aug	1994	35.00	1.05	0.04	0.38	0.45	6.95	52.41	-58.55	5.14E-05
Sep	1994	35.00	0.00	0	0.00	0.32	5.6	52.41	-57.59	5.14E-05
Oct	1994	35.00	12.84	0.49	4.40	2.19	3.74	52.41	-49.56	5.14E-05
Nov	1994	35.00	0.00	0	0.00	0.3	2.03	52.41	-54.14	5.14E-05
Dec	1994	35.00	0.00	0	0.00	0.71	1.1	0.00	-0.39	0.00E+00
Jan	1995	35.00	0.00	0	0.00	0.62	0.92	0.00	-0.40	0.00E+00
Feb	1995	35.00	0.00	0	0.00	0.7	1.28	0.00	-0.58	0.00E+00
Mar	1995	35.00	0.00	0	0.00	0.63	1.98	0.00	-1.35	0.00E+00
Apr	1995	35.00	1.31	0.05	0.46	1.38	3.3	52.41	-53.90	5.14E-05
May	1995	35.00	39.53	1.47	13.21	4.42	4.4	52.41	-39.18	5.14E-05
Jun	1995	35.00	39.57	1.51	13.57	3.09	5.76	52.41	-41.51	5.14E-05
Jul	1995	35.00	1.31	0.05	0.45	1.07	7.08	52.41	-57.97	5.14E-05
Aug	1995	35.00	1.57	0.06	0.54	0.65	6.95	52.41	-58.27	5.14E-05
Sep	1995	35.00	53.73	2.05	18.42	3.61	5.6	52.41	-35.88	5.14E-05
Oct	1995	35.00	5.50	0.21	1.89	1.43	3.74	52.41	-52.83	5.14E-05
Nov	1995	35.00	2.38	0.09	0.81	0.81	2.03	52.41	-52.82	5.14E-05
Dec	1995	35.00	0.00	0	0.00	0.13	1.1	0.00	-0.97	0.00E+00
Jan	1996	35.00	0.00	0	0.00	0.35	0.92	0.00	-0.57	0.00E+00
Feb	1996	35.00	0.00	0	0.00	0.24	1.23	0.00	-0.99	0.00E+00
Mar	1996	35.00	0.00	0	0.00	0.92	1.98	0.00	-1.06	0.00E+00
Apr	1996	35.00	28.83	1.1	9.88	3	3.3	52.41	-42.83	5.14E-05
May	1996	35.00	35.38	1.35	12.13	3.69	4.4	52.41	-40.99	5.14E-05
Jun	1996	35.00	17.58	0.67	6.02	1.85	5.76	52.41	-50.30	5.14E-05
Jul	1996	35.00	0.62	0.02	0.18	0.55	7.08	52.41	-58.76	5.14E-05
Aug	1996	35.00	32.76	1.25	11.23	2.72	6.95	52.41	-45.41	5.14E-05
Sep	1996	35.00	8.55	0.25	2.25	1.37	5.6	52.41	-54.30	5.14E-05
Oct	1996	35.00	7.34	0.28	2.52	1.79	3.74	52.41	-51.85	5.14E-05
Nov	1996	35.00	0.00	0	0.00	0.5	2.03	52.41	-53.94	5.14E-05
Dec	1996	35.00	0.00	0	0.00	0.82	1.1	0.00	-0.48	0.00E+00
Jan	1997	35.00	0.00	0	0.00	0.82	0.92	0.00	-0.30	0.00E+00
Feb	1997	35.00	0.00	0	0.00	0.48	1.23	0.00	-0.75	0.00E+00
Mar	1997	35.00	0.00	0	0.00	0.32	1.98	0.00	-1.88	0.00E+00
Apr	1997	35.00	15.73	0.6	5.39	2.52	3.3	52.41	-47.80	5.14E-05

1986-1999 Estimated Monthly Water Balance for Evap Pond-Dewey Site (XD Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip. (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Dewey Perm. (cm/sec)
May	1997	35.00	27.26	1.04	9.35	2.84	4.4	52.41	-44.83	5.14E-05
Jun	1997	35.00	34.07	1.3	11.88	3.17	5.78	52.41	-43.32	5.14E-05
Jul	1997	35.00	67.82	2.68	23.18	4.81	7.08	52.41	-31.70	5.14E-05
Aug	1997	35.00	6.60	0.21	1.89	1.05	6.95	52.41	-58.42	5.14E-05
Sep	1997	35.00	2.38	0.09	0.81	0.73	5.5	52.41	-58.37	5.14E-05
Oct	1997	35.00	1.05	0.04	0.38	0.7	3.74	52.41	-56.09	5.14E-05
Nov	1997	35.00	2.10	0.08	0.72	0.43	2.03	52.41	-53.29	5.14E-05
Dec	1997	35.00	0.00	0	0.00	0.28	1.1	0.00	-0.84	0.00E+00
Jan	1998	35.00	0.00	0	0.00	0.62	0.92	0.00	-0.40	0.00E+00
Feb	1998	35.00	2.88	0.11	0.99	0.78	1.23	0.00	0.64	0.00E+00
Mar	1998	35.00	19.39	0.74	7.19	2.02	1.98	0.00	-52.23	0.00E+00
Apr	1998	35.00	0.00	0	7.23	0.27	3.3	52.41	-48.21	5.14E-05
May	1998	35.00	31.19	1.19	10.69	3.58	4.4	52.41	-42.54	5.14E-05
Jun	1998	35.00	51.83	1.97	17.70	3.38	5.78	52.41	-37.11	5.14E-05
Jul	1998	35.00	45.34	1.73	15.55	3.38	7.08	52.41	-40.57	5.14E-05
Aug	1998	35.00	29.35	1.12	10.08	2.38	6.95	52.41	-48.94	5.14E-05
Sep	1998	35.00	33.55	1.28	11.50	2.08	5.5	52.41	-44.33	5.14E-05
Oct	1998	35.00	44.56	1.7	15.28	4.16	3.74	52.41	-38.72	5.14E-05
Nov	1998	35.00	8.65	0.33	2.97	1.42	2.03	52.41	-50.08	5.14E-05
Dec	1998	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1999	35.00	0.00	0	0.00	0.65	0.92	0.00	-0.37	0.00E+00
Feb	1999	35.00	0.00	0	0.00	0.12	1.28	0.00	-1.16	0.00E+00
Mar	1999	35.00	0.00	0	0.00	0.55	1.98	0.00	-1.43	0.00E+00
Apr	1999	35.00	28.21	1	8.99	3.76	3.3	52.41	-42.97	5.14E-05
May	1999	35.00	2.38	0.09	0.81	1.17	4.4	52.41	-54.83	5.14E-05
Jun	1999	35.00	65.18	3.25	29.20	5.57	5.78	52.41	-23.40	5.14E-05
Jul	1999	35.00	4.98	0.19	1.71	0.98	7.08	52.41	-58.80	5.14E-05
Aug	1999	35.00	31.45	1.2	10.78	1.88	6.95	52.41	-48.62	5.14E-05
Sep	1999	35.00	20.44	0.78	7.01	1.79	5.5	52.41	-49.11	5.14E-05
Oct	1999	35.00	0.00	0	0.00	0.64	3.74	52.41	-58.11	5.14E-05
Nov	1999	35.00	0.79	0.03	0.27	0.68	2.03	52.41	-53.81	5.14E-05
Dec	1999	35.00	0.00	0	0.00	0.12	1.1	0.00	-0.98	0.00E+00
				5.42		18.98	44.00		7.23	

Assumes seepage is 0.00 for January, February, March and December due to frozen soils
 Trial is for bare soil, 314.5 acres irrigated area

Permeability value is geometric mean of three available permeability values from Dewey test pits, see
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1986-2000 Estimated Monthly Water Balance for Evap Pond--Dewey Site (XD Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip. (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Dewey Perm. (cm/sec)
Jan	1986	35.00	0.00	0	0.00	0.07	0.92	0.00	-0.85	0.00E+00
Feb	1986	35.00	0.00	0	0.00	1.08	1.23	0.00	-0.17	0.00E+00
Mar	1986	35.00	0.00	0	0.00	0.62	1.88	0.00	-1.46	0.00E+00
Apr	1986	35.00	32.24	1.23	11.05	3.27	3.3	52.41	-41.39	5.14E-05
May	1986	35.00	8.39	0.32	2.88	1.07	4.4	54.18	-54.81	5.14E-05
Jun	1986	35.00	68.05	2.52	22.64	4.87	5.78	52.41	-30.88	5.14E-05
Jul	1986	35.00	5.24	0.2	1.80	1.83	7.08	54.18	-57.81	5.14E-05
Aug	1986	35.00	8.81	0.26	2.34	1.19	8.95	54.18	-57.58	5.14E-05
Sep	1986	35.00	31.97	1.22	10.98	3.52	5.5	52.41	-43.43	5.14E-05
Oct	1986	35.00	55.30	2.11	18.96	3.88	3.74	54.18	-35.06	5.14E-05
Nov	1986	35.00	2.10	0.08	0.72	0.86	2.03	52.41	-52.86	5.14E-05
Dec	1986	35.00	0.00	0	0.00	0.09	1.1	0.00	-1.01	0.00E+00
Jan	1987	35.00	0.00	0	0.00	0.13	0.82	0.00	-0.79	0.00E+00
Feb	1987	35.00	0.00	0	0.00	0.87	1.23	0.00	-0.36	0.00E+00
Mar	1987	35.00	3.15	0.12	1.08	2.22	1.88	0.00	1.32	0.00E+00
Apr	1987	35.00	4.98	0.19	3.03	0.69	3.3	52.41	-52.00	5.14E-05
May	1987	35.00	22.02	0.84	7.55	2.87	4.4	54.18	-48.04	5.14E-05
Jun	1987	35.00	0.79	0.03	0.27	0.59	5.78	52.41	-57.31	5.14E-05
Jul	1987	35.00	15.73	0.8	5.39	1.71	7.08	54.18	-54.14	5.14E-05
Aug	1987	35.00	2.36	0.09	0.81	1.04	8.95	54.18	-58.28	5.14E-05
Sep	1987	35.00	2.82	0.1	0.80	0.78	5.5	52.41	-58.25	5.14E-05
Oct	1987	35.00	0.26	0.01	0.09	0.42	3.74	54.18	-57.39	5.14E-05
Nov	1987	35.00	5.50	0.21	1.89	0.71	2.03	52.41	-51.84	5.14E-05
Dec	1987	35.00	0.28	0.01	0.09	0.25	1.1	0.00	-0.78	0.00E+00
Jan	1988	35.00	0.00	0	0.00	0.83	0.92	0.00	-0.29	0.00E+00
Feb	1988	35.00	0.00	0	0.00	0.21	1.28	0.00	-1.07	0.00E+00
Mar	1988	35.00	0.00	0	0.00	1.17	1.88	0.00	-0.81	0.00E+00
Apr	1988	35.00	1.57	0.06	0.54	0.63	3.3	52.41	-54.64	5.14E-05
May	1988	35.00	20.18	0.77	8.92	2.84	4.4	54.18	-49.00	5.14E-05
Jun	1988	35.00	41.93	1.6	14.38	2.78	5.78	52.41	-41.01	5.14E-05
Jul	1988	35.00	28.57	1.09	9.79	2.18	7.08	54.18	-49.28	5.14E-05
Aug	1988	35.00	27.78	1.06	9.52	1.87	8.95	54.18	-49.71	5.14E-05
Sep	1988	35.00	1.05	0.04	0.38	0.84	5.5	52.41	-58.71	5.14E-05
Oct	1988	35.00	0.00	0	0.00	0.09	3.74	54.18	-57.81	5.14E-05
Nov	1988	35.00	0.28	0.01	0.09	0.52	2.03	52.41	-53.83	5.14E-05
Dec	1988	35.00	0.00	0	0.00	0.23	1.1	0.00	-0.87	0.00E+00
Jan	1989	35.00	0.00	0	0.00	0.09	0.92	0.00	-0.83	0.00E+00
Feb	1989	35.00	0.00	0	0.00	0.6	1.23	0.00	-0.63	0.00E+00
Mar	1989	35.00	0.52	0.02	0.18	1.14	1.88	0.00	-0.66	0.00E+00
Apr	1989	35.00	10.75	0.41	3.88	1.67	3.3	52.41	-50.36	5.14E-05
May	1989	35.00	3.15	0.12	1.08	1.41	4.4	52.41	-54.32	5.14E-05
Jun	1989	35.00	2.10	0.08	0.72	1.2	5.78	52.41	-58.25	5.14E-05
Jul	1989	35.00	26.47	1.01	9.08	2.21	7.08	52.41	-48.21	5.14E-05
Aug	1989	35.00	14.41	0.55	4.94	1.48	8.95	52.41	-52.96	5.14E-05
Sep	1989	35.00	64.47	2.48	22.10	3.94	5.5	52.41	-31.87	5.14E-05
Oct	1989	35.00	2.88	0.11	0.89	1.07	3.74	52.41	-54.09	5.14E-05
Nov	1989	35.00	0.00	0	0.00	0.23	2.03	52.41	-54.21	5.14E-05
Dec	1989	35.00	0.00	0	0.00	0.56	1.1	0.00	-0.54	0.00E+00
Jan	1990	35.00	0.00	0	0.00	0.08	0.92	0.00	-0.84	0.00E+00
Feb	1990	35.00	0.00	0	0.00	0.4	1.23	0.00	-0.83	0.00E+00
Mar	1990	35.00	0.79	0.03	0.27	1.17	1.88	0.00	-0.54	0.00E+00
Apr	1990	35.00	11.01	0.42	3.77	2.31	3.3	52.41	-49.63	5.14E-05
May	1990	35.00	58.09	2.14	19.23	4.45	4.4	52.41	-33.13	5.14E-05
Jun	1990	35.00	6.55	0.25	2.25	1.22	5.78	52.41	-54.71	5.14E-05
Jul	1990	35.00	54.25	2.07	18.80	3.84	7.08	52.41	-37.05	5.14E-05
Aug	1990	35.00	5.24	0.2	1.80	0.86	8.95	52.41	-58.70	5.14E-05
Sep	1990	35.00	35.12	1.34	12.04	2.48	5.5	52.41	-43.39	5.14E-05
Oct	1990	35.00	1.83	0.07	0.83	0.89	3.74	52.41	-54.63	5.14E-05
Nov	1990	35.00	8.81	0.28	2.34	1.12	2.03	52.41	-50.89	5.14E-05
Dec	1990	35.00	0.79	0.03	0.27	0.32	1.1	0.00	-0.51	0.00E+00
Jan	1991	35.00	0.00	0	0.00	0.15	0.92	0.00	-0.77	0.00E+00
Feb	1991	35.00	0.00	0	0.00	0.9	1.23	0.00	-0.33	0.00E+00
Mar	1991	35.00	0.00	0	0.00	0.35	1.88	0.00	-1.63	0.00E+00
Apr	1991	35.00	4.46	0.17	1.53	1.68	3.3	52.41	-62.80	5.14E-05
May	1991	35.00	58.35	2.15	19.32	4.81	4.4	52.41	-32.58	5.14E-05
Jun	1991	35.00	39.05	1.49	13.39	3.16	5.78	52.41	-41.62	5.14E-05
Jul	1991	35.00	0.28	0.01	0.09	0.38	7.08	52.41	-58.04	5.14E-05
Aug	1991	35.00	13.89	0.53	4.78	1.52	8.95	52.41	-53.08	5.14E-05
Sep	1991	35.00	0.00	0	0.00	0.29	5.5	52.41	-57.82	5.14E-05
Oct	1991	35.00	4.72	0.18	1.82	0.95	3.74	52.41	-63.58	5.14E-05
Nov	1991	35.00	0.28	0.01	0.09	0.61	2.03	52.41	-63.84	5.14E-05
Dec	1991	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1992	35.00	0.00	0	0.00	0.32	0.92	0.00	-0.80	0.00E+00
Feb	1992	35.00	1.83	0.07	0.63	0.51	1.28	0.00	-0.14	0.00E+00

1988-2000 Estimated Monthly Water Balance for Evap Pond--Dewey Site (XD Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip. (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Dewey Perm. (cm/sec)
Mar	1992	35.00	5.77	0.22	1.98	1.07	1.98	0.00	1.07	0.00E+00
Apr	1992	35.00	0.79	0.03	1.34	0.86	3.3	52.41	-53.72	5.14E-05
May	1992	35.00	30.88	1.17	10.51	2.78	4.4	52.41	-43.54	5.14E-05
Jun	1992	35.00	13.37	0.61	4.66	1.88	5.76	52.41	-51.71	5.14E-05
Jul	1992	35.00	45.08	1.72	15.48	3.82	7.08	52.41	-40.12	5.14E-05
Aug	1992	35.00	14.88	0.58	5.03	1.74	8.95	52.41	-52.59	5.14E-05
Sep	1992	35.00	0.00	0	0.00	0.08	6.6	52.41	-57.83	5.14E-05
Oct	1992	35.00	1.57	0.06	0.54	0.61	3.74	52.41	-55.00	5.14E-05
Nov	1992	35.00	0.00	0	0.00	0.2	2.03	52.41	-54.24	5.14E-05
Dec	1992	35.00	0.00	0	0.00	0.33	1.1	0.00	-0.77	0.00E+00
Jan	1993	35.00	0.00	0	0.00	0.28	0.92	0.00	-0.68	0.00E+00
Feb	1993	35.00	0.00	0	0.00	0.13	1.23	0.00	-1.10	0.00E+00
Mar	1993	35.00	5.77	0.22	1.98	3.58	1.98	0.00	3.58	0.00E+00
Apr	1993	35.00	13.89	0.53	8.34	1.71	3.3	52.41	-45.66	5.14E-05
May	1993	35.00	18.77	0.64	5.75	1.98	4.4	52.41	-49.08	5.14E-05
Jun	1993	35.00	101.89	3.88	34.88	6.14	5.76	52.41	-17.17	5.14E-05
Jul	1993	35.00	28.67	1.09	9.79	2.67	7.08	52.41	-47.03	5.14E-05
Aug	1993	35.00	20.18	0.77	6.92	1.82	6.95	52.41	-50.62	5.14E-05
Sep	1993	35.00	2.10	0.08	0.72	1	5.5	52.41	-58.19	5.14E-05
Oct	1993	35.00	12.58	0.48	4.31	1.48	3.74	52.41	-50.36	5.14E-05
Nov	1993	35.00	0.00	0	0.00	0.72	2.03	52.41	-53.72	5.14E-05
Dec	1993	35.00	0.00	0	0.00	0.82	1.1	0.00	-0.28	0.00E+00
Jan	1994	35.00	0.00	0	0.00	0.6	0.92	0.00	-0.32	0.00E+00
Feb	1994	35.00	0.00	0	0.00	0.38	1.23	0.00	-0.87	0.00E+00
Mar	1994	35.00	0.00	0	0.00	0.73	1.98	0.00	-1.25	0.00E+00
Apr	1994	35.00	9.98	0.38	3.41	1.62	3.3	52.41	-50.68	5.14E-05
May	1994	35.00	11.53	0.44	3.95	1.47	4.4	52.41	-51.39	5.14E-05
Jun	1994	35.00	8.29	0.24	2.16	1.22	5.76	52.41	-54.79	5.14E-05
Jul	1994	35.00	18.25	0.62	5.57	2.04	7.08	52.41	-51.88	5.14E-05
Aug	1994	35.00	1.05	0.04	0.36	0.45	6.95	52.41	-58.55	5.14E-05
Sep	1994	35.00	0.00	0	0.00	0.32	5.5	52.41	-57.59	5.14E-05
Oct	1994	35.00	12.84	0.49	4.40	2.19	3.74	52.41	-48.58	5.14E-05
Nov	1994	35.00	0.00	0	0.00	0.3	2.03	52.41	-54.14	5.14E-05
Dec	1994	35.00	0.00	0	0.00	0.71	1.1	0.00	-0.39	0.00E+00
Jan	1995	35.00	0.00	0	0.00	0.52	0.92	0.00	-0.40	0.00E+00
Feb	1995	35.00	0.00	0	0.00	0.7	1.23	0.00	-0.53	0.00E+00
Mar	1995	35.00	0.00	0	0.00	0.83	1.98	0.00	-1.35	0.00E+00
Apr	1995	35.00	1.31	0.05	0.45	1.38	3.3	52.41	-53.90	5.14E-05
May	1995	35.00	38.53	1.47	13.21	4.42	4.4	52.41	-39.18	5.14E-05
Jun	1995	35.00	39.57	1.51	13.57	3.09	5.76	52.41	-41.51	5.14E-05
Jul	1995	35.00	1.31	0.05	0.45	1.07	7.08	52.41	-57.97	5.14E-05
Aug	1995	35.00	1.57	0.08	0.54	0.55	6.95	52.41	-58.27	5.14E-05
Sep	1995	35.00	63.73	2.05	18.42	3.81	5.5	52.41	-35.88	5.14E-05
Oct	1995	35.00	5.50	0.21	1.89	1.43	3.74	52.41	-52.83	5.14E-05
Nov	1995	35.00	2.38	0.09	0.81	0.81	2.03	52.41	-52.82	5.14E-05
Dec	1995	35.00	0.00	0	0.00	0.13	1.1	0.00	-0.97	0.00E+00
Jan	1996	35.00	0.00	0	0.00	0.35	0.92	0.00	-0.57	0.00E+00
Feb	1996	35.00	0.00	0	0.00	0.24	1.28	0.00	-1.04	0.00E+00
Mar	1996	35.00	0.00	0	0.00	0.92	1.98	0.00	-1.08	0.00E+00
Apr	1996	35.00	28.83	1.1	9.88	3	3.3	52.41	-42.83	5.14E-05
May	1996	35.00	35.38	1.35	12.13	3.89	4.4	52.41	-40.99	5.14E-05
Jun	1996	35.00	17.56	0.67	6.02	1.85	5.76	52.41	-50.30	5.14E-05
Jul	1996	35.00	0.62	0.02	0.18	0.55	7.08	52.41	-58.76	5.14E-05
Aug	1996	35.00	32.78	1.25	11.23	2.72	6.95	52.41	-45.41	5.14E-05
Sep	1996	35.00	6.55	0.25	2.25	1.37	5.5	52.41	-54.30	5.14E-05
Oct	1996	35.00	7.34	0.28	2.52	1.79	3.74	52.41	-51.85	5.14E-05
Nov	1996	35.00	0.00	0	0.00	0.5	2.03	52.41	-53.94	5.14E-05
Dec	1996	35.00	0.00	0	0.00	0.82	1.1	0.00	-0.48	0.00E+00
Jan	1997	35.00	0.00	0	0.00	0.82	0.92	0.00	-0.30	0.00E+00
Feb	1997	35.00	0.00	0	0.00	0.48	1.23	0.00	-0.75	0.00E+00
Mar	1997	35.00	0.00	0	0.00	0.32	1.98	0.00	-1.68	0.00E+00
Apr	1997	35.00	16.73	0.6	6.39	2.52	3.3	52.41	-47.80	5.14E-05
May	1997	35.00	27.28	1.04	8.35	2.84	4.4	52.41	-44.63	5.14E-05
Jun	1997	35.00	34.07	1.3	11.88	3.17	5.76	52.41	-43.32	5.14E-05
Jul	1997	35.00	67.82	2.58	23.18	4.81	7.08	52.41	-31.70	5.14E-05
Aug	1997	35.00	5.50	0.21	1.89	1.05	6.95	52.41	-58.42	5.14E-05
Sep	1997	35.00	2.38	0.09	0.81	0.73	5.5	52.41	-58.37	5.14E-05
Oct	1997	35.00	1.05	0.04	0.36	0.7	3.74	52.41	-55.08	5.14E-05
Nov	1997	35.00	2.10	0.08	0.72	0.43	2.03	52.41	-53.29	5.14E-05
Dec	1997	35.00	0.00	0	0.00	0.28	1.1	0.00	-0.84	0.00E+00
Jan	1998	35.00	0.00	0	0.00	0.52	0.92	0.00	-0.40	0.00E+00
Feb	1998	35.00	2.88	0.11	0.89	0.78	1.23	0.00	0.64	0.00E+00
Mar	1998	35.00	19.38	0.74	7.19	2.02	1.98	0.00	-48.21	0.00E+00
Apr	1998	35.00	0.00	0	7.23	0.27	3.3	52.41	-48.21	5.14E-05

1988-2000 Estimated Monthly Water Balance for Evap Pond--Dewey Site (XD Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip. (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Dewey Perm. (cm/sec)
May	1988	35.00	31.19	1.19	10.89	3.58	4.4	52.41	-42.64	5.14E-05
Jun	1988	35.00	51.83	1.97	17.70	3.38	5.78	52.41	-37.11	5.14E-05
Jul	1988	35.00	45.34	1.73	15.56	3.38	7.08	52.41	-40.57	5.14E-05
Aug	1988	35.00	29.35	1.12	10.06	2.36	8.95	52.41	-48.94	5.14E-05
Sep	1988	35.00	33.55	1.28	11.50	2.08	5.5	52.41	-44.33	5.14E-05
Oct	1988	35.00	44.55	1.7	15.28	4.16	3.74	52.41	-36.72	5.14E-05
Nov	1988	35.00	8.65	0.33	2.97	1.42	2.03	52.41	-50.06	5.14E-05
Dec	1988	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1989	35.00	0.00	0	0.00	0.55	0.82	0.00	-0.37	0.00E+00
Feb	1989	35.00	0.00	0	0.00	0.12	1.23	0.00	-1.11	0.00E+00
Mar	1989	35.00	0.00	0	0.00	0.55	1.98	0.00	-1.43	0.00E+00
Apr	1989	35.00	26.21	1	8.99	3.78	3.3	52.41	-42.87	5.14E-05
May	1989	35.00	2.36	0.09	0.81	1.17	4.4	52.41	-54.83	5.14E-05
Jun	1989	35.00	85.18	3.26	29.20	5.57	5.78	52.41	-23.40	5.14E-05
Jul	1989	35.00	4.98	0.19	1.71	0.98	7.08	52.41	-56.80	5.14E-05
Aug	1989	35.00	31.45	1.2	10.78	1.88	8.95	52.41	-48.82	5.14E-05
Sep	1989	35.00	20.44	0.78	7.01	1.79	5.5	52.41	-49.11	5.14E-05
Oct	1989	35.00	0.00	0	0.00	0.04	3.74	52.41	-58.11	5.14E-05
Nov	1989	35.00	0.79	0.03	0.27	0.68	2.03	52.41	-53.61	5.14E-05
Dec	1989	35.00	0.00	0	0.00	0.12	1.1	0.00	-0.98	0.00E+00
Jan	2000	35.00	0.00	0	0.00	0.16	0.92	0.00	-0.78	0.00E+00
Feb	2000	35.00	0.28	0.01	0.09	1.09	1.28	0.00	-0.10	0.00E+00
Mar	2000	35.00	8.12	0.31	2.79	1.48	1.98	0.00	2.29	0.00E+00
Apr	2000	35.00	89.45	2.65	26.10	4.74	3.3	52.41	-24.87	5.14E-05
May	2000	35.00	0.52	0.02	0.18	0.78	4.4	52.41	-55.85	5.14E-05
Jun	2000	35.00	0.00	0	0.00	0.43	5.78	52.41	-57.74	5.14E-05
Jul	2000	35.00	16.51	0.63	5.88	2.24	7.08	52.41	-51.59	5.14E-05
Aug	2000	35.00	1.57	0.06	0.54	0.89	8.95	52.41	-58.13	5.14E-05
Sep	2000	35.00	4.48	0.17	1.53	1.03	5.5	52.41	-55.35	5.14E-05
Oct	2000	35.00	2.88	0.11	0.99	1.08	3.74	52.41	-54.06	5.14E-05
Nov	2000	35.00	0.00	0	0.00	0.43	2.03	52.41	-54.01	5.14E-05
Dec	2000	35.00	0.00	0	0.00	0.36	1.1	0.00	-0.74	0.00E+00
				5.48		17.08	44.00		7.23	

Assumes seepage is 0.00 for January, February, March and December due to frozen soils
 Trial is for bare soil, 314.5 acres irrigated area

Permeability value is geometric mean of three available permeability values from Dewey test pits, see
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1988-2002 Estimated Monthly Water Balance for Evap Pond--Dewey Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip. (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Dewey Perm. (cm/sec)
Jan	1988	35.00	0.00	0	0.00	0.24	0.92	0.00	-0.68	0.00E+00
Feb	1988	35.00	0.00	0	0.00	0.21	1.23	0.00	-1.02	0.00E+00
Mar	1988	35.00	0.00	0	0.00	1.17	1.98	0.00	-0.81	0.00E+00
Apr	1988	35.00	1.57	0.08	0.54	0.83	3.3	52.41	-54.54	5.14E-05
May	1988	35.00	20.18	0.77	8.92	2.64	4.4	54.16	-49.00	5.14E-05
Jun	1988	35.00	40.36	1.54	13.84	2.78	5.76	52.41	-41.55	5.14E-05
Jul	1988	35.00	22.02	0.84	7.55	2.18	7.08	54.16	-51.51	5.14E-05
Aug	1988	35.00	27.78	1.08	9.52	1.87	6.95	54.16	-48.71	5.14E-05
Sep	1988	35.00	1.05	0.04	0.38	0.84	5.5	52.41	-58.71	5.14E-05
Oct	1988	35.00	0.00	0	0.00	0.09	3.74	54.16	-57.81	5.14E-05
Nov	1988	35.00	0.26	0.01	0.09	0.52	2.03	52.41	-53.83	5.14E-05
Dec	1988	35.00	0.00	0	0.00	0.23	1.1	0.00	-0.87	0.00E+00
Jan	1989	35.00	0.00	0	0.00	0.09	0.92	0.00	-0.83	0.00E+00
Feb	1989	35.00	0.00	0	0.00	0.6	1.23	0.00	-0.83	0.00E+00
Mar	1989	35.00	0.52	0.02	0.18	1.14	1.98	0.00	-0.88	0.00E+00
Apr	1989	35.00	10.76	0.41	3.68	1.87	3.3	52.41	-50.36	5.14E-05
May	1989	35.00	3.16	0.12	1.08	1.41	4.4	54.16	-58.07	5.14E-05
Jun	1989	35.00	2.10	0.08	0.72	1.2	5.76	52.41	-58.25	5.14E-05
Jul	1989	35.00	20.18	0.77	8.92	2.21	7.08	54.16	-52.11	5.14E-05
Aug	1989	35.00	14.41	0.55	4.94	1.48	6.95	54.16	-54.71	5.14E-05
Sep	1989	35.00	64.47	2.46	22.10	3.84	5.5	52.41	-31.87	5.14E-05
Oct	1989	35.00	2.88	0.11	0.99	1.07	3.74	54.16	-55.84	5.14E-05
Nov	1989	35.00	0.00	0	0.00	0.23	2.03	52.41	-54.21	5.14E-05
Dec	1989	35.00	0.00	0	0.00	0.56	1.1	0.00	-0.54	0.00E+00
Jan	1990	35.00	0.00	0	0.00	0.08	0.92	0.00	-0.84	0.00E+00
Feb	1990	35.00	0.00	0	0.00	0.4	1.28	0.00	-0.88	0.00E+00
Mar	1990	35.00	0.78	0.03	0.27	1.17	1.98	0.00	-0.54	0.00E+00
Apr	1990	35.00	11.01	0.42	3.77	2.31	3.3	52.41	-49.83	5.14E-05
May	1990	35.00	52.94	2.02	18.15	4.45	4.4	54.16	-35.98	5.14E-05
Jun	1990	35.00	6.56	0.25	2.25	1.22	5.76	52.41	-54.71	5.14E-05
Jul	1990	35.00	54.26	2.07	18.60	3.84	7.08	54.16	-38.80	5.14E-05
Aug	1990	35.00	4.98	0.19	1.71	0.88	6.95	54.16	-58.54	5.14E-05
Sep	1990	35.00	35.12	1.34	12.04	2.48	5.5	52.41	-43.39	5.14E-05
Oct	1990	35.00	1.83	0.07	0.63	0.89	3.74	54.16	-58.38	5.14E-05
Nov	1990	35.00	8.81	0.26	2.34	1.12	2.03	52.41	-60.89	5.14E-05
Dec	1990	35.00	0.79	0.03	0.27	0.32	1.1	0.00	-0.51	0.00E+00
Jan	1991	35.00	0.00	0	0.00	0.15	0.92	0.00	-0.77	0.00E+00
Feb	1991	35.00	0.00	0	0.00	0.9	1.23	0.00	-0.33	0.00E+00
Mar	1991	35.00	0.00	0	0.00	0.35	1.98	0.00	-1.83	0.00E+00
Apr	1991	35.00	4.46	0.17	1.63	1.58	3.3	52.41	-52.80	5.14E-05
May	1991	35.00	56.36	2.15	18.32	4.91	4.4	52.41	-32.58	5.14E-05
Jun	1991	35.00	39.05	1.49	13.39	3.16	5.76	52.41	-41.82	5.14E-05
Jul	1991	35.00	0.28	0.01	0.08	0.38	7.08	52.41	-59.04	5.14E-05
Aug	1991	35.00	13.89	0.53	4.78	1.62	6.95	52.41	-53.08	5.14E-05
Sep	1991	35.00	0.00	0	0.00	0.29	5.5	52.41	-57.82	5.14E-05
Oct	1991	35.00	4.72	0.18	1.82	0.95	3.74	52.41	-53.58	5.14E-05
Nov	1991	35.00	0.28	0.01	0.08	0.51	2.03	52.41	-53.84	5.14E-05
Dec	1991	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.76	0.00E+00
Jan	1992	35.00	0.00	0	0.00	0.32	0.92	0.00	-0.60	0.00E+00
Feb	1992	35.00	1.83	0.07	0.63	0.51	1.23	0.00	-0.09	0.00E+00
Mar	1992	35.00	5.77	0.22	1.98	1.07	1.98	0.00	1.07	0.00E+00
Apr	1992	35.00	0.79	0.03	1.34	0.68	3.3	52.41	-53.72	5.14E-05
May	1992	35.00	30.66	1.17	10.51	2.78	4.4	52.41	-43.54	5.14E-05
Jun	1992	35.00	13.37	0.51	4.58	1.88	5.76	52.41	-51.71	5.14E-05
Jul	1992	35.00	45.08	1.72	15.48	3.92	7.08	52.41	-40.12	5.14E-05
Aug	1992	35.00	9.17	0.35	3.16	1.74	6.95	52.41	-54.48	5.14E-05
Sep	1992	35.00	0.00	0	0.00	0.08	5.5	52.41	-57.83	5.14E-05
Oct	1992	35.00	1.57	0.08	0.54	0.61	3.74	52.41	-55.00	5.14E-05
Nov	1992	35.00	0.00	0	0.00	0.2	2.03	52.41	-54.24	5.14E-05
Dec	1992	35.00	0.00	0	0.00	0.33	1.1	0.00	-0.77	0.00E+00
Jan	1993	35.00	0.00	0	0.00	0.26	0.92	0.00	-0.88	0.00E+00
Feb	1993	35.00	0.00	0	0.00	0.13	1.23	0.00	-1.10	0.00E+00
Mar	1993	35.00	5.77	0.22	1.98	3.58	1.98	0.00	3.58	0.00E+00
Apr	1993	35.00	13.89	0.53	8.34	1.71	3.3	52.41	-45.86	5.14E-05
May	1993	35.00	18.77	0.84	5.75	1.98	4.4	52.41	-48.08	5.14E-05
Jun	1993	35.00	101.89	3.88	34.88	6.14	5.76	52.41	-17.17	5.14E-05
Jul	1993	35.00	28.57	1.09	9.79	2.87	7.08	52.41	-47.03	5.14E-05
Aug	1993	35.00	20.18	0.77	8.92	1.82	6.95	52.41	-50.82	5.14E-05
Sep	1993	35.00	2.10	0.08	0.72	1	5.5	52.41	-58.19	5.14E-05
Oct	1993	35.00	12.58	0.48	4.31	1.48	3.74	52.41	-50.38	5.14E-05
Nov	1993	35.00	0.00	0	0.00	0.72	2.03	52.41	-53.72	5.14E-05
Dec	1993	35.00	0.00	0	0.00	0.82	1.1	0.00	-0.28	0.00E+00
Jan	1994	35.00	0.00	0	0.00	0.6	0.92	0.00	-0.32	0.00E+00
Feb	1994	35.00	0.00	0	0.00	0.35	1.28	0.00	-0.92	0.00E+00

1988-2002 Estimated Monthly Water Balance for Evap Pond-Dewey Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip. (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Dewey Perm. (cm/sec)
Mar	1994	35.00	0.00	0	0.00	0.73	1.98	0.00	-1.25	0.00E+00
Apr	1994	35.00	9.98	0.38	3.41	1.62	3.3	62.41	-50.68	5.14E-05
May	1994	35.00	11.63	0.44	3.95	1.47	4.4	52.41	-51.39	5.14E-05
Jun	1994	35.00	6.29	0.24	2.18	1.22	5.76	52.41	-54.79	5.14E-05
Jul	1994	35.00	16.25	0.62	5.67	2.04	7.08	52.41	-51.88	5.14E-05
Aug	1994	35.00	1.05	0.04	0.38	0.45	6.95	52.41	-58.55	5.14E-05
Sep	1994	35.00	0.00	0	0.00	0.32	5.6	52.41	-57.59	5.14E-05
Oct	1994	35.00	12.84	0.49	4.40	2.19	3.74	52.41	-49.58	5.14E-05
Nov	1994	35.00	0.00	0	0.00	0.3	2.03	52.41	-54.14	5.14E-05
Dec	1994	35.00	0.00	0	0.00	0.71	1.1	0.00	-0.39	0.00E+00
Jan	1995	35.00	0.00	0	0.00	0.52	0.92	0.00	-0.40	0.00E+00
Feb	1995	35.00	0.00	0	0.00	0.7	1.23	0.00	-0.63	0.00E+00
Mar	1995	35.00	0.00	0	0.00	0.63	1.98	0.00	-1.35	0.00E+00
Apr	1995	35.00	1.31	0.05	0.45	1.38	3.3	52.41	-53.90	5.14E-05
May	1995	35.00	38.63	1.47	13.21	4.42	4.4	52.41	-39.18	5.14E-05
Jun	1995	35.00	39.57	1.51	13.57	3.09	5.76	52.41	-41.51	5.14E-05
Jul	1995	35.00	1.31	0.05	0.45	1.07	7.08	52.41	-57.97	5.14E-05
Aug	1995	35.00	1.67	0.06	0.54	0.65	6.95	52.41	-68.27	5.14E-05
Sep	1995	35.00	53.73	2.05	18.42	3.61	5.6	52.41	-35.88	5.14E-05
Oct	1995	35.00	5.50	0.21	1.89	1.43	3.74	52.41	-52.83	5.14E-05
Nov	1995	35.00	2.38	0.09	0.81	0.81	2.03	52.41	-52.82	5.14E-05
Dec	1995	35.00	0.00	0	0.00	0.13	1.1	0.00	-0.97	0.00E+00
Jan	1996	35.00	0.00	0	0.00	0.35	0.92	0.00	-0.57	0.00E+00
Feb	1996	35.00	0.00	0	0.00	0.24	1.23	0.00	-0.89	0.00E+00
Mar	1996	35.00	0.00	0	0.00	0.92	1.98	0.00	-1.06	0.00E+00
Apr	1996	35.00	28.83	1.1	9.88	3	3.3	52.41	-42.83	5.14E-05
May	1996	35.00	35.38	1.35	12.13	3.69	4.4	52.41	-40.89	5.14E-05
Jun	1996	35.00	17.56	0.87	6.02	1.85	5.76	52.41	-50.30	5.14E-05
Jul	1996	35.00	0.52	0.02	0.18	0.55	7.08	52.41	-58.78	5.14E-05
Aug	1996	35.00	32.78	1.25	11.23	2.72	6.95	52.41	-45.41	5.14E-05
Sep	1996	35.00	6.55	0.25	2.25	1.37	5.6	52.41	-54.30	5.14E-05
Oct	1996	35.00	7.34	0.28	2.52	1.79	3.74	52.41	-51.85	5.14E-05
Nov	1996	35.00	0.00	0	0.00	0.5	2.03	52.41	-53.94	5.14E-05
Dec	1996	35.00	0.00	0	0.00	0.62	1.1	0.00	-0.48	0.00E+00
Jan	1997	35.00	0.00	0	0.00	0.62	0.92	0.00	-0.30	0.00E+00
Feb	1997	35.00	0.00	0	0.00	0.48	1.23	0.00	-0.75	0.00E+00
Mar	1997	35.00	0.00	0	0.00	0.32	1.98	0.00	-1.66	0.00E+00
Apr	1997	35.00	15.73	0.6	5.39	2.52	3.3	52.41	-47.80	5.14E-05
May	1997	35.00	27.26	1.04	9.35	2.84	4.4	52.41	-44.63	5.14E-05
Jun	1997	35.00	34.07	1.3	11.88	3.17	5.76	52.41	-43.32	5.14E-05
Jul	1997	35.00	67.82	2.58	23.18	4.61	7.08	52.41	-31.70	5.14E-05
Aug	1997	35.00	5.50	0.21	1.89	1.05	6.95	52.41	-58.42	5.14E-05
Sep	1997	35.00	2.38	0.09	0.81	0.73	5.6	52.41	-56.37	5.14E-05
Oct	1997	35.00	1.05	0.04	0.38	0.7	3.74	52.41	-55.09	5.14E-05
Nov	1997	35.00	2.10	0.08	0.72	0.43	2.03	52.41	-53.29	5.14E-05
Dec	1997	35.00	0.00	0	0.00	0.26	1.1	0.00	-0.84	0.00E+00
Jan	1998	35.00	0.00	0	0.00	0.52	0.92	0.00	-0.40	0.00E+00
Feb	1998	35.00	2.68	0.11	0.99	0.78	1.28	0.00	0.49	0.00E+00
Mar	1998	35.00	19.39	0.74	7.14	2.02	1.98	0.00	-48.26	5.14E-05
Apr	1998	35.00	0.00	0	7.18	0.27	3.3	52.41	-42.54	5.14E-05
May	1998	35.00	31.19	1.19	10.89	3.58	4.4	52.41	-37.11	5.14E-05
Jun	1998	35.00	51.63	1.87	17.70	3.38	5.76	52.41	-40.67	5.14E-05
Jul	1998	35.00	45.34	1.73	15.55	3.38	7.08	52.41	-46.94	5.14E-05
Aug	1998	35.00	28.35	1.12	10.06	2.36	6.95	52.41	-44.33	5.14E-05
Sep	1998	35.00	33.55	1.28	11.50	2.08	5.6	52.41	-38.72	5.14E-05
Oct	1998	35.00	44.55	1.7	15.28	4.18	3.74	52.41	-50.06	5.14E-05
Nov	1998	35.00	8.65	0.33	2.97	1.42	2.03	52.41	-0.75	0.00E+00
Dec	1998	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.37	0.00E+00
Jan	1999	35.00	0.00	0	0.00	0.55	0.92	0.00	-1.11	0.00E+00
Feb	1999	35.00	0.00	0	0.00	0.12	1.23	0.00	-1.43	0.00E+00
Mar	1999	35.00	0.00	0	0.00	0.65	1.98	0.00	-42.87	5.14E-05
Apr	1999	35.00	28.21	1	8.99	3.78	3.3	52.41	-54.83	5.14E-05
May	1999	35.00	2.38	0.09	0.81	1.17	4.4	52.41	-23.40	5.14E-05
Jun	1999	35.00	85.18	3.25	29.20	5.57	5.76	52.41	-58.80	5.14E-05
Jul	1999	35.00	4.98	0.19	1.71	0.98	7.08	52.41	-46.62	5.14E-05
Aug	1999	35.00	31.45	1.2	10.78	1.98	6.95	52.41	-58.11	5.14E-05
Sep	1999	35.00	20.44	0.78	7.01	1.79	5.6	52.41	-53.61	5.14E-05
Oct	1999	35.00	0.00	0	0.00	0.04	3.74	52.41	-0.96	0.00E+00
Nov	1999	35.00	0.79	0.03	0.27	0.58	2.03	52.41	-0.78	0.00E+00
Dec	1999	35.00	0.00	0	0.00	0.12	1.1	0.00	-0.05	0.00E+00
Jan	2000	35.00	0.00	0	0.00	0.18	0.92	0.00	2.29	0.00E+00
Feb	2000	35.00	0.28	0.01	0.08	1.09	1.23	0.00	-24.87	5.14E-05
Mar	2000	35.00	8.12	0.31	2.78	1.48	1.98	0.00		
Apr	2000	35.00	69.45	2.65	26.10	4.74	3.3	52.41		

1988-2002 Estimated Monthly Water Balance for Evap Pond--Dewey Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip. (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Dewey Perm. (cm/sec)
May	2000	35.00	0.52	0.02	0.18	0.78	4.4	52.41	-55.85	5.14E-05
Jun	2000	35.00	0.00	0	0.00	0.43	5.78	52.41	-57.74	5.14E-05
Jul	2000	35.00	18.51	0.83	5.68	2.24	7.08	52.41	-61.69	5.14E-05
Aug	2000	35.00	1.57	0.06	0.54	0.89	8.95	52.41	-58.13	5.14E-05
Sep	2000	35.00	4.48	0.17	1.53	1.03	5.6	52.41	-56.35	5.14E-05
Oct	2000	35.00	2.88	0.11	0.99	1.08	3.74	52.41	-54.08	5.14E-05
Nov	2000	35.00	0.00	0	0.00	0.43	2.03	52.41	-54.01	5.14E-05
Dec	2000	35.00	0.00	0	0.00	0.38	1.1	0.00	-0.74	0.00E+00
Jan	2001	35.00	0.00	0	0.00	0.08	0.82	0.00	-0.86	0.00E+00
Feb	2001	35.00	0.00	0	0.00	0.58	1.23	0.00	-0.85	0.00E+00
Mar	2001	35.00	0.00	0	0.00	0.95	1.98	0.00	-1.03	0.00E+00
Apr	2001	35.00	19.68	0.75	8.74	2.48	3.3	52.41	-48.51	5.14E-05
May	2001	35.00	10.75	0.41	3.88	1.67	4.4	52.41	-51.48	5.14E-05
Jun	2001	35.00	38.00	1.45	13.03	3.22	5.78	52.41	-41.92	5.14E-05
Jul	2001	35.00	90.42	3.45	31.00	4.96	7.08	52.41	-23.53	5.14E-05
Aug	2001	35.00	8.81	0.28	2.34	1.26	8.95	52.41	-55.77	5.14E-05
Sep	2001	35.00	0.00	0	0.00	0.33	5.5	52.41	-57.68	5.14E-05
Oct	2001	35.00	6.29	0.24	2.18	1.18	3.74	52.41	-52.81	5.14E-05
Nov	2001	35.00	5.77	0.22	1.98	1.3	2.03	52.41	-51.16	5.14E-05
Dec	2001	35.00	0.00	0	0.00	0.13	1.1	0.00	-0.97	0.00E+00
Jan	2002	35.00	0.00	0	0.00	0.04	0.82	0.00	-0.88	0.00E+00
Feb	2002	35.00	0.00	0	0.00	0.21	1.28	0.00	-1.07	0.00E+00
Mar	2002	35.00	0.00	0	0.00	1.44	1.98	0.00	-0.54	0.00E+00
Apr	2002	35.00	4.98	0.19	1.71	1.89	3.3	52.41	-52.31	5.14E-05
May	2002	35.00	8.03	0.23	2.07	1.88	4.4	52.41	-53.08	5.14E-05
Jun	2002	35.00	8.03	0.23	2.07	1.23	5.78	52.41	-54.87	5.14E-05
Jul	2002	35.00	1.57	0.06	0.54	0.74	7.08	52.41	-58.21	5.14E-05
Aug	2002	35.00	31.19	1.19	10.69	2.38	8.95	52.41	-48.29	5.14E-05
Sep	2002	35.00	27.78	1.08	8.52	2.47	5.5	52.41	-45.92	5.14E-05
Oct	2002	35.00	2.82	0.1	0.90	0.82	3.74	52.41	-54.43	5.14E-05
Nov	2002	35.00	0.26	0.01	0.09	0.33	2.03	52.41	-54.02	5.14E-05
Dec	2002	35.00	0.00	0	0.00	0.08	1.1	0.00	-1.02	0.00E+00
				5.40		18.82	44.00		7.18	

Assumes seepage is 0.00 for January, February, March and December due to frozen soils
 Trial is for bare soil, 314.5 acres irrigated area

Permeability value is geometric mean of three available permeability values from Burdock test pits, see
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2002-1988 Estimated Monthly Water Balance for Evap Pond--Dewey Site (XD Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip. (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Dewey Perm. (cm/sec)
Jan	2002	35.00	0.00	0	0.00	0.04	0.92	0.00	-0.88	0.00E+00
Feb	2002	35.00	0.00	0	0.00	0.21	1.23	0.00	-1.02	0.00E+00
Mar	2002	35.00	0.00	0	0.00	1.44	1.98	0.00	-0.54	0.00E+00
Apr	2002	35.00	4.98	0.19	1.71	1.89	3.3	52.41	-52.31	5.14E-05
May	2002	35.00	6.03	0.23	2.07	1.68	4.4	54.16	-54.81	5.14E-05
Jun	2002	35.00	6.03	0.23	2.07	1.23	5.76	52.41	-54.87	5.14E-05
Jul	2002	35.00	1.57	0.06	0.84	0.74	7.08	54.16	-59.96	5.14E-05
Aug	2002	35.00	30.93	1.18	10.60	2.38	8.95	54.16	-48.13	5.14E-05
Sep	2002	35.00	16.77	0.64	5.75	2.47	5.5	52.41	-49.69	5.14E-05
Oct	2002	35.00	2.82	0.1	0.90	0.82	3.74	54.16	-58.18	5.14E-05
Nov	2002	35.00	0.28	0.01	0.09	0.33	2.03	52.41	-54.02	5.14E-05
Dec	2002	35.00	0.00	0	0.00	0.08	1.1	0.00	-1.02	0.00E+00
Jan	2003	35.00	0.00	0	0.00	0.47	0.92	0.00	-0.45	0.00E+00
Feb	2003	35.00	0.00	0	0.00	0.43	1.23	0.00	-0.80	0.00E+00
Mar	2003	35.00	13.63	0.52	4.67	1.82	1.98	0.00	4.61	0.00E+00
Apr	2003	35.00	15.46	0.59	9.91	1.96	3.3	52.41	-43.84	5.14E-05
May	2003	35.00	12.32	0.47	4.22	1.95	4.4	54.16	-52.39	5.14E-05
Jun	2003	35.00	14.16	0.54	4.85	2.8	5.76	52.41	-50.52	5.14E-05
Jul	2003	35.00	0.00	0	0.00	0.05	7.08	54.16	-61.19	5.14E-05
Aug	2003	35.00	21.23	0.81	7.28	1.89	6.95	54.16	-51.94	5.14E-05
Sep	2003	35.00	10.75	0.41	3.88	1.58	5.5	52.41	-52.65	5.14E-05
Oct	2003	35.00	0.52	0.02	0.18	0.6	3.74	54.16	-57.12	5.14E-05
Nov	2003	35.00	0.28	0.01	0.09	0.44	2.03	52.41	-53.91	5.14E-05
Dec	2003	35.00	2.10	0.08	0.72	0.8	1.1	0.00	0.22	0.00E+00
Jan	2004	35.00	0.00	0	0.22	0.3	0.92	0.00	-0.40	0.00E+00
Feb	2004	35.00	0.00	0	0.00	1.3	1.28	0.00	0.02	0.00E+00
Mar	2004	35.00	0.00	0	0.02	0.06	1.98	0.00	-1.90	0.00E+00
Apr	2004	35.00	0.00	0	0.00	0.32	3.3	52.41	-55.39	5.14E-05
May	2004	35.00	1.31	0.05	0.45	0.97	4.4	54.16	-57.14	5.14E-05
Jun	2004	35.00	1.05	0.04	0.38	1.28	5.76	52.41	-58.55	5.14E-05
Jul	2004	35.00	9.44	0.36	3.23	2.21	7.08	54.16	-55.79	5.14E-05
Aug	2004	35.00	1.57	0.06	0.54	0.88	6.95	54.16	-59.59	5.14E-05
Sep	2004	35.00	23.59	0.9	8.09	2.81	5.5	52.41	-47.21	5.14E-05
Oct	2004	35.00	18.08	0.69	8.20	1.89	3.74	54.16	-49.81	5.14E-05
Nov	2004	35.00	0.00	0	0.00	0.2	2.03	52.41	-54.24	5.14E-05
Dec	2004	35.00	0.00	0	0.00	0.08	1.1	0.00	-1.02	0.00E+00
Jan	2005	35.00	0.00	0	0.00	0.47	0.92	0.00	-0.45	0.00E+00
Feb	2005	35.00	0.00	0	0.00	0.1	1.23	0.00	-1.13	0.00E+00
Mar	2005	35.00	13.10	0.5	4.49	1.68	1.98	0.00	4.19	0.00E+00
Apr	2005	35.00	27.52	1.05	13.63	2.79	3.3	52.41	-39.35	5.14E-05
May	2005	35.00	16.25	0.62	5.57	2.86	4.4	52.41	-46.58	5.14E-05
Jun	2005	35.00	112.70	4.3	38.84	6.24	5.76	52.41	-13.29	5.14E-05
Jul	2005	35.00	31.71	1.21	10.87	2.07	7.08	52.41	-46.55	5.14E-05
Aug	2005	35.00	22.28	0.85	7.84	1.81	6.95	52.41	-49.81	5.14E-05
Sep	2005	35.00	0.00	0	0.00	0.37	5.5	52.41	-57.54	5.14E-05
Oct	2005	35.00	13.83	0.52	4.67	1.49	3.74	52.41	-49.99	5.14E-05
Nov	2005	35.00	0.00	0	0.00	0.04	2.03	52.41	-54.40	5.14E-05
Dec	2005	35.00	0.00	0	0.00	0.4	1.1	0.00	-0.70	0.00E+00
Jan	2006	35.00	0.00	0	0.00	0.28	0.92	0.00	-0.66	0.00E+00
Feb	2006	35.00	0.00	0	0.00	0.51	1.23	0.00	-0.72	0.00E+00
Mar	2006	35.00	0.00	0	0.00	0.93	1.98	0.00	-1.05	0.00E+00
Apr	2006	35.00	6.03	0.23	2.07	1.35	3.3	52.41	-52.29	5.14E-05
May	2006	35.00	18.08	0.69	6.20	2.11	4.4	52.41	-48.50	5.14E-05
Jun	2006	35.00	8.29	0.24	2.18	1.35	5.76	52.41	-54.68	5.14E-05
Jul	2006	35.00	51.63	1.97	17.70	3.15	7.08	52.41	-38.84	5.14E-05
Aug	2006	35.00	8.44	0.38	3.23	1.34	6.95	52.41	-54.79	5.14E-05
Sep	2006	35.00	8.12	0.31	2.79	0.91	5.5	52.41	-54.22	5.14E-05
Oct	2006	35.00	1.57	0.06	0.54	0.69	3.74	52.41	-54.92	5.14E-05
Nov	2006	35.00	0.00	0	0.00	0.28	2.03	52.41	-54.18	5.14E-05
Dec	2006	35.00	0.00	0	0.00	0.38	1.1	0.00	-0.74	0.00E+00
Jan	2007	35.00	0.00	0	0.00	0.14	0.92	0.00	-0.78	0.00E+00
Feb	2007	35.00	0.00	0	0.00	0.44	1.23	0.00	-0.79	0.00E+00
Mar	2007	35.00	28.21	1	8.99	1.74	1.98	0.00	NOT A TYPEN	0.00E+00
Apr	2007	35.00	2.88	0.11	9.73	1.09	3.3	52.41	-44.89	5.14E-05
May	2007	35.00	16.99	0.81	5.48	1.72	4.4	52.41	-49.61	5.14E-05
Jun	2007	35.00	1.31	0.05	0.45	0.67	5.76	52.41	-57.05	5.14E-05
Jul	2007	35.00	55.58	2.12	19.05	3.5	7.08	52.41	-36.84	5.14E-05
Aug	2007	35.00	16.99	0.81	5.48	2.05	6.95	52.41	-51.83	5.14E-05
Sep	2007	35.00	1.31	0.05	0.45	0.83	5.5	52.41	-56.63	5.14E-05
Oct	2007	35.00	13.10	0.5	4.49	1.72	3.74	52.41	-48.94	5.14E-05
Nov	2007	35.00	0.00	0	0.00	0.08	2.03	52.41	-54.38	5.14E-05
Dec	2007	35.00	0.00	0	0.00	0.37	1.1	0.00	-0.73	0.00E+00
Jan	1980	35.00	0.00	0	0.00	0.89	0.92	0.00	-0.33	0.00E+00
Feb	1980	35.00	0.00	0	0.00	0.77	1.28	0.00	-0.51	0.00E+00

2002-1988 Estimated Monthly Water Balance for Evap Pond--Dewey Site (XD Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip. (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Dewey Perm. (cm/sec)
Mar	1980	35.00	0.00	0	0.00	2.82	1.98	0.00	0.84	0.00E+00
Apr	1980	35.00	21.49	0.82	8.21	1.72	3.3	52.41	-45.78	5.14E-05
May	1980	35.00	30.14	1.15	10.33	3.33	4.4	52.41	-43.15	5.14E-05
Jun	1980	35.00	28.31	1.08	9.70	1.89	5.78	52.41	-48.48	5.14E-05
Jul	1980	35.00	3.41	0.13	1.17	0.97	7.08	52.41	-57.35	5.14E-05
Aug	1980	35.00	14.94	0.57	5.12	1.85	6.95	52.41	-52.39	5.14E-05
Sep	1980	35.00	2.10	0.08	0.72	0.39	5.5	52.41	-58.80	5.14E-05
Oct	1980	35.00	5.77	0.22	1.98	1.01	3.74	52.41	-53.16	5.14E-05
Nov	1980	35.00	3.67	0.14	1.28	0.82	2.03	52.41	-52.58	5.14E-05
Dec	1980	35.00	0.00	0	0.00	0.68	1.1	0.00	-0.42	0.00E+00
Jan	1981	35.00	0.00	0	0.00	0.08	0.92	0.00	-0.84	0.00E+00
Feb	1981	35.00	0.00	0	0.00	0.27	1.23	0.00	-0.98	0.00E+00
Mar	1981	35.00	5.77	0.22	1.98	0.68	1.98	0.00	0.68	0.00E+00
Apr	1981	35.00	1.31	0.05	1.11	0.74	3.3	52.41	-53.87	5.14E-05
May	1981	35.00	27.28	1.04	9.35	3.22	4.4	52.41	-44.25	5.14E-05
Jun	1981	35.00	22.28	0.85	7.64	1.73	5.78	52.41	-48.80	5.14E-05
Jul	1981	35.00	23.33	0.89	8.00	2.54	7.08	52.41	-48.85	5.14E-05
Aug	1981	35.00	6.65	0.25	2.25	1	6.95	52.41	-56.12	5.14E-05
Sep	1981	35.00	0.00	0	0.00	0.16	5.5	52.41	-57.75	5.14E-05
Oct	1981	35.00	34.60	1.32	11.86	2.82	3.74	52.41	-41.37	5.14E-05
Nov	1981	35.00	0.00	0	0.00	0.04	2.03	52.41	-54.40	5.14E-05
Dec	1981	35.00	0.00	0	0.00	0.1	1.1	0.00	-1.00	0.00E+00
Jan	1982	35.00	0.00	0	0.00	0.18	0.92	0.00	-0.74	0.00E+00
Feb	1982	35.00	0.00	0	0.00	0.05	1.23	0.00	-1.18	0.00E+00
Mar	1982	35.00	0.00	0	0.00	1.34	1.98	0.00	-0.64	0.00E+00
Apr	1982	35.00	2.38	0.09	0.81	1	3.3	52.41	-53.90	5.14E-05
May	1982	35.00	43.24	1.65	14.83	4.18	4.4	52.41	-37.81	5.14E-05
Jun	1982	35.00	72.80	2.77	24.89	4.45	5.78	52.41	-28.83	5.14E-05
Jul	1982	35.00	18.86	0.75	8.74	2.2	7.08	52.41	-50.55	5.14E-05
Aug	1982	35.00	42.98	1.84	14.74	3.29	6.95	52.41	-41.33	5.14E-05
Sep	1982	35.00	17.58	0.67	6.02	2.42	5.5	52.41	-49.47	5.14E-05
Oct	1982	35.00	9.44	0.38	3.23	1.27	3.74	52.41	-51.85	5.14E-05
Nov	1982	35.00	12.58	0.48	4.31	1.3	2.03	52.41	-48.83	5.14E-05
Dec	1982	35.00	0.00	0	0.00	0.2	1.1	0.00	-0.90	0.00E+00
Jan	1983	35.00	0.00	0	0.00	0.22	0.92	0.00	-0.70	0.00E+00
Feb	1983	35.00	0.00	0	0.00	0.21	1.23	0.00	-1.02	0.00E+00
Mar	1983	35.00	4.48	0.17	1.53	0.89	1.98	0.00	0.44	0.00E+00
Apr	1983	35.00	1.05	0.04	0.80	0.75	3.3	52.41	-54.16	5.14E-05
May	1983	35.00	11.27	0.43	3.66	1.95	4.4	52.41	-51.00	5.14E-05
Jun	1983	35.00	52.68	2.01	18.08	4.25	5.78	52.41	-35.88	5.14E-05
Jul	1983	35.00	6.29	0.24	2.16	1.05	7.08	52.41	-58.28	5.14E-05
Aug	1983	35.00	46.65	1.78	15.99	3.31	6.95	52.41	-40.08	5.14E-05
Sep	1983	35.00	0.28	0.01	0.09	0.28	5.5	52.41	-57.54	5.14E-05
Oct	1983	35.00	4.48	0.17	1.53	1.6	3.74	52.41	-53.02	5.14E-05
Nov	1983	35.00	12.58	0.48	4.31	1.6	2.03	52.41	-48.53	5.14E-05
Dec	1983	35.00	0.00	0	0.00	0.05	1.1	0.00	-1.05	0.00E+00
Jan	1984	35.00	0.00	0	0.00	1.37	0.92	0.00	0.45	0.00E+00
Feb	1984	35.00	0.00	0	0.45	0.28	1.28	0.00	-0.55	0.00E+00
Mar	1984	35.00	0.28	0.01	0.09	0.8	1.98	0.00	-1.08	0.00E+00
Apr	1984	35.00	33.28	1.27	11.41	3.59	3.3	52.41	-40.71	5.14E-05
May	1984	35.00	29.82	1.13	10.15	2.93	4.4	52.41	-43.73	5.14E-05
Jun	1984	35.00	21.49	0.82	7.37	1.91	5.78	52.41	-48.89	5.14E-05
Jul	1984	35.00	17.04	0.65	8.84	2.38	7.08	52.41	-51.27	5.14E-05
Aug	1984	35.00	16.25	0.62	5.57	1.88	6.95	52.41	-52.11	5.14E-05
Sep	1984	35.00	0.00	0	0.00	0.4	5.5	52.41	-57.51	5.14E-05
Oct	1984	35.00	0.52	0.02	0.18	0.63	3.74	52.41	-55.34	5.14E-05
Nov	1984	35.00	4.48	0.17	1.53	0.87	2.03	52.41	-52.34	5.14E-05
Dec	1984	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1985	35.00	0.00	0	0.00	0.17	0.92	0.00	-0.75	0.00E+00
Feb	1985	35.00	0.00	0	0.00	0.57	1.23	0.00	-0.68	0.00E+00
Mar	1985	35.00	0.00	0	0.00	0.77	1.98	0.00	-1.21	0.00E+00
Apr	1985	35.00	47.44	1.81	16.28	3.15	3.3	52.41	-38.30	5.14E-05
May	1985	35.00	2.82	0.1	0.90	1.05	4.4	52.41	-54.86	5.14E-05
Jun	1985	35.00	1.67	0.08	0.54	1.03	5.78	52.41	-56.60	5.14E-05
Jul	1985	35.00	2.36	0.09	0.81	1.2	7.08	52.41	-57.48	5.14E-05
Aug	1985	35.00	0.00	0	0.00	0.5	6.95	52.41	-58.88	5.14E-05
Sep	1985	35.00	12.58	0.48	4.31	1.99	5.5	52.41	-51.81	5.14E-05
Oct	1985	35.00	1.05	0.04	0.38	0.88	3.74	52.41	-55.11	5.14E-05
Nov	1985	35.00	0.00	0	0.00	0.22	2.03	52.41	-54.22	5.14E-05
Dec	1985	35.00	0.00	0	0.00	0.41	1.1	0.00	-0.69	0.00E+00
Jan	1986	35.00	0.00	0	0.00	1.83	0.92	0.00	0.71	0.00E+00
Feb	1986	35.00	0.00	0	0.71	1.08	1.23	0.00	0.54	0.00E+00
Mar	1986	35.00	0.00	0	0.54	0.52	1.98	0.00	-0.92	0.00E+00
Apr	1986	35.00	32.24	1.23	11.05	3.27	3.3	52.41	-41.39	5.14E-05

2002-1988 Estimated Monthly Water Balance for Evap Pond--Dewey Site (XD Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip. (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Dewey Perm. (cm/sec)
May	1988	35.00	8.39	0.32	2.88	1.07	4.4	52.41	-52.87	5.14E-05
Jun	1988	35.00	78.00	2.9	28.08	4.87	5.78	52.41	-27.24	5.14E-05
Jul	1988	35.00	8.91	0.34	3.08	1.83	7.08	52.41	-54.81	5.14E-05
Aug	1988	35.00	8.81	0.28	2.34	1.19	6.95	52.41	-55.84	5.14E-05
Sep	1988	35.00	38.79	1.48	13.30	3.52	5.5	52.41	-41.09	5.14E-05
Oct	1988	35.00	55.30	2.11	18.86	3.88	3.74	52.41	-33.31	5.14E-05
Nov	1988	35.00	2.10	0.08	0.72	0.86	2.03	52.41	-62.88	5.14E-05
Dec	1988	35.00	0.00	0	0.00	0.09	1.1	0.00	-1.01	0.00E+00
Jan	1987	35.00	0.00	0	0.00	0.13	0.82	0.00	-0.79	0.00E+00
Feb	1987	35.00	0.00	0	0.00	0.87	1.23	0.00	-0.38	0.00E+00
Mar	1987	35.00	3.16	0.12	1.08	2.22	1.98	0.00	1.32	0.00E+00
Apr	1987	35.00	4.98	0.19	3.03	0.89	3.3	52.41	-52.00	5.14E-05
May	1987	35.00	28.73	1.02	9.17	2.97	4.4	52.41	-44.88	5.14E-05
Jun	1987	35.00	0.79	0.03	0.27	0.59	5.78	52.41	-67.31	5.14E-05
Jul	1987	35.00	15.73	0.6	5.39	1.71	7.08	52.41	-52.39	5.14E-05
Aug	1987	35.00	2.38	0.09	0.81	1.04	6.95	52.41	-57.51	5.14E-05
Sep	1987	35.00	2.82	0.1	0.90	0.78	5.5	52.41	-58.25	5.14E-05
Oct	1987	35.00	0.26	0.01	0.09	0.42	3.74	52.41	-55.84	5.14E-05
Nov	1987	35.00	5.50	0.21	1.89	0.71	2.03	52.41	-51.84	5.14E-05
Dec	1987	35.00	0.28	0.01	0.09	0.25	1.1	0.00	-0.78	0.00E+00
Jan	1988	35.00	0.00	0	0.00	0.63	0.92	0.00	-0.29	0.00E+00
Feb	1988	35.00	0.00	0	0.00	0.21	1.28	0.00	-1.07	0.00E+00
Mar	1988	35.00	0.00	0	0.00	1.17	1.98	0.00	-0.81	0.00E+00
Apr	1988	35.00	1.57	0.06	0.54	0.83	3.3	52.41	-54.54	5.14E-05
May	1988	35.00	20.18	0.77	6.92	2.64	4.4	52.41	-47.25	5.14E-05
Jun	1988	35.00	41.93	1.6	14.38	2.78	5.78	52.41	-41.01	5.14E-05
Jul	1988	35.00	28.57	1.09	9.79	2.18	7.08	52.41	-47.52	5.14E-05
Aug	1988	35.00	27.78	1.06	9.52	1.87	6.95	52.41	-47.97	5.14E-05
Sep	1988	35.00	1.05	0.04	0.36	0.84	5.5	52.41	-58.71	5.14E-05
Oct	1988	35.00	0.00	0	0.00	0.09	3.74	52.41	-58.08	5.14E-05
Nov	1988	35.00	0.26	0.01	0.09	0.52	2.03	52.41	-53.83	5.14E-05
Dec	1988	35.00	0.00	0	0.00	0.23	1.1	0.00	-0.87	0.00E+00
				4.78		15.62	44.00		8.75	

Assumes seepage is 0.00 for January, February, March and December due to frozen soils
 Trial is for bare soil, 314.5 acres irrigated area

Permeability value is geometric mean of three available permeability values from Burdock test pits, see
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Monthly Runoff Water Balance
Burdock Area

1984-1998 Estimated Monthly Water Balance for Evap Pond--Burdock Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip. (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Burdock Perm. (cm/sec)
Jan	1984	35.00	0.00	0	0.00	0.13	0.92	0.00	-0.79	0.00E+00
Feb	1984	35.00	0.00	0	0.00	0.28	1.23	0.00	-0.95	0.00E+00
Mar	1984	35.00	0.28	0.01	0.08	0.8	1.98	0.00	-1.09	0.00E+00
Apr	1984	35.00	28.04	1.07	9.81	3.69	3.3	8.11	1.79	7.95E-08
May	1984	35.00	24.60	0.85	10.33	2.93	4.4	8.38	0.48	7.95E-08
Jun	1984	35.00	5.24	0.2	2.27	1.91	5.78	8.11	-9.89	7.95E-08
Jul	1984	35.00	9.70	0.37	3.32	2.38	7.08	8.38	-9.78	7.95E-08
Aug	1984	35.00	8.88	0.33	2.87	1.88	6.95	8.38	-10.89	7.95E-08
Sep	1984	35.00	0.00	0	0.00	0.4	5.5	8.11	-13.21	7.95E-08
Oct	1984	35.00	0.52	0.02	0.18	0.63	3.74	8.38	-11.31	7.95E-08
Nov	1984	35.00	4.48	0.17	1.53	0.57	2.03	8.11	-8.05	7.95E-08
Dec	1984	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1985	35.00	0.00	0	0.00	0.17	0.92	0.00	-0.75	0.00E+00
Feb	1985	35.00	0.00	0	0.00	0.67	1.23	0.00	-0.66	0.00E+00
Mar	1985	35.00	0.00	0	0.00	0.77	1.98	0.00	-1.21	0.00E+00
Apr	1985	35.00	47.44	1.81	16.28	3.15	3.3	8.11	8.00	7.95E-08
May	1985	35.00	2.62	0.1	8.80	1.05	4.4	8.38	-2.83	7.95E-08
Jun	1985	35.00	1.57	0.08	0.64	1.03	5.78	8.11	-12.30	7.95E-08
Jul	1985	35.00	2.38	0.09	0.81	1.2	7.08	8.38	-13.45	7.95E-08
Aug	1985	35.00	0.00	0	0.00	0.5	8.95	8.38	-14.83	7.95E-08
Sep	1985	35.00	12.32	0.47	4.22	1.99	5.5	8.11	-7.40	7.95E-08
Oct	1985	35.00	1.05	0.04	0.36	0.88	3.74	8.38	-11.08	7.95E-08
Nov	1985	35.00	0.00	0	0.00	0.22	2.03	8.11	-9.92	7.95E-08
Dec	1985	35.00	0.00	0	0.00	0.41	1.1	0.00	-0.69	0.00E+00
Jan	1986	35.00	0.00	0	0.00	1.83	0.92	0.00	0.71	0.00E+00
Feb	1986	35.00	0.00	0	0.71	1.08	1.28	0.00	0.49	0.00E+00
Mar	1986	35.00	0.00	0	0.49	0.52	1.98	0.00	-0.97	0.00E+00
Apr	1986	35.00	32.24	1.23	11.05	3.27	3.3	8.11	2.91	7.95E-08
May	1986	35.00	8.39	0.32	5.79	1.07	4.4	8.38	-5.93	7.95E-08
Jun	1986	35.00	68.40	2.81	23.45	4.87	5.78	8.11	14.45	7.95E-08
Jul	1986	35.00	5.24	0.2	16.25	1.83	7.08	8.38	2.41	7.95E-08
Aug	1986	35.00	6.81	0.28	4.75	1.19	6.95	8.38	-9.39	7.95E-08
Sep	1986	35.00	18.08	0.69	6.20	3.52	5.5	8.11	-3.89	7.95E-08
Oct	1986	35.00	50.84	1.94	17.43	3.88	3.74	8.38	9.19	7.95E-08
Nov	1986	35.00	2.10	0.08	8.91	0.88	2.03	8.11	0.83	7.95E-08
Dec	1986	35.00	0.00	0	0.83	0.09	1.1	0.00	-0.38	0.00E+00
Jan	1987	35.00	0.00	0	0.00	0.13	0.92	0.00	-0.79	0.00E+00
Feb	1987	35.00	0.00	0	0.00	0.87	1.23	0.00	-0.38	0.00E+00
Mar	1987	35.00	3.15	0.12	1.08	2.22	1.98	0.00	1.32	0.00E+00
Apr	1987	35.00	4.98	0.19	3.03	0.69	3.3	8.11	-7.70	7.95E-08
May	1987	35.00	25.16	0.98	8.63	2.97	4.4	8.11	-0.92	7.95E-08
Jun	1987	35.00	0.79	0.03	0.27	0.59	5.78	8.11	-13.01	7.95E-08
Jul	1987	35.00	15.73	0.6	5.39	1.71	7.08	8.11	-8.09	7.95E-08
Aug	1987	35.00	2.38	0.09	0.81	1.04	6.95	8.11	-13.21	7.95E-08
Sep	1987	35.00	1.83	0.07	0.83	0.78	5.5	8.11	-12.22	7.95E-08
Oct	1987	35.00	0.28	0.01	0.08	0.42	3.74	8.11	-11.34	7.95E-08
Nov	1987	35.00	5.50	0.21	1.89	0.71	2.03	8.11	-7.55	7.95E-08
Dec	1987	35.00	0.28	0.01	0.08	0.25	1.1	0.00	-0.76	0.00E+00
Jan	1988	35.00	0.00	0	0.00	0.63	0.92	0.00	-0.29	0.00E+00
Feb	1988	35.00	0.00	0	0.00	0.21	1.23	0.00	-1.02	0.00E+00
Mar	1988	35.00	0.00	0	0.00	1.17	1.98	0.00	-0.81	0.00E+00
Apr	1988	35.00	1.57	0.08	0.64	0.63	3.3	8.11	-10.24	7.95E-08
May	1988	35.00	20.18	0.77	6.92	2.84	4.4	8.11	-2.95	7.95E-08
Jun	1988	35.00	40.38	1.54	13.84	2.78	5.78	8.11	2.75	7.95E-08
Jul	1988	35.00	23.33	0.89	10.74	2.18	7.08	8.11	-2.27	7.95E-08
Aug	1988	35.00	25.42	0.97	8.72	1.87	6.95	8.11	-4.48	7.95E-08
Sep	1988	35.00	1.05	0.04	0.36	0.84	5.5	8.11	-12.41	7.95E-08
Oct	1988	35.00	0.00	0	0.00	0.09	3.74	8.11	-11.78	7.95E-08
Nov	1988	35.00	0.28	0.01	0.09	0.52	2.03	8.11	-9.53	7.95E-08
Dec	1988	35.00	0.00	0	0.00	0.23	1.1	0.00	-0.87	0.00E+00
Jan	1989	35.00	0.00	0	0.00	0.09	0.92	0.00	-0.83	0.00E+00
Feb	1989	35.00	0.00	0	0.00	0.8	1.23	0.00	-0.63	0.00E+00
Mar	1989	35.00	0.52	0.02	0.18	1.14	1.98	0.00	-0.66	0.00E+00
Apr	1989	35.00	10.76	0.41	3.68	1.67	3.3	8.11	-8.08	7.95E-08
May	1989	35.00	3.15	0.12	1.08	1.41	4.4	8.11	-10.02	7.95E-08
Jun	1989	35.00	2.10	0.08	0.72	1.2	5.78	8.11	-11.95	7.95E-08
Jul	1989	35.00	19.13	0.73	6.56	2.21	7.08	8.11	-8.42	7.95E-08
Aug	1989	35.00	14.41	0.65	4.94	1.48	6.95	8.11	-8.66	7.95E-08
Sep	1989	35.00	55.56	2.12	19.05	3.94	5.5	8.11	9.38	7.95E-08
Oct	1989	35.00	2.88	0.11	10.37	1.07	3.74	8.11	-0.42	7.95E-08
Nov	1989	35.00	0.00	0	0.00	0.23	2.03	8.11	-9.91	7.95E-08
Dec	1989	35.00	0.00	0	0.00	0.86	1.1	0.00	-0.54	0.00E+00
Jan	1990	35.00	0.00	0	0.00	0.08	0.92	0.00	-0.84	0.00E+00
Feb	1990	35.00	0.00	0	0.00	0.4	1.28	0.00	-0.88	0.00E+00

1984-1998 Estimated Monthly Water Balance for Evap Pond-Burdock Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip. (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Burdock Perm. (cm/sec)
Mar	1990	35.00	0.79	0.03	0.27	1.17	1.98	0.00	-0.54	0.00E+00
Apr	1990	35.00	11.01	0.42	3.77	2.31	3.3	8.11	-5.33	7.95E-08
May	1990	35.00	61.59	2.35	21.12	4.45	4.4	8.11	13.05	7.95E-08
Jun	1990	35.00	3.15	0.12	14.13	1.22	5.78	8.11	1.48	7.95E-08
Jul	1990	35.00	46.91	1.79	17.58	3.84	7.08	8.11	6.21	7.95E-08
Aug	1990	35.00	4.98	0.19	7.92	0.88	6.95	8.11	-6.28	7.95E-08
Sep	1990	35.00	35.12	1.34	12.04	2.48	5.5	8.11	0.91	7.95E-08
Oct	1990	35.00	1.83	0.07	1.54	0.89	3.74	8.11	-9.43	7.95E-08
Nov	1990	35.00	6.81	0.28	2.34	1.12	2.03	8.11	-8.69	7.95E-08
Dec	1990	35.00	0.79	0.03	0.27	0.32	1.1	0.00	-0.51	0.00E+00
Jan	1991	35.00	0.00	0	0.00	0.15	0.92	0.00	-0.77	0.00E+00
Feb	1991	35.00	0.00	0	0.00	0.9	1.23	0.00	-0.33	0.00E+00
Mar	1991	35.00	0.00	0	0.00	0.35	1.98	0.00	-1.63	0.00E+00
Apr	1991	35.00	4.48	0.17	1.53	1.58	3.3	8.11	-8.31	7.95E-08
May	1991	35.00	63.42	2.42	21.75	4.91	4.4	8.11	14.14	7.95E-08
Jun	1991	35.00	33.28	1.27	25.55	3.18	5.78	8.11	14.84	7.95E-08
Jul	1991	35.00	0.28	0.01	14.93	0.36	7.08	8.11	0.10	7.95E-08
Aug	1991	35.00	13.89	0.53	4.86	1.52	6.95	8.11	-8.68	7.95E-08
Sep	1991	35.00	0.00	0	0.00	0.29	5.5	8.11	-13.32	7.95E-08
Oct	1991	35.00	4.72	0.18	1.82	0.95	3.74	8.11	-9.29	7.95E-08
Nov	1991	35.00	0.26	0.01	0.09	0.51	2.03	8.11	-9.54	7.95E-08
Dec	1991	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1992	35.00	0.00	0	0.00	0.32	0.92	0.00	-0.60	0.00E+00
Feb	1992	35.00	1.83	0.07	0.63	0.51	1.23	0.00	-0.09	0.00E+00
Mar	1992	35.00	5.77	0.22	1.98	1.07	1.98	0.00	1.07	0.00E+00
Apr	1992	35.00	0.78	0.03	1.34	0.66	3.3	8.11	-9.42	7.95E-08
May	1992	35.00	30.66	1.17	10.61	2.78	4.4	8.11	0.78	7.95E-08
Jun	1992	35.00	11.27	0.43	4.82	1.88	5.78	8.11	-7.37	7.95E-08
Jul	1992	35.00	20.18	0.77	8.92	3.92	7.08	8.11	-4.35	7.95E-08
Aug	1992	35.00	8.39	0.32	2.88	1.74	6.95	8.11	-10.46	7.95E-08
Sep	1992	35.00	0.00	0	0.00	0.08	5.5	8.11	-13.53	7.95E-08
Oct	1992	35.00	1.57	0.06	0.54	0.61	3.74	8.11	-10.70	7.95E-08
Nov	1992	35.00	0.00	0	0.00	0.2	2.03	8.11	-9.94	7.95E-08
Dec	1992	35.00	0.00	0	0.00	0.33	1.1	0.00	-0.77	0.00E+00
Jan	1993	35.00	0.00	0	0.00	0.26	0.92	0.00	-0.66	0.00E+00
Feb	1993	35.00	0.00	0	0.00	0.13	1.23	0.00	-1.10	0.00E+00
Mar	1993	35.00	7.60	0.29	2.81	3.58	1.98	0.00	4.21	0.00E+00
Apr	1993	35.00	9.17	0.35	7.35	1.71	3.3	8.11	-2.35	7.95E-08
May	1993	35.00	13.37	0.51	4.58	1.98	4.4	8.11	-5.95	7.95E-08
Jun	1993	35.00	98.59	3.8	34.15	6.14	5.78	8.11	26.41	7.95E-08
Jul	1993	35.00	22.54	0.86	34.14	2.67	7.08	8.11	21.62	7.95E-08
Aug	1993	35.00	12.58	0.48	25.93	1.82	6.95	8.11	12.69	7.95E-08
Sep	1993	35.00	2.10	0.08	13.41	1	5.5	8.11	0.79	7.95E-08
Oct	1993	35.00	12.58	0.48	5.11	1.48	3.74	8.11	-5.27	7.95E-08
Nov	1993	35.00	0.00	0	0.00	0.72	2.03	8.11	-9.42	7.95E-08
Dec	1993	35.00	0.00	0	0.00	0.82	1.1	0.00	-0.28	0.00E+00
Jan	1994	35.00	0.00	0	0.00	0.6	0.92	0.00	-0.32	0.00E+00
Feb	1994	35.00	0.00	0	0.00	0.38	1.28	0.00	-0.92	0.00E+00
Mar	1994	35.00	0.00	0	0.00	0.73	1.98	0.00	-1.25	0.00E+00
Apr	1994	35.00	9.98	0.38	3.41	1.62	3.3	8.11	-6.38	7.95E-08
May	1994	35.00	11.53	0.44	3.85	1.47	4.4	8.11	-7.09	7.95E-08
Jun	1994	35.00	6.29	0.24	2.16	1.22	5.78	8.11	-10.50	7.95E-08
Jul	1994	35.00	12.08	0.48	4.13	2.04	7.08	8.11	-9.02	7.95E-08
Aug	1994	35.00	1.05	0.04	0.38	0.45	6.95	8.11	-14.25	7.95E-08
Sep	1994	35.00	0.00	0	0.00	0.32	5.5	8.11	-13.29	7.95E-08
Oct	1994	35.00	12.84	0.49	4.40	2.19	3.74	8.11	-5.26	7.95E-08
Nov	1994	35.00	0.00	0	0.00	0.3	2.03	8.11	-9.84	7.95E-08
Dec	1994	35.00	0.00	0	0.00	0.71	1.1	0.00	-0.39	0.00E+00
Jan	1995	35.00	0.00	0	0.00	0.52	0.92	0.00	-0.40	0.00E+00
Feb	1995	35.00	0.00	0	0.00	0.7	1.23	0.00	-0.53	0.00E+00
Mar	1995	35.00	0.00	0	0.00	0.63	1.98	0.00	-1.35	0.00E+00
Apr	1995	35.00	1.31	0.05	0.45	1.38	3.3	8.11	-9.60	7.95E-08
May	1995	35.00	41.41	1.58	14.20	4.42	4.4	8.11	6.10	7.95E-08
Jun	1995	35.00	24.84	0.94	14.55	3.09	5.78	8.11	3.77	7.95E-08
Jul	1995	35.00	0.79	0.03	4.04	1.07	7.08	8.11	-10.08	7.95E-08
Aug	1995	35.00	0.26	0.01	0.09	0.55	6.95	8.11	-14.42	7.95E-08
Sep	1995	35.00	49.80	1.9	17.07	3.61	5.5	8.11	7.07	7.95E-08
Oct	1995	35.00	5.60	0.21	8.98	1.43	3.74	8.11	-1.47	7.95E-08
Nov	1995	35.00	2.38	0.09	0.81	0.81	2.03	8.11	-8.52	7.95E-08
Dec	1995	35.00	0.00	0	0.00	0.13	1.1	0.00	-0.97	0.00E+00
Jan	1996	35.00	0.00	0	0.00	0.35	0.92	0.00	-0.67	0.00E+00
Feb	1996	35.00	0.00	0	0.00	0.24	1.23	0.00	-0.99	0.00E+00
Mar	1996	35.00	0.00	0	0.00	0.92	1.98	0.00	-1.08	0.00E+00
Apr	1996	35.00	26.83	1.1	9.88	3	3.3	8.11	1.47	7.95E-08

1984-1998 Estimated Monthly Water Balance for Evap Pond--Burdock Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip. (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Burdock Perm. (cm/sec)
May	1996	35.00	41.41	1.58	15.87	3.89	4.4	8.11	8.85	7.95E-06
Jun	1996	35.00	9.17	0.35	9.89	1.85	5.78	8.11	-2.03	7.95E-06
Jul	1996	35.00	0.52	0.02	0.18	0.55	7.08	8.11	-14.46	7.95E-06
Aug	1996	35.00	32.78	1.25	11.23	2.72	8.95	8.11	-1.11	7.95E-06
Sep	1996	35.00	3.41	0.13	1.17	1.37	5.5	8.11	-11.07	7.95E-06
Oct	1996	35.00	7.34	0.28	2.52	1.79	3.74	8.11	-7.55	7.95E-06
Nov	1996	35.00	0.00	0	0.00	0.5	2.03	8.11	-8.64	7.95E-06
Dec	1996	35.00	0.00	0	0.00	0.62	1.1	0.00	-0.48	0.00E+00
Jan	1997	35.00	0.00	0	0.00	0.82	0.92	0.00	-0.30	0.00E+00
Feb	1997	35.00	0.00	0	0.00	0.48	1.23	0.00	-0.75	0.00E+00
Mar	1997	35.00	0.00	0	0.00	0.32	1.98	0.00	-1.88	0.00E+00
Apr	1997	35.00	15.73	0.6	5.39	2.52	3.3	8.11	-3.50	7.95E-06
May	1997	35.00	27.28	1.04	9.35	2.84	4.4	8.11	-0.33	7.95E-06
Jun	1997	35.00	22.80	0.87	7.82	3.17	5.78	8.11	-2.89	7.95E-06
Jul	1997	35.00	55.30	2.11	18.98	4.61	7.08	8.11	8.38	7.95E-06
Aug	1997	35.00	5.24	0.2	10.17	1.05	6.95	8.11	-3.84	7.95E-06
Sep	1997	35.00	1.83	0.07	0.83	0.73	5.5	8.11	-12.25	7.95E-06
Oct	1997	35.00	1.05	0.04	0.36	0.7	3.74	8.11	-10.78	7.95E-06
Nov	1997	35.00	2.10	0.08	0.72	0.43	2.03	8.11	-8.99	7.95E-06
Dec	1997	35.00	0.00	0	0.00	0.28	1.1	0.00	-0.84	0.00E+00
Jan	1998	35.00	0.00	0	0.00	0.52	0.92	0.00	-0.40	0.00E+00
Feb	1998	35.00	2.88	0.11	0.99	0.78	1.28	0.00	0.49	0.00E+00
Mar	1998	35.00	18.87	0.72	6.96	2.02	1.98	0.00	7.00	0.00E+00
Apr	1998	35.00	0.00	0	7.00	0.27	3.3	8.11	-4.14	7.95E-06
May	1998	35.00	30.68	1.17	10.51	3.58	4.4	8.11	1.58	7.95E-06
Jun	1998	35.00	44.55	1.7	18.88	3.36	5.78	8.11	6.34	7.95E-06
Jul	1998	35.00	38.00	1.45	19.37	3.38	7.08	8.11	7.56	7.95E-06
Aug	1998	35.00	15.20	0.58	12.77	2.36	6.95	8.11	0.07	7.95E-06
Sep	1998	35.00	32.78	1.25	11.30	2.08	5.5	8.11	-0.23	7.95E-06
Oct	1998	35.00	41.15	1.57	14.11	4.18	3.74	8.11	8.41	7.95E-06
Nov	1998	35.00	5.24	0.2	8.21	1.42	2.03	8.11	-0.51	7.95E-06
Dec	1998	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
				4.88		16.88	44.00		26.41	

Assumes seepage is 0.00 for January, February, March and December due to frozen soils
 Trial is for bare soil, 314.5 acres irrigated area

Permeability value is geometric mean of three available permeability values from Burdock test pits, see
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1985-1999 Estimated Monthly Water Balance for Evap Pond--Burdock Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip. (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Burdock Perm. (cm/sec)
Jan	1985	35.00	0.00	0	0.00	0.17	0.92	0.00	-0.75	0.00E+00
Feb	1985	35.00	0.00	0	0.00	0.87	1.23	0.00	-0.68	0.00E+00
Mar	1985	35.00	0.00	0	0.00	0.77	1.98	0.00	-1.21	0.00E+00
Apr	1985	35.00	47.44	1.81	18.28	3.15	3.3	8.11	8.00	7.95E-06
May	1985	35.00	2.62	0.1	8.80	1.05	4.4	8.38	-2.83	7.95E-06
Jun	1985	35.00	1.57	0.06	0.64	1.03	5.76	8.11	-12.30	7.95E-06
Jul	1985	35.00	2.38	0.09	0.81	1.2	7.08	8.38	-13.45	7.95E-06
Aug	1985	35.00	0.00	0	0.00	0.5	6.95	8.38	-14.83	7.95E-06
Sep	1985	35.00	12.32	0.47	4.22	1.99	5.5	8.11	-7.40	7.95E-06
Oct	1985	35.00	1.05	0.04	0.36	0.88	3.74	8.38	-11.08	7.95E-06
Nov	1985	35.00	0.00	0	0.00	0.22	2.03	8.11	-9.92	7.95E-06
Dec	1985	35.00	0.00	0	0.00	0.41	1.1	0.00	-0.89	0.00E+00
Jan	1986	35.00	0.00	0	0.00	1.83	0.92	0.00	0.71	0.00E+00
Feb	1986	35.00	0.00	0	0.71	1.08	1.23	0.00	0.64	0.00E+00
Mar	1986	35.00	0.00	0	0.84	0.52	1.98	0.00	-0.92	0.00E+00
Apr	1986	35.00	32.24	1.23	11.06	3.27	3.3	8.11	2.91	7.95E-06
May	1986	35.00	8.39	0.32	5.79	1.07	4.4	8.38	-5.93	7.95E-06
Jun	1986	35.00	65.78	2.51	22.55	4.87	5.76	8.11	13.55	7.95E-06
Jul	1986	35.00	5.24	0.2	15.35	1.83	7.08	8.38	1.52	7.95E-06
Aug	1986	35.00	6.81	0.28	3.85	1.19	6.95	8.38	-10.29	7.95E-06
Sep	1986	35.00	18.08	0.69	8.20	3.62	5.5	8.11	-3.89	7.95E-06
Oct	1986	35.00	49.01	1.87	18.80	3.88	3.74	8.38	8.66	7.95E-06
Nov	1986	35.00	2.10	0.08	9.28	0.88	2.03	8.11	0.00	7.95E-06
Dec	1986	35.00	0.00	0	0.00	0.09	1.1	0.00	-1.01	0.00E+00
Jan	1987	35.00	0.00	0	0.00	0.13	0.92	0.00	-0.79	0.00E+00
Feb	1987	35.00	0.00	0	0.00	0.87	1.28	0.00	-0.41	0.00E+00
Mar	1987	35.00	3.15	0.12	1.08	2.22	1.98	0.00	1.32	0.00E+00
Apr	1987	35.00	4.98	0.19	3.03	0.69	3.3	8.11	-7.70	7.95E-06
May	1987	35.00	25.18	0.96	8.63	2.97	4.4	8.38	-1.19	7.95E-06
Jun	1987	35.00	0.79	0.03	0.27	0.69	5.76	8.11	-13.01	7.95E-06
Jul	1987	35.00	15.73	0.8	5.39	1.71	7.08	8.38	-8.38	7.95E-06
Aug	1987	35.00	2.38	0.09	0.81	1.04	6.95	8.38	-13.48	7.95E-06
Sep	1987	35.00	1.83	0.07	0.83	0.78	5.5	8.11	-12.22	7.95E-06
Oct	1987	35.00	0.28	0.01	0.09	0.42	3.74	8.38	-11.81	7.95E-06
Nov	1987	35.00	5.50	0.21	1.89	0.71	2.03	8.11	-7.56	7.95E-06
Dec	1987	35.00	0.28	0.01	0.09	0.25	1.1	0.00	-0.78	0.00E+00
Jan	1988	35.00	0.00	0	0.00	0.83	0.92	0.00	-0.29	0.00E+00
Feb	1988	35.00	0.00	0	0.00	0.21	1.23	0.00	-1.02	0.00E+00
Mar	1988	35.00	0.00	0	0.00	1.17	1.98	0.00	-0.81	0.00E+00
Apr	1988	35.00	1.57	0.06	0.64	0.83	3.3	8.11	-10.24	7.95E-06
May	1988	35.00	20.18	0.77	6.92	2.84	4.4	8.11	-2.95	7.95E-06
Jun	1988	35.00	40.38	1.54	13.84	2.78	5.76	8.11	7.95E-06	7.95E-06
Jul	1988	35.00	23.33	0.89	10.74	2.18	7.08	8.11	-2.27	7.95E-06
Aug	1988	35.00	25.42	0.97	8.72	1.87	6.95	8.11	-4.48	7.95E-06
Sep	1988	35.00	1.05	0.04	0.36	0.84	5.5	8.11	-12.41	7.95E-06
Oct	1988	35.00	0.00	0	0.00	0.09	3.74	8.11	-11.78	7.95E-06
Nov	1988	35.00	0.28	0.01	0.09	0.62	2.03	8.11	-8.53	7.95E-06
Dec	1988	35.00	0.00	0	0.00	0.23	1.1	0.00	-0.87	0.00E+00
Jan	1989	35.00	0.00	0	0.00	0.09	0.92	0.00	-0.83	0.00E+00
Feb	1989	35.00	0.00	0	0.00	0.8	1.23	0.00	-0.89	0.00E+00
Mar	1989	35.00	0.62	0.02	0.18	1.14	1.98	0.00	-0.68	0.00E+00
Apr	1989	35.00	10.75	0.41	3.88	1.87	3.3	8.11	-6.08	7.95E-06
May	1989	35.00	3.15	0.12	1.08	1.41	4.4	8.11	-10.02	7.95E-06
Jun	1989	35.00	2.10	0.08	0.72	1.2	5.76	8.11	-11.95	7.95E-06
Jul	1989	35.00	19.13	0.73	8.66	2.21	7.08	8.11	-8.42	7.95E-06
Aug	1989	35.00	14.41	0.55	4.94	1.46	6.95	8.11	-8.68	7.95E-06
Sep	1989	35.00	55.58	2.12	19.05	3.94	5.5	8.11	9.38	7.95E-06
Oct	1989	35.00	2.88	0.11	10.37	1.07	3.74	8.11	-0.42	7.95E-06
Nov	1989	35.00	0.00	0	0.00	0.23	2.03	8.11	-8.91	7.95E-06
Dec	1989	35.00	0.00	0	0.00	0.58	1.1	0.00	-0.54	0.00E+00
Jan	1990	35.00	0.00	0	0.00	0.08	0.92	0.00	-0.84	0.00E+00
Feb	1990	35.00	0.00	0	0.00	0.4	1.23	0.00	-0.83	0.00E+00
Mar	1990	35.00	0.79	0.03	0.27	1.17	1.98	0.00	-0.54	0.00E+00
Apr	1990	35.00	11.01	0.42	3.77	2.31	3.3	8.11	-5.33	7.95E-06
May	1990	35.00	61.59	2.35	21.12	4.45	4.4	8.11	13.05	7.95E-06
Jun	1990	35.00	3.15	0.12	14.13	1.22	5.76	8.11	1.48	7.95E-06
Jul	1990	35.00	48.91	1.78	17.58	3.84	7.08	8.11	8.21	7.95E-06
Aug	1990	35.00	4.98	0.19	7.82	0.86	6.95	8.11	-6.28	7.95E-06
Sep	1990	35.00	35.12	1.34	12.04	2.48	5.5	8.11	0.91	7.95E-06
Oct	1990	35.00	1.85	0.07	1.64	0.89	3.74	8.11	-9.43	7.95E-06
Nov	1990	35.00	6.81	0.28	2.34	1.12	2.03	8.11	-8.89	7.95E-06
Dec	1990	35.00	0.79	0.03	0.27	0.32	1.1	0.00	-0.61	0.00E+00
Jan	1991	35.00	0.00	0	0.00	0.15	0.92	0.00	-0.77	0.00E+00
Feb	1991	35.00	0.00	0	0.00	0.9	1.28	0.00	-0.38	0.00E+00

1985-1999 Estimated Monthly Water Balance for Evap Pond--Burdock Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip. (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Burdock Perm. (cm/sec)
Mar	1991	35.00	0.00	0	0.00	0.35	1.98	0.00	-1.63	0.00E+00
Apr	1991	35.00	4.46	0.17	1.63	1.68	3.3	8.11	-8.31	7.95E-08
May	1991	35.00	63.42	2.42	21.75	4.91	4.4	8.11	14.14	7.95E-08
Jun	1991	35.00	33.28	1.27	25.66	3.16	5.76	8.11	14.84	7.95E-08
Jul	1991	35.00	0.26	0.01	14.83	0.38	7.08	8.11	0.10	7.95E-08
Aug	1991	35.00	13.89	0.63	4.88	1.52	6.95	8.11	-8.68	7.95E-08
Sep	1991	35.00	0.00	0	0.00	0.29	5.5	8.11	-13.32	7.95E-08
Oct	1991	35.00	4.72	0.18	1.62	0.95	3.74	8.11	-9.29	7.95E-08
Nov	1991	35.00	0.26	0.01	0.09	0.61	2.03	8.11	-9.64	7.95E-08
Dec	1991	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1992	35.00	0.00	0	0.00	0.32	0.92	0.00	-0.60	0.00E+00
Feb	1992	35.00	1.83	0.07	0.63	0.61	1.23	0.00	-0.09	0.00E+00
Mar	1992	35.00	5.77	0.22	1.98	1.07	1.98	0.00	1.07	0.00E+00
Apr	1992	35.00	0.79	0.03	1.34	0.66	3.3	8.11	-8.42	7.95E-08
May	1992	35.00	30.86	1.17	10.61	2.76	4.4	8.11	0.76	7.95E-08
Jun	1992	35.00	11.27	0.43	4.62	1.86	5.76	8.11	-7.37	7.95E-08
Jul	1992	35.00	20.18	0.77	8.92	3.92	7.08	8.11	-4.35	7.95E-08
Aug	1992	35.00	8.39	0.32	2.88	1.74	6.95	8.11	-10.45	7.95E-08
Sep	1992	35.00	0.00	0	0.00	0.08	5.6	8.11	-13.53	7.95E-08
Oct	1992	35.00	1.57	0.06	0.64	0.61	3.74	8.11	-10.70	7.95E-08
Nov	1992	35.00	0.00	0	0.00	0.2	2.03	8.11	-9.94	7.95E-08
Dec	1992	35.00	0.00	0	0.00	0.33	1.1	0.00	-0.77	0.00E+00
Jan	1993	35.00	0.00	0	0.00	0.26	0.92	0.00	-0.66	0.00E+00
Feb	1993	35.00	0.00	0	0.00	0.13	1.23	0.00	-1.10	0.00E+00
Mar	1993	35.00	7.80	0.29	2.81	3.58	1.98	0.00	4.21	0.00E+00
Apr	1993	35.00	9.17	0.35	7.35	1.71	3.3	8.11	-2.35	7.95E-08
May	1993	35.00	13.37	0.51	4.68	1.98	4.4	8.11	-5.95	7.95E-08
Jun	1993	35.00	98.59	3.8	34.15	6.14	5.76	8.11	26.41	7.95E-08
Jul	1993	35.00	22.54	0.86	34.14	2.67	7.08	8.11	21.62	7.95E-08
Aug	1993	35.00	12.58	0.46	25.93	1.82	6.95	8.11	12.69	7.95E-08
Sep	1993	35.00	2.10	0.08	13.41	1	5.6	8.11	0.79	7.95E-08
Oct	1993	35.00	12.58	0.48	5.11	1.48	3.74	8.11	-5.27	7.95E-08
Nov	1993	35.00	0.00	0	0.00	0.72	2.03	8.11	-9.42	7.95E-08
Dec	1993	35.00	0.00	0	0.00	0.82	1.1	0.00	-0.28	0.00E+00
Jan	1994	35.00	0.00	0	0.00	0.6	0.92	0.00	-0.32	0.00E+00
Feb	1994	35.00	0.00	0	0.00	0.38	1.23	0.00	-0.87	0.00E+00
Mar	1994	35.00	0.00	0	0.00	0.73	1.98	0.00	-1.25	0.00E+00
Apr	1994	35.00	8.98	0.38	3.41	1.62	3.3	8.11	-8.38	7.95E-08
May	1994	35.00	11.53	0.44	3.95	1.47	4.4	8.11	-7.09	7.95E-08
Jun	1994	35.00	6.29	0.24	2.16	1.22	5.76	8.11	-10.60	7.95E-08
Jul	1994	35.00	12.06	0.48	4.13	2.04	7.08	8.11	-9.02	7.95E-08
Aug	1994	35.00	1.05	0.04	0.36	0.45	6.95	8.11	-14.26	7.95E-08
Sep	1994	35.00	0.00	0	0.00	0.32	5.6	8.11	-13.29	7.95E-08
Oct	1994	35.00	12.84	0.49	4.40	2.19	3.74	8.11	-5.28	7.95E-08
Nov	1994	35.00	0.00	0	0.00	0.3	2.03	8.11	-9.84	7.95E-08
Dec	1994	35.00	0.00	0	0.00	0.71	1.1	0.00	-0.39	0.00E+00
Jan	1995	35.00	0.00	0	0.00	0.62	0.92	0.00	-0.40	0.00E+00
Feb	1995	35.00	0.00	0	0.00	0.7	1.28	0.00	-0.58	0.00E+00
Mar	1995	35.00	0.00	0	0.00	0.63	1.98	0.00	-1.35	0.00E+00
Apr	1995	35.00	1.31	0.05	0.45	1.38	3.3	8.11	-9.80	7.95E-08
May	1995	35.00	41.41	1.58	14.20	4.42	4.4	8.11	6.10	7.95E-08
Jun	1995	35.00	24.84	0.94	14.65	3.09	5.76	8.11	3.77	7.95E-08
Jul	1995	35.00	0.79	0.03	4.04	1.07	7.08	8.11	-10.08	7.95E-08
Aug	1995	35.00	0.26	0.01	0.09	0.65	6.95	8.11	-14.42	7.95E-08
Sep	1995	35.00	49.80	1.9	17.07	3.61	5.6	8.11	7.07	7.95E-08
Oct	1995	35.00	5.50	0.21	8.96	1.43	3.74	8.11	-1.47	7.95E-08
Nov	1995	35.00	2.38	0.09	0.81	0.81	2.03	8.11	-8.52	7.95E-08
Dec	1995	35.00	0.00	0	0.00	0.13	1.1	0.00	-0.97	0.00E+00
Jan	1996	35.00	0.00	0	0.00	0.35	0.92	0.00	-0.57	0.00E+00
Feb	1996	35.00	0.00	0	0.00	0.24	1.23	0.00	-0.99	0.00E+00
Mar	1996	35.00	0.00	0	0.00	0.92	1.98	0.00	-1.08	0.00E+00
Apr	1996	35.00	28.83	1.1	9.88	3	3.3	8.11	1.47	7.95E-08
May	1996	35.00	41.41	1.58	15.67	3.69	4.4	8.11	6.85	7.95E-08
Jun	1996	35.00	9.17	0.35	9.99	1.65	5.76	8.11	-2.03	7.95E-08
Jul	1996	35.00	0.52	0.02	0.18	0.65	7.08	8.11	-14.48	7.95E-08
Aug	1996	35.00	32.78	1.25	11.23	2.72	6.95	8.11	-1.11	7.95E-08
Sep	1996	35.00	3.41	0.13	1.17	1.37	5.6	8.11	-11.07	7.95E-08
Oct	1996	35.00	7.34	0.28	2.52	1.79	3.74	8.11	-7.56	7.95E-08
Nov	1996	35.00	0.00	0	0.00	0.5	2.03	8.11	-9.84	7.95E-08
Dec	1996	35.00	0.00	0	0.00	0.82	1.1	0.00	-0.48	0.00E+00
Jan	1997	35.00	0.00	0	0.00	0.82	0.92	0.00	-0.30	0.00E+00
Feb	1997	35.00	0.00	0	0.00	0.48	1.23	0.00	-0.75	0.00E+00
Mar	1997	35.00	0.00	0	0.00	0.32	1.98	0.00	-1.68	0.00E+00
Apr	1997	35.00	15.73	0.8	5.39	2.52	3.3	8.11	-3.50	7.95E-08

1985-1999 Estimated Monthly Water Balance for Evap Pond-Burdock Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip. (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Burdock Perm. (cm/sec)
May	1987	35.00	27.26	1.04	9.35	2.84	4.4	8.11	-0.33	7.95E-08
Jun	1987	35.00	22.80	0.87	7.82	3.17	5.78	8.11	-2.89	7.95E-08
Jul	1987	35.00	55.30	2.11	18.98	4.81	7.08	8.11	8.38	7.95E-08
Aug	1987	35.00	5.24	0.2	10.17	1.05	8.95	8.11	-3.84	7.95E-08
Sep	1987	35.00	1.93	0.07	0.83	0.73	5.5	8.11	-12.25	7.95E-08
Oct	1987	35.00	1.05	0.04	0.38	0.7	3.74	8.11	-10.79	7.95E-08
Nov	1987	35.00	2.10	0.08	0.72	0.43	2.03	8.11	-8.99	7.95E-08
Dec	1987	35.00	0.00	0	0.00	0.28	1.1	0.00	-0.84	0.00E+00
Jan	1988	35.00	0.00	0	0.00	0.52	0.92	0.00	-0.40	0.00E+00
Feb	1988	35.00	2.88	0.11	0.99	0.78	1.23	0.00	0.54	0.00E+00
Mar	1988	35.00	18.87	0.72	7.01	2.02	1.98	0.00	7.05	0.00E+00
Apr	1988	35.00	0.00	0	7.06	0.27	3.3	8.11	-4.09	7.95E-08
May	1988	35.00	30.66	1.17	10.51	3.58	4.4	8.11	1.58	7.95E-08
Jun	1988	35.00	44.55	1.7	18.88	3.38	5.78	8.11	6.34	7.95E-08
Jul	1988	35.00	38.00	1.45	19.37	3.38	7.08	8.11	7.58	7.95E-08
Aug	1988	35.00	16.20	0.58	12.77	2.38	8.95	8.11	0.07	7.95E-08
Sep	1988	35.00	32.78	1.25	11.30	2.08	5.5	8.11	-0.23	7.95E-08
Oct	1988	35.00	41.15	1.57	14.11	4.16	3.74	8.11	8.41	7.95E-08
Nov	1988	35.00	5.24	0.2	8.21	1.42	2.03	8.11	-0.51	7.95E-08
Dec	1988	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1989	35.00	0.00	0	0.00	0.55	0.92	0.00	-0.37	0.00E+00
Feb	1989	35.00	0.00	0	0.00	0.12	1.28	0.00	-1.18	0.00E+00
Mar	1989	35.00	0.00	0	0.00	0.55	1.98	0.00	-1.43	0.00E+00
Apr	1989	35.00	26.21	1	8.99	3.78	3.3	8.11	1.33	7.95E-08
May	1989	35.00	2.38	0.09	2.14	1.17	4.4	8.11	-9.20	7.95E-08
Jun	1989	35.00	71.81	2.74	24.62	5.57	5.78	8.11	16.32	7.95E-08
Jul	1989	35.00	3.15	0.12	17.40	0.98	7.08	8.11	3.18	7.95E-08
Aug	1989	35.00	31.45	1.2	13.97	1.88	8.95	8.11	0.86	7.95E-08
Sep	1989	35.00	10.22	0.39	4.37	1.79	5.5	8.11	-7.45	7.95E-08
Oct	1989	35.00	0.00	0	0.00	0.04	3.74	8.11	-11.81	7.95E-08
Nov	1989	35.00	0.79	0.03	0.27	0.58	2.03	8.11	-9.31	7.95E-08
Dec	1989	35.00	0.00	0	0.00	0.12	1.1	0.00	-0.98	0.00E+00
				4.83		18.98	44.00		28.41	

Assumes seepage is 0.00 for January, February, March and December due to frozen soils
 Trial is for bare soil, 314.5 acres irrigated area

Permeability value is geometric mean of three available permeability values from Burdock test pits, see
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1988-2000 Estimated Monthly Water Balance for Evap Pond--Burdock Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip. (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Burdock Perm. (cm/sec)
Jan	1988	35.00	0.00	0	0.00	0.07	0.92	0.00	-0.85	0.00E+00
Feb	1988	35.00	0.00	0	0.00	1.06	1.23	0.00	-0.17	0.00E+00
Mar	1988	35.00	0.00	0	0.00	0.62	1.98	0.00	-1.48	0.00E+00
Apr	1988	35.00	32.24	1.23	11.05	3.27	3.3	8.11	2.91	7.95E-08
May	1988	35.00	8.39	0.32	5.79	1.07	4.4	8.38	-6.93	7.95E-08
Jun	1988	35.00	65.78	2.51	22.55	4.87	5.76	8.11	13.55	7.95E-08
Jul	1988	35.00	5.24	0.2	15.35	1.83	7.08	8.38	1.62	7.95E-08
Aug	1988	35.00	6.81	0.28	3.85	1.19	6.95	8.38	-10.29	7.95E-08
Sep	1988	35.00	18.08	0.89	6.20	3.52	5.5	8.11	-3.89	7.95E-08
Oct	1988	35.00	42.72	1.83	14.65	3.88	3.74	8.38	6.40	7.95E-08
Nov	1988	35.00	2.10	0.08	7.12	0.86	2.03	8.11	-2.16	7.95E-08
Dec	1988	35.00	0.00	0	0.00	0.09	1.1	0.00	-1.01	0.00E+00
Jan	1987	35.00	0.00	0	0.00	0.13	0.92	0.00	-0.79	0.00E+00
Feb	1987	35.00	0.00	0	0.00	0.87	1.23	0.00	-0.36	0.00E+00
Mar	1987	35.00	3.16	0.12	1.08	2.22	1.98	0.00	1.32	0.00E+00
Apr	1987	35.00	4.98	0.18	3.03	0.69	3.3	8.11	-7.70	7.95E-08
May	1987	35.00	23.85	0.91	8.18	2.97	4.4	8.38	-1.64	7.95E-08
Jun	1987	35.00	0.79	0.03	0.27	0.59	5.76	8.11	-13.01	7.95E-08
Jul	1987	35.00	15.73	0.8	5.39	1.71	7.08	8.38	-8.36	7.95E-08
Aug	1987	35.00	2.36	0.09	0.81	1.04	6.95	8.38	-13.48	7.95E-08
Sep	1987	35.00	1.83	0.07	0.63	0.76	5.5	8.11	-12.22	7.95E-08
Oct	1987	35.00	0.26	0.01	0.09	0.42	3.74	8.38	-11.61	7.95E-08
Nov	1987	35.00	6.50	0.21	1.89	0.71	2.03	8.11	-7.55	7.95E-08
Dec	1987	35.00	0.26	0.01	0.09	0.25	1.1	0.00	-0.76	0.00E+00
Jan	1988	35.00	0.00	0	0.00	0.83	0.92	0.00	-0.29	0.00E+00
Feb	1988	35.00	0.00	0	0.00	0.21	1.28	0.00	-1.07	0.00E+00
Mar	1988	35.00	0.00	0	0.00	1.17	1.98	0.00	-0.81	0.00E+00
Apr	1988	35.00	1.67	0.06	0.54	0.63	3.3	8.11	-10.24	7.95E-08
May	1988	35.00	20.18	0.77	8.92	2.64	4.4	8.38	-3.22	7.95E-08
Jun	1988	35.00	40.36	1.54	13.84	2.78	5.76	8.11	2.75	7.95E-08
Jul	1988	35.00	23.33	0.89	10.74	2.18	7.08	8.38	-2.54	7.95E-08
Aug	1988	35.00	25.42	0.97	8.72	1.87	6.95	8.38	-4.75	7.95E-08
Sep	1988	35.00	1.05	0.04	0.36	0.84	5.5	8.11	-12.41	7.95E-08
Oct	1988	35.00	0.00	0	0.00	0.09	3.74	8.38	-12.03	7.95E-08
Nov	1988	35.00	0.26	0.01	0.09	0.62	2.03	8.11	-8.63	7.95E-08
Dec	1988	35.00	0.00	0	0.00	0.23	1.1	0.00	-0.87	0.00E+00
Jan	1989	35.00	0.00	0	0.00	0.09	0.92	0.00	-0.83	0.00E+00
Feb	1989	35.00	0.00	0	0.00	0.6	1.23	0.00	-0.63	0.00E+00
Mar	1989	35.00	0.62	0.02	0.18	1.14	1.98	0.00	-0.68	0.00E+00
Apr	1989	35.00	10.76	0.41	3.88	1.87	3.3	8.11	-8.06	7.95E-08
May	1989	35.00	3.15	0.12	1.08	1.41	4.4	8.11	-10.02	7.95E-08
Jun	1989	35.00	2.10	0.08	0.72	1.2	5.76	8.11	-10.18	7.95E-08
Jul	1989	35.00	19.13	0.73	8.58	2.21	7.08	8.11	-6.42	7.95E-08
Aug	1989	35.00	14.41	0.65	4.94	1.46	6.95	8.11	-8.66	7.95E-08
Sep	1989	35.00	55.68	2.12	19.05	3.94	5.5	8.11	9.38	7.95E-08
Oct	1989	35.00	2.88	0.11	10.37	1.07	3.74	8.11	-0.42	7.95E-08
Nov	1989	35.00	0.00	0	0.00	0.23	2.03	8.11	-9.91	7.95E-08
Dec	1989	35.00	0.00	0	0.00	0.56	1.1	0.00	-0.64	0.00E+00
Jan	1990	35.00	0.00	0	0.00	0.08	0.92	0.00	-0.84	0.00E+00
Feb	1990	35.00	0.00	0	0.00	0.4	1.23	0.00	-0.83	0.00E+00
Mar	1990	35.00	0.79	0.03	0.27	1.17	1.98	0.00	-0.64	0.00E+00
Apr	1990	35.00	11.01	0.42	3.77	2.31	3.3	8.11	-6.33	7.95E-08
May	1990	35.00	61.59	2.35	21.12	4.45	4.4	8.11	13.05	7.95E-08
Jun	1990	35.00	3.15	0.12	14.13	1.22	5.76	8.11	1.48	7.95E-08
Jul	1990	35.00	48.91	1.79	17.58	3.84	7.08	8.11	6.21	7.95E-08
Aug	1990	35.00	4.98	0.19	7.92	0.86	6.95	8.11	-6.28	7.95E-08
Sep	1990	35.00	35.12	1.34	12.04	2.48	5.5	8.11	0.91	7.95E-08
Oct	1990	35.00	1.83	0.07	1.54	0.89	3.74	8.11	-9.43	7.95E-08
Nov	1990	35.00	8.81	0.28	2.34	1.12	2.03	8.11	-6.69	7.95E-08
Dec	1990	35.00	0.79	0.03	0.27	0.32	1.1	0.00	-0.51	0.00E+00
Jan	1991	35.00	0.00	0	0.00	0.15	0.92	0.00	-0.77	0.00E+00
Feb	1991	35.00	0.00	0	0.00	0.9	1.23	0.00	-0.33	0.00E+00
Mar	1991	35.00	0.00	0	0.00	0.35	1.98	0.00	-1.63	0.00E+00
Apr	1991	35.00	4.46	0.17	1.53	1.58	3.3	8.11	-8.31	7.95E-08
May	1991	35.00	63.42	2.42	21.75	4.91	4.4	8.11	14.14	7.95E-08
Jun	1991	35.00	33.28	1.27	25.55	3.16	5.76	8.11	14.84	7.95E-08
Jul	1991	35.00	0.26	0.01	14.93	0.38	7.08	8.11	0.10	7.95E-08
Aug	1991	35.00	13.89	0.53	4.86	1.52	6.95	8.11	-8.68	7.95E-08
Sep	1991	35.00	0.00	0	0.00	0.29	5.5	8.11	-13.32	7.95E-08
Oct	1991	35.00	4.72	0.18	1.62	0.95	3.74	8.11	-8.29	7.95E-08
Nov	1991	35.00	0.28	0.01	0.09	0.51	2.03	8.11	-6.54	7.95E-08
Dec	1991	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1992	35.00	0.00	0	0.00	0.32	0.92	0.00	-0.80	0.00E+00
Feb	1992	35.00	1.63	0.07	0.63	0.51	1.28	0.00	-0.14	0.00E+00

1986-2000 Estimated Monthly Water Balance for Evap Pond--Burdock Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip. (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Burdock Perm. (cm/sec)
Mar	1992	35.00	5.77	0.22	1.98	1.07	1.86	0.00	1.07	0.00E+00
Apr	1992	35.00	0.79	0.03	1.34	0.66	3.3	8.11	-9.42	7.95E-06
May	1992	35.00	30.66	1.17	10.51	2.76	4.4	8.11	0.78	7.95E-06
Jun	1992	35.00	11.27	0.43	4.82	1.88	5.76	8.11	-7.37	7.95E-06
Jul	1992	35.00	20.18	0.77	8.82	3.82	7.08	8.11	-4.35	7.95E-06
Aug	1992	35.00	8.39	0.32	2.88	1.74	6.95	8.11	-10.45	7.95E-06
Sep	1992	35.00	0.00	0	0.00	0.08	5.5	8.11	-13.53	7.95E-06
Oct	1992	35.00	1.57	0.06	0.54	0.61	3.74	8.11	-10.70	7.95E-06
Nov	1992	35.00	0.00	0	0.00	0.2	2.03	8.11	-9.84	7.95E-06
Dec	1992	35.00	0.00	0	0.00	0.33	1.1	0.00	-0.77	0.00E+00
Jan	1993	35.00	0.00	0	0.00	0.26	0.82	0.00	-0.68	0.00E+00
Feb	1993	35.00	0.00	0	0.00	0.13	1.23	0.00	-1.10	0.00E+00
Mar	1993	35.00	7.60	0.29	2.81	3.58	1.88	0.00	4.21	0.00E+00
Apr	1993	35.00	9.17	0.35	7.35	1.71	3.3	8.11	-2.35	7.95E-06
May	1993	35.00	13.37	0.61	4.58	1.98	4.4	8.11	-5.95	7.95E-06
Jun	1993	35.00	99.59	3.8	34.15	8.14	5.76	8.11	26.41	7.95E-06
Jul	1993	35.00	22.54	0.88	34.14	2.87	7.08	8.11	21.82	7.95E-06
Aug	1993	35.00	12.68	0.48	25.93	1.82	6.95	8.11	12.89	7.95E-06
Sep	1993	35.00	2.10	0.06	13.41	1	5.5	8.11	0.79	7.95E-06
Oct	1993	35.00	12.68	0.48	5.11	1.48	3.74	8.11	-5.27	7.95E-06
Nov	1993	35.00	0.00	0	0.00	0.72	2.03	8.11	-9.42	7.95E-06
Dec	1993	35.00	0.00	0	0.00	0.82	1.1	0.00	-0.28	0.00E+00
Jan	1994	35.00	0.00	0	0.00	0.6	0.92	0.00	-0.32	0.00E+00
Feb	1994	35.00	0.00	0	0.00	0.36	1.23	0.00	-0.87	0.00E+00
Mar	1994	35.00	0.00	0	0.00	0.73	1.98	0.00	-1.25	0.00E+00
Apr	1994	35.00	9.98	0.38	3.41	1.82	3.3	8.11	-8.38	7.95E-06
May	1994	35.00	11.63	0.44	3.85	1.47	4.4	8.11	-7.09	7.95E-06
Jun	1994	35.00	8.28	0.24	2.16	1.22	5.76	8.11	-10.50	7.95E-06
Jul	1994	35.00	12.08	0.48	4.13	2.04	7.08	8.11	-9.02	7.95E-06
Aug	1994	35.00	1.05	0.04	0.38	0.45	6.95	8.11	-14.25	7.95E-06
Sep	1994	35.00	0.00	0	0.00	0.32	5.5	8.11	-13.29	7.95E-06
Oct	1994	35.00	12.84	0.49	4.40	2.19	3.74	8.11	-5.26	7.95E-06
Nov	1994	35.00	0.00	0	0.00	0.3	2.03	8.11	-9.84	7.95E-06
Dec	1994	35.00	0.00	0	0.00	0.71	1.1	0.00	-0.39	0.00E+00
Jan	1995	35.00	0.00	0	0.00	0.52	0.82	0.00	-0.40	0.00E+00
Feb	1995	35.00	0.00	0	0.00	0.7	1.23	0.00	-0.63	0.00E+00
Mar	1995	35.00	0.00	0	0.00	0.83	1.98	0.00	-1.35	0.00E+00
Apr	1995	35.00	1.31	0.05	0.45	1.36	3.3	8.11	-9.80	7.95E-06
May	1995	35.00	41.41	1.58	14.20	4.42	4.4	8.11	8.10	7.95E-06
Jun	1995	35.00	24.84	0.94	14.65	3.08	5.76	8.11	3.77	7.95E-06
Jul	1995	35.00	0.79	0.03	4.04	1.07	7.08	8.11	-10.08	7.95E-06
Aug	1995	35.00	0.28	0.01	0.09	0.55	6.95	8.11	-14.42	7.95E-06
Sep	1995	35.00	49.80	1.9	17.07	3.61	5.5	8.11	7.07	7.95E-06
Oct	1995	35.00	5.50	0.21	8.96	1.43	3.74	8.11	-1.47	7.95E-06
Nov	1995	35.00	2.36	0.09	0.81	0.81	2.03	8.11	-8.52	7.95E-06
Dec	1995	35.00	0.00	0	0.00	0.13	1.1	0.00	-0.97	0.00E+00
Jan	1996	35.00	0.00	0	0.00	0.35	0.92	0.00	-0.57	0.00E+00
Feb	1996	35.00	0.00	0	0.00	0.24	1.28	0.00	-1.04	0.00E+00
Mar	1996	35.00	0.00	0	0.00	0.82	1.98	0.00	-1.06	0.00E+00
Apr	1996	35.00	28.83	1.1	9.88	3	3.3	8.11	1.47	7.95E-06
May	1996	35.00	41.41	1.58	15.87	3.89	4.4	8.11	8.85	7.95E-06
Jun	1996	35.00	9.17	0.35	9.89	1.85	5.76	8.11	-2.03	7.95E-06
Jul	1996	35.00	0.52	0.02	0.18	0.55	7.08	8.11	-14.48	7.95E-06
Aug	1996	35.00	32.78	1.25	11.23	2.72	6.95	8.11	-1.11	7.95E-06
Sep	1996	35.00	3.41	0.13	1.17	1.37	5.5	8.11	-11.07	7.95E-06
Oct	1996	35.00	7.34	0.28	2.52	1.79	3.74	8.11	-7.55	7.95E-06
Nov	1996	35.00	0.00	0	0.00	0.5	2.03	8.11	-9.84	7.95E-06
Dec	1996	35.00	0.00	0	0.00	0.82	1.1	0.00	-0.48	0.00E+00
Jan	1997	35.00	0.00	0	0.00	0.82	0.92	0.00	-0.30	0.00E+00
Feb	1997	35.00	0.00	0	0.00	0.48	1.23	0.00	-0.75	0.00E+00
Mar	1997	35.00	0.00	0	0.00	0.32	1.98	0.00	-1.68	0.00E+00
Apr	1997	35.00	15.73	0.6	5.39	2.62	3.3	8.11	-3.50	7.95E-06
May	1997	35.00	27.28	1.04	9.35	2.84	4.4	8.11	-0.33	7.95E-06
Jun	1997	35.00	22.80	0.87	7.82	3.17	5.76	8.11	-2.89	7.95E-06
Jul	1997	35.00	55.30	2.11	18.96	4.81	7.08	8.11	8.38	7.95E-06
Aug	1997	35.00	5.24	0.2	10.17	1.05	6.95	8.11	-3.84	7.95E-06
Sep	1997	35.00	1.83	0.07	0.83	0.73	5.5	8.11	-12.25	7.95E-06
Oct	1997	35.00	1.05	0.04	0.38	0.7	3.74	8.11	-10.79	7.95E-06
Nov	1997	35.00	2.10	0.06	0.72	0.43	2.03	8.11	-8.99	7.95E-06
Dec	1997	35.00	0.00	0	0.00	0.28	1.1	0.00	-0.84	0.00E+00
Jan	1998	35.00	0.00	0	0.00	0.52	0.92	0.00	-0.40	0.00E+00
Feb	1998	35.00	2.88	0.11	0.99	0.78	1.23	0.00	0.54	0.00E+00
Mar	1998	35.00	18.87	0.72	7.01	2.02	1.98	0.00	7.05	0.00E+00
Apr	1998	35.00	0.00	0	7.05	0.27	3.3	8.11	-4.09	7.95E-06

1988-2000 Estimated Monthly Water Balance for Evap Pond--Burdock Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip. (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Burdock Perm. (cm/sec)
May	1988	35.00	30.66	1.17	10.51	3.68	4.4	8.11	1.58	7.95E-06
Jun	1988	35.00	44.65	1.7	18.86	3.38	6.76	8.11	6.34	7.95E-06
Jul	1988	35.00	36.00	1.45	19.37	3.38	7.08	8.11	7.88	7.95E-06
Aug	1988	35.00	15.20	0.68	12.77	2.36	6.95	8.11	0.07	7.95E-06
Sep	1988	35.00	32.78	1.25	11.30	2.08	5.5	8.11	-0.23	7.95E-06
Oct	1988	35.00	41.15	1.57	14.11	4.16	3.74	8.11	6.41	7.95E-06
Nov	1988	35.00	5.24	0.2	8.21	1.42	2.03	8.11	-0.51	7.95E-06
Dec	1988	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1989	35.00	0.00	0	0.00	0.56	0.82	0.00	-0.37	0.00E+00
Feb	1989	35.00	0.00	0	0.00	0.12	1.23	0.00	-1.11	0.00E+00
Mar	1989	35.00	0.00	0	0.00	0.55	1.98	0.00	-1.43	0.00E+00
Apr	1989	35.00	26.21	1	8.99	3.76	3.3	8.11	1.33	7.95E-06
May	1989	35.00	2.36	0.09	2.14	1.17	4.4	8.11	-9.20	7.95E-06
Jun	1989	35.00	71.81	2.74	24.82	5.57	5.76	8.11	16.32	7.95E-06
Jul	1989	35.00	3.15	0.12	17.40	0.98	7.08	8.11	3.18	7.95E-06
Aug	1989	35.00	31.46	1.2	13.97	1.96	6.95	8.11	0.86	7.95E-06
Sep	1989	35.00	10.22	0.38	4.37	1.79	5.5	8.11	-7.46	7.95E-06
Oct	1989	35.00	0.00	0	0.00	0.04	3.74	8.11	-11.81	7.95E-06
Nov	1989	35.00	0.79	0.03	0.27	0.56	2.03	8.11	-9.31	7.95E-06
Dec	1989	35.00	0.00	0	0.00	0.12	1.1	0.00	-0.98	0.00E+00
Jan	2000	35.00	0.00	0	0.00	0.18	0.82	0.00	-0.76	0.00E+00
Feb	2000	35.00	0.28	0.01	0.09	1.09	1.28	0.00	-0.10	0.00E+00
Mar	2000	35.00	8.12	0.31	2.79	1.48	1.98	0.00	2.29	0.00E+00
Apr	2000	35.00	89.46	2.85	26.10	4.74	3.3	8.11	19.42	7.95E-06
May	2000	35.00	0.52	0.02	18.80	0.78	4.4	8.11	7.87	7.95E-06
Jun	2000	35.00	0.00	0	7.87	0.43	5.76	8.11	-5.57	7.95E-06
Jul	2000	35.00	13.10	0.5	4.49	2.24	7.08	8.11	-8.46	7.95E-06
Aug	2000	35.00	1.57	0.06	0.54	0.69	6.95	8.11	-13.83	7.95E-06
Sep	2000	35.00	3.93	0.15	1.35	1.03	5.5	8.11	-11.23	7.95E-06
Oct	2000	35.00	2.88	0.11	0.99	1.08	3.74	8.11	-9.78	7.95E-06
Nov	2000	35.00	0.00	0	0.00	0.43	2.03	8.11	-9.71	7.95E-06
Dec	2000	35.00	0.00	0	0.00	0.38	1.1	0.00	-0.74	0.00E+00
				4.89		17.08	44.00		28.41	

Assumes seepage is 0.00 for January, February, March and December due to frozen soils
 Trial is for bare soil, 314.6 acres irrigated area

Permeability value is geometric mean of three available permeability values from Burdock test pits, see
 G:\102\00279.02\Data info\08 Land Application-Irrigation\Dewey-Burdock\Soli Hydr Props\Dewey_Burdock_Soli.xls

1988-2002 Estimated Monthly Water Balance for Evap Pond—Burdock Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip. (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Burdock Perm. (cm/sec)
Jan	1988	35.00	0.00	0	0.00	0.24	0.92	0.00	-0.68	0.00E+00
Feb	1988	35.00	0.00	0	0.00	0.21	1.23	0.00	-1.02	0.00E+00
Mar	1988	35.00	0.00	0	0.00	1.17	1.98	0.00	-0.81	0.00E+00
Apr	1988	35.00	1.57	0.06	0.54	0.63	3.3	8.11	-10.24	7.95E-06
May	1988	35.00	20.16	0.77	6.62	2.84	4.4	8.38	-3.22	7.95E-06
Jun	1988	35.00	40.36	1.54	13.84	2.78	5.78	8.11	2.75	7.95E-06
Jul	1988	35.00	22.02	0.84	10.28	2.18	7.08	8.38	-2.98	7.95E-06
Aug	1988	35.00	25.42	0.97	8.72	1.87	6.95	8.38	-4.75	7.95E-06
Sep	1988	35.00	1.05	0.04	0.38	0.84	5.5	8.11	-12.41	7.95E-06
Oct	1988	35.00	0.00	0	0.00	0.09	3.74	8.38	-12.03	7.95E-06
Nov	1988	35.00	0.28	0.01	0.09	0.52	2.03	8.11	-8.53	7.95E-06
Dec	1988	35.00	0.00	0	0.00	0.23	1.1	0.00	-0.87	0.00E+00
Jan	1989	35.00	0.00	0	0.00	0.08	0.92	0.00	-0.83	0.00E+00
Feb	1989	35.00	0.00	0	0.00	0.6	1.23	0.00	-0.83	0.00E+00
Mar	1989	35.00	0.52	0.02	0.18	1.14	1.98	0.00	-0.66	0.00E+00
Apr	1989	35.00	10.75	0.41	3.68	1.67	3.3	8.11	-8.08	7.95E-06
May	1989	35.00	3.15	0.12	1.08	1.41	4.4	8.38	-10.29	7.95E-06
Jun	1989	35.00	2.10	0.08	0.72	1.2	5.78	8.11	-11.95	7.95E-06
Jul	1989	35.00	18.13	0.73	6.56	2.21	7.08	8.38	-8.89	7.95E-06
Aug	1989	35.00	14.41	0.55	4.94	1.46	6.95	8.38	-8.93	7.95E-06
Sep	1989	35.00	52.15	1.99	17.88	3.94	5.5	8.11	8.21	7.95E-06
Oct	1989	35.00	2.88	0.11	9.20	1.07	3.74	8.38	-1.88	7.95E-06
Nov	1989	35.00	0.00	0	0.00	0.23	2.03	8.11	-9.91	7.95E-06
Dec	1989	35.00	0.00	0	0.00	0.58	1.1	0.00	-0.54	0.00E+00
Jan	1990	35.00	0.00	0	0.00	0.08	0.92	0.00	-0.84	0.00E+00
Feb	1990	35.00	0.00	0	0.00	0.4	1.28	0.00	-0.88	0.00E+00
Mar	1990	35.00	0.79	0.03	0.27	1.17	1.98	0.00	-0.54	0.00E+00
Apr	1990	35.00	11.01	0.42	3.77	2.31	3.3	8.11	-5.33	7.95E-06
May	1990	35.00	81.33	2.34	21.03	4.46	4.4	8.38	12.89	7.95E-06
Jun	1990	35.00	3.15	0.12	13.77	1.22	5.78	8.11	1.12	7.95E-06
Jul	1990	35.00	46.91	1.78	17.20	3.84	7.08	8.38	5.58	7.95E-06
Aug	1990	35.00	4.98	0.19	7.29	0.66	6.95	8.38	-7.19	7.95E-06
Sep	1990	35.00	35.12	1.34	12.04	2.48	5.5	8.11	0.91	7.95E-06
Oct	1990	35.00	1.83	0.07	1.54	0.89	3.74	8.38	-8.70	7.95E-06
Nov	1990	35.00	6.81	0.28	2.34	1.12	2.03	8.11	-8.89	7.95E-06
Dec	1990	35.00	0.79	0.03	0.27	0.32	1.1	0.00	-0.51	0.00E+00
Jan	1991	35.00	0.00	0	0.00	0.15	0.92	0.00	-0.77	0.00E+00
Feb	1991	35.00	0.00	0	0.00	0.9	1.23	0.00	-0.33	0.00E+00
Mar	1991	35.00	0.00	0	0.00	0.35	1.98	0.00	-1.63	0.00E+00
Apr	1991	35.00	4.46	0.17	1.53	1.58	3.3	8.11	-8.31	7.95E-06
May	1991	35.00	63.42	2.42	21.75	4.91	4.4	8.11	14.14	7.95E-06
Jun	1991	35.00	33.28	1.27	25.55	3.16	6.78	8.11	14.84	7.95E-06
Jul	1991	35.00	0.28	0.01	14.93	0.38	7.08	8.11	0.10	7.95E-06
Aug	1991	35.00	13.89	0.53	4.88	1.52	6.95	8.11	-8.68	7.95E-06
Sep	1991	35.00	0.00	0	0.00	0.29	5.5	8.11	-13.32	7.95E-06
Oct	1991	35.00	4.72	0.18	1.82	0.95	3.74	8.11	-9.29	7.95E-06
Nov	1991	35.00	0.28	0.01	0.09	0.51	2.03	8.11	-9.54	7.95E-06
Dec	1991	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1992	35.00	0.00	0	0.00	0.32	0.92	0.00	-0.80	0.00E+00
Feb	1992	35.00	1.83	0.07	0.63	0.51	1.23	0.00	-0.09	0.00E+00
Mar	1992	35.00	5.77	0.22	1.98	1.07	1.98	0.00	1.07	0.00E+00
Apr	1992	35.00	0.79	0.03	1.34	0.68	3.3	8.11	-9.42	7.95E-06
May	1992	35.00	30.68	1.17	10.51	2.76	4.4	8.11	0.76	7.95E-06
Jun	1992	35.00	11.27	0.43	4.62	1.88	5.78	8.11	-7.37	7.95E-06
Jul	1992	35.00	20.18	0.77	6.92	3.82	7.08	8.11	-4.35	7.95E-06
Aug	1992	35.00	8.39	0.32	2.88	1.74	6.95	8.11	-10.45	7.95E-06
Sep	1992	35.00	0.00	0	0.00	0.08	5.5	8.11	-13.53	7.95E-06
Oct	1992	35.00	1.57	0.06	0.54	0.61	3.74	8.11	-10.70	7.95E-06
Nov	1992	35.00	0.00	0	0.00	0.2	2.03	8.11	-9.94	7.95E-06
Dec	1992	35.00	0.00	0	0.00	0.33	1.1	0.00	-0.77	0.00E+00
Jan	1993	35.00	0.00	0	0.00	0.26	0.92	0.00	-0.68	0.00E+00
Feb	1993	35.00	0.00	0	0.00	0.13	1.23	0.00	-1.10	0.00E+00
Mar	1993	35.00	7.60	0.29	2.61	3.58	1.98	0.00	4.21	0.00E+00
Apr	1993	35.00	9.17	0.35	7.35	1.71	3.3	8.11	-2.35	7.95E-06
May	1993	35.00	13.37	0.51	4.58	1.98	4.4	8.11	-6.95	7.95E-06
Jun	1993	35.00	99.69	3.8	34.15	8.14	5.78	8.11	28.41	7.95E-06
Jul	1993	35.00	22.54	0.88	34.14	2.87	7.08	8.11	21.82	7.95E-06
Aug	1993	35.00	12.58	0.48	25.83	1.82	6.95	8.11	12.89	7.95E-06
Sep	1993	35.00	2.10	0.08	13.41	1	5.5	8.11	0.79	7.95E-06
Oct	1993	35.00	12.68	0.48	5.11	1.48	3.74	8.11	-5.27	7.95E-06
Nov	1993	35.00	0.00	0	0.00	0.72	2.03	8.11	-9.42	7.95E-06
Dec	1993	35.00	0.00	0	0.00	0.82	1.1	0.00	-0.28	0.00E+00
Jan	1994	35.00	0.00	0	0.00	0.6	0.92	0.00	-0.32	0.00E+00
Feb	1994	35.00	0.00	0	0.00	0.38	1.28	0.00	-0.92	0.00E+00

1988-2002 Estimated Monthly Water Balance for Evap Pond-Burdock Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip. (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Burdock Perm. (cm/sec)
Mar	1994	35.00	0.00	0	0.00	0.73	1.98	0.00	-1.25	0.00E+00
Apr	1994	35.00	9.98	0.38	3.41	1.82	3.3	8.11	-6.38	7.95E-08
May	1994	35.00	11.53	0.44	3.95	1.47	4.4	8.11	-7.09	7.95E-08
Jun	1994	35.00	8.29	0.24	2.16	1.22	5.78	8.11	-10.60	7.95E-08
Jul	1994	35.00	12.06	0.46	4.13	2.04	7.08	8.11	-9.02	7.95E-08
Aug	1994	35.00	1.05	0.04	0.38	0.45	6.95	8.11	-14.25	7.95E-08
Sep	1994	35.00	0.00	0	0.00	0.32	5.5	8.11	-13.29	7.95E-08
Oct	1994	35.00	12.84	0.49	4.40	2.19	3.74	8.11	-5.26	7.95E-08
Nov	1994	35.00	0.00	0	0.00	0.3	2.03	8.11	-9.84	7.95E-08
Dec	1994	35.00	0.00	0	0.00	0.71	1.1	0.00	-0.39	0.00E+00
Jan	1995	35.00	0.00	0	0.00	0.62	0.92	0.00	-0.40	0.00E+00
Feb	1995	35.00	0.00	0	0.00	0.7	1.23	0.00	-0.53	0.00E+00
Mar	1995	35.00	0.00	0	0.00	0.63	1.98	0.00	-1.36	0.00E+00
Apr	1995	35.00	1.31	0.05	0.45	1.36	3.3	8.11	-8.60	7.95E-08
May	1995	35.00	41.41	1.58	14.20	4.42	4.4	8.11	8.10	7.95E-08
Jun	1995	35.00	24.64	0.94	14.65	3.09	5.78	8.11	3.77	7.95E-08
Jul	1995	35.00	0.79	0.03	4.04	1.07	7.08	8.11	-10.08	7.95E-08
Aug	1995	35.00	0.28	0.01	0.09	0.55	8.95	8.11	-14.42	7.95E-08
Sep	1995	35.00	49.80	1.9	17.07	3.61	5.5	8.11	7.07	7.95E-08
Oct	1995	35.00	5.50	0.21	8.98	1.43	3.74	8.11	-1.47	7.95E-08
Nov	1995	35.00	2.36	0.09	0.81	0.81	2.03	8.11	-8.52	7.95E-08
Dec	1995	35.00	0.00	0	0.00	0.13	1.1	0.00	-0.97	0.00E+00
Jan	1996	35.00	0.00	0	0.00	0.36	0.92	0.00	-0.57	0.00E+00
Feb	1996	35.00	0.00	0	0.00	0.24	1.23	0.00	-0.99	0.00E+00
Mar	1996	35.00	0.00	0	0.00	0.92	1.98	0.00	-1.08	0.00E+00
Apr	1996	35.00	28.83	1.1	9.88	3	3.3	8.11	1.47	7.95E-08
May	1996	35.00	41.41	1.58	15.67	3.69	4.4	8.11	6.85	7.95E-08
Jun	1996	35.00	9.17	0.36	9.99	1.85	5.78	8.11	-2.03	7.95E-08
Jul	1996	35.00	0.82	0.02	0.18	0.55	7.08	8.11	-14.46	7.95E-08
Aug	1996	35.00	32.78	1.25	11.23	2.72	8.95	8.11	-1.11	7.95E-08
Sep	1996	35.00	3.41	0.13	1.17	1.37	5.5	8.11	-11.07	7.95E-08
Oct	1996	35.00	7.34	0.28	2.52	1.79	3.74	8.11	-7.55	7.95E-08
Nov	1996	35.00	0.00	0	0.00	0.5	2.03	8.11	-9.84	7.95E-08
Dec	1996	35.00	0.00	0	0.00	0.82	1.1	0.00	-0.48	0.00E+00
Jan	1997	35.00	0.00	0	0.00	0.82	0.92	0.00	-0.30	0.00E+00
Feb	1997	35.00	0.00	0	0.00	0.48	1.23	0.00	-0.75	0.00E+00
Mar	1997	35.00	0.00	0	0.00	0.32	1.98	0.00	-1.68	0.00E+00
Apr	1997	35.00	16.73	0.6	5.39	2.52	3.3	8.11	-3.50	7.95E-08
May	1997	35.00	27.28	1.04	9.35	2.84	4.4	8.11	-0.33	7.95E-08
Jun	1997	35.00	22.80	0.87	7.82	3.17	5.78	8.11	-2.89	7.95E-08
Jul	1997	35.00	55.30	2.11	18.98	4.61	7.08	8.11	8.38	7.95E-08
Aug	1997	35.00	5.24	0.2	10.17	1.05	6.95	8.11	-3.84	7.95E-08
Sep	1997	35.00	1.83	0.07	0.63	0.73	5.5	8.11	-12.25	7.95E-08
Oct	1997	35.00	1.05	0.04	0.38	0.7	3.74	8.11	-10.79	7.95E-08
Nov	1997	35.00	2.10	0.08	0.72	0.43	2.03	8.11	-8.99	7.95E-08
Dec	1997	35.00	0.00	0	0.00	0.28	1.1	0.00	-0.84	0.00E+00
Jan	1998	35.00	0.00	0	0.00	0.52	0.92	0.00	-0.40	0.00E+00
Feb	1998	35.00	2.88	0.11	0.99	0.78	1.28	0.00	0.49	0.00E+00
Mar	1998	35.00	18.87	0.72	8.88	2.02	1.98	0.00	7.00	0.00E+00
Apr	1998	35.00	0.00	0	7.00	0.27	3.3	8.11	-4.14	7.95E-08
May	1998	35.00	30.69	1.17	10.51	3.58	4.4	8.11	1.58	7.95E-08
Jun	1998	35.00	44.55	1.7	18.88	3.38	5.78	8.11	8.34	7.95E-08
Jul	1998	35.00	38.00	1.45	19.37	3.38	7.08	8.11	7.58	7.95E-08
Aug	1998	35.00	16.20	0.58	12.77	2.38	6.95	8.11	0.07	7.95E-08
Sep	1998	35.00	32.78	1.26	11.30	2.08	5.5	8.11	-0.23	7.95E-08
Oct	1998	35.00	41.15	1.57	14.11	4.18	3.74	8.11	8.41	7.95E-08
Nov	1998	35.00	5.24	0.2	8.21	1.42	2.03	8.11	-0.51	7.95E-08
Dec	1998	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1999	35.00	0.00	0	0.00	0.65	0.92	0.00	-0.37	0.00E+00
Feb	1999	35.00	0.00	0	0.00	0.12	1.23	0.00	-1.11	0.00E+00
Mar	1999	35.00	0.00	0	0.00	0.55	1.98	0.00	-1.43	0.00E+00
Apr	1999	35.00	28.21	1	8.89	3.78	3.3	8.11	1.33	7.95E-08
May	1999	35.00	2.36	0.09	2.14	1.17	4.4	8.11	-9.20	7.95E-08
Jun	1999	35.00	71.81	2.74	24.62	5.57	5.78	8.11	16.32	7.95E-08
Jul	1999	35.00	3.15	0.12	17.40	0.98	7.08	8.11	3.18	7.95E-08
Aug	1999	35.00	31.45	1.2	13.97	1.88	8.95	8.11	0.88	7.95E-08
Sep	1999	35.00	10.22	0.39	4.37	1.79	5.5	8.11	-7.45	7.95E-08
Oct	1999	35.00	0.00	0	0.00	0.04	3.74	8.11	-11.81	7.95E-08
Nov	1999	35.00	0.78	0.03	0.27	0.58	2.03	8.11	-9.31	7.95E-08
Dec	1999	35.00	0.00	0	0.00	0.12	1.1	0.00	-0.88	0.00E+00
Jan	2000	35.00	0.00	0	0.00	0.18	0.92	0.00	-0.78	0.00E+00
Feb	2000	35.00	0.28	0.01	0.09	1.09	1.23	0.00	-0.05	0.00E+00
Mar	2000	35.00	8.12	0.31	2.79	1.48	1.98	0.00	2.29	0.00E+00
Apr	2000	35.00	69.45	2.85	26.10	4.74	3.3	8.11	19.42	7.95E-08

1988-2002 Estimated Monthly Water Balance for Evap Pond-Burdock Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip. (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Burdock Perm. (cm/sec)
May	2000	35.00	0.52	0.02	19.80	0.78	4.4	8.11	7.87	7.95E-06
Jun	2000	35.00	0.00	0	7.87	0.43	6.76	8.11	-5.57	7.95E-06
Jul	2000	35.00	13.10	0.5	4.49	2.24	7.08	8.11	-8.48	7.95E-06
Aug	2000	35.00	1.57	0.08	0.54	0.89	6.95	8.11	-13.83	7.95E-06
Sep	2000	35.00	3.93	0.15	1.35	1.03	5.5	8.11	-11.23	7.95E-06
Oct	2000	35.00	2.88	0.11	0.99	1.08	3.74	8.11	-8.78	7.95E-06
Nov	2000	35.00	0.00	0	0.00	0.43	2.03	8.11	-9.71	7.95E-06
Dec	2000	35.00	0.00	0	0.00	0.36	1.1	0.00	-0.74	0.00E+00
Jan	2001	35.00	0.00	0	0.00	0.06	0.92	0.00	-0.86	0.00E+00
Feb	2001	35.00	0.00	0	0.00	0.58	1.23	0.00	-0.85	0.00E+00
Mar	2001	35.00	0.00	0	0.00	0.95	1.98	0.00	-1.03	0.00E+00
Apr	2001	35.00	19.88	0.75	8.74	2.46	3.3	8.11	-2.21	7.95E-06
May	2001	35.00	10.75	0.41	3.88	1.87	4.4	8.11	-7.16	7.95E-06
Jun	2001	35.00	31.19	1.19	10.69	3.22	5.76	8.11	0.04	7.95E-06
Jul	2001	35.00	82.82	3.18	28.44	4.98	7.08	8.11	18.20	7.95E-06
Aug	2001	35.00	6.81	0.28	20.54	1.28	6.95	8.11	8.74	7.95E-06
Sep	2001	35.00	0.00	0	8.74	0.33	5.5	8.11	-8.55	7.95E-06
Oct	2001	35.00	8.29	0.24	2.18	1.18	3.74	8.11	-8.52	7.95E-06
Nov	2001	35.00	5.77	0.22	1.98	1.3	2.03	8.11	-6.87	7.95E-06
Dec	2001	35.00	0.00	0	0.00	0.13	1.1	0.00	-0.97	0.00E+00
Jan	2002	35.00	0.00	0	0.00	0.04	0.92	0.00	-0.88	0.00E+00
Feb	2002	35.00	0.00	0	0.00	0.21	1.28	0.00	-1.07	0.00E+00
Mar	2002	35.00	0.00	0	0.00	1.44	1.98	0.00	-0.54	0.00E+00
Apr	2002	35.00	4.98	0.19	1.71	1.89	3.3	8.11	-8.02	7.95E-06
May	2002	35.00	8.03	0.23	2.07	1.88	4.4	8.11	-8.77	7.95E-06
Jun	2002	35.00	8.03	0.23	2.07	1.23	5.76	8.11	-10.58	7.95E-06
Jul	2002	35.00	1.57	0.08	0.54	0.74	7.08	8.11	-13.91	7.95E-06
Aug	2002	35.00	30.93	1.18	10.60	2.38	6.95	8.11	-2.08	7.95E-06
Sep	2002	35.00	18.77	0.84	5.75	2.47	5.5	8.11	-5.39	7.95E-06
Oct	2002	35.00	2.82	0.1	0.90	0.82	3.74	8.11	-10.13	7.95E-06
Nov	2002	35.00	0.26	0.01	0.09	0.33	2.03	8.11	-9.72	7.95E-06
Dec	2002	35.00	0.00	0	0.00	0.08	1.1	0.00	-1.02	0.00E+00
				4.88		18.82	44.00		28.41	

Assumes seepage is 0.00 for January, February, March and December due to frozen soils
 Trial is for bare soil, 314.5 acres irrigated area

Permeability value is geometric mean of three available permeability values from Burdock test pits, see
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2002-1988 Estimated Monthly Water Balance for Evap Pond--Burdock Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip. (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Burdock Perm. (cm/sec)
Jan	2002	35.00	0.00	0	0.00	0.04	0.92	0.00	-0.88	0.00E+00
Feb	2002	35.00	0.00	0	0.00	0.21	1.23	0.00	-1.02	0.00E+00
Mar	2002	35.00	0.00	0	0.00	1.44	1.98	0.00	-0.54	0.00E+00
Apr	2002	35.00	4.98	0.19	1.71	1.69	3.3	8.11	-8.02	7.95E-08
May	2002	35.00	8.03	0.23	2.07	1.68	4.4	8.38	-9.04	7.95E-08
Jun	2002	35.00	8.03	0.23	2.07	1.23	5.78	8.11	-10.58	7.95E-08
Jul	2002	35.00	1.67	0.08	0.54	0.74	7.08	8.38	-14.16	7.95E-08
Aug	2002	35.00	30.93	1.18	10.80	2.38	8.95	8.38	-2.35	7.95E-08
Sep	2002	35.00	18.77	0.84	5.75	2.47	5.5	8.11	-5.39	7.95E-08
Oct	2002	35.00	2.82	0.1	0.90	0.82	3.74	8.38	-10.40	7.95E-08
Nov	2002	35.00	0.28	0.01	0.09	0.33	2.03	8.11	-8.72	7.95E-08
Dec	2002	35.00	0.00	0	0.00	0.06	1.1	0.00	-1.02	0.00E+00
Jan	2003	35.00	0.00	0	0.00	0.47	0.92	0.00	-0.45	0.00E+00
Feb	2003	35.00	0.00	0	0.00	0.43	1.23	0.00	-0.80	0.00E+00
Mar	2003	35.00	6.81	0.28	2.34	1.82	1.98	0.00	2.28	0.00E+00
Apr	2003	35.00	16.48	0.59	7.68	1.98	3.3	8.11	-1.87	7.95E-08
May	2003	35.00	12.32	0.47	4.22	1.95	4.4	8.38	-8.61	7.95E-08
Jun	2003	35.00	11.01	0.42	3.77	2.8	5.78	8.11	-7.30	7.95E-08
Jul	2003	35.00	0.00	0	0.00	0.05	7.08	8.38	-15.41	7.95E-08
Aug	2003	35.00	21.23	0.81	7.28	1.89	8.95	8.38	-6.16	7.95E-08
Sep	2003	35.00	10.75	0.41	3.88	1.58	5.5	8.11	-8.35	7.95E-08
Oct	2003	35.00	0.82	0.02	0.18	0.8	3.74	8.38	-11.34	7.95E-08
Nov	2003	35.00	0.28	0.01	0.09	0.44	2.03	8.11	-9.61	7.95E-08
Dec	2003	35.00	2.10	0.08	0.72	0.6	1.1	0.00	0.22	0.00E+00
Jan	2004	35.00	0.00	0	0.22	0.3	0.92	0.00	-0.40	0.00E+00
Feb	2004	35.00	0.00	0	0.00	1.3	1.28	0.00	0.02	0.00E+00
Mar	2004	35.00	0.00	0	0.02	0.06	1.98	0.00	-1.90	0.00E+00
Apr	2004	35.00	0.00	0	0.00	0.32	3.3	8.11	-11.09	7.95E-08
May	2004	35.00	1.31	0.05	0.45	0.97	4.4	8.38	-11.36	7.95E-08
Jun	2004	35.00	1.05	0.04	0.38	1.28	5.78	8.11	-12.25	7.95E-08
Jul	2004	35.00	8.44	0.38	3.23	2.21	7.08	8.38	-10.02	7.95E-08
Aug	2004	35.00	1.67	0.08	0.54	0.98	8.95	8.38	-13.81	7.95E-08
Sep	2004	35.00	18.35	0.7	6.29	2.61	5.5	8.11	-4.71	7.95E-08
Oct	2004	35.00	18.08	0.89	6.20	1.89	3.74	8.38	-4.03	7.95E-08
Nov	2004	35.00	0.00	0	0.00	0.2	2.03	8.11	-9.94	7.95E-08
Dec	2004	35.00	0.00	0	0.00	0.08	1.1	0.00	-1.02	0.00E+00
Jan	2005	35.00	0.00	0	0.00	0.47	0.92	0.00	-0.45	0.00E+00
Feb	2005	35.00	0.00	0	0.00	0.1	1.23	0.00	-1.13	0.00E+00
Mar	2005	35.00	13.10	0.5	4.49	1.88	1.98	0.00	4.19	0.00E+00
Apr	2005	35.00	27.52	1.05	13.83	2.73	3.3	8.11	4.95	7.95E-08
May	2005	35.00	16.25	0.82	10.52	2.66	4.4	8.11	0.88	7.95E-08
Jun	2005	35.00	109.29	4.17	38.13	8.24	5.78	8.11	10.44	7.95E-08
Jul	2005	35.00	23.59	0.9	38.59	2.07	7.08	8.11	26.47	7.95E-08
Aug	2005	35.00	13.89	0.53	30.23	1.91	8.95	8.11	17.08	7.95E-08
Sep	2005	35.00	0.00	0	17.08	0.37	5.5	8.11	3.83	7.95E-08
Oct	2005	35.00	13.63	0.52	8.51	1.49	3.74	8.11	-1.86	7.95E-08
Nov	2005	35.00	0.00	0	0.00	0.04	2.03	8.11	-10.10	7.95E-08
Dec	2005	35.00	0.00	0	0.00	0.4	1.1	0.00	-0.70	0.00E+00
Jan	2006	35.00	0.00	0	0.00	0.26	0.92	0.00	-0.66	0.00E+00
Feb	2006	35.00	0.00	0	0.00	0.61	1.23	0.00	-0.72	0.00E+00
Mar	2006	35.00	0.00	0	0.00	0.93	1.98	0.00	-1.05	0.00E+00
Apr	2006	35.00	8.03	0.23	2.07	1.35	3.3	8.11	-8.00	7.95E-08
May	2006	35.00	18.08	0.89	6.20	2.11	4.4	8.11	-4.20	7.95E-08
Jun	2006	35.00	8.29	0.24	2.16	1.35	5.78	8.11	-10.37	7.95E-08
Jul	2006	35.00	45.08	1.72	15.48	3.15	7.08	8.11	3.41	7.95E-08
Aug	2006	35.00	5.24	0.2	5.21	1.34	8.95	8.11	-8.51	7.95E-08
Sep	2006	35.00	4.72	0.18	1.62	0.91	5.5	8.11	-11.09	7.95E-08
Oct	2006	35.00	1.57	0.08	0.54	0.89	3.74	8.11	-10.82	7.95E-08
Nov	2006	35.00	0.00	0	0.00	0.26	2.03	8.11	-9.88	7.95E-08
Dec	2006	35.00	0.00	0	0.00	0.38	1.1	0.00	-0.74	0.00E+00
Jan	2007	35.00	0.00	0	0.00	0.14	0.92	0.00	-0.78	0.00E+00
Feb	2007	35.00	0.00	0	0.00	0.44	1.23	0.00	-0.79	0.00E+00
Mar	2007	35.00	28.21	1	8.69	1.74	1.98	0.00	8.75	0.00E+00
Apr	2007	35.00	2.88	0.11	9.73	1.09	3.3	8.11	-0.59	7.95E-08
May	2007	35.00	15.99	0.81	5.48	1.72	4.4	8.11	-5.31	7.95E-08
Jun	2007	35.00	1.31	0.05	0.45	0.87	5.78	8.11	-12.75	7.95E-08
Jul	2007	35.00	48.13	1.78	16.81	3.5	7.08	8.11	4.12	7.95E-08
Aug	2007	35.00	9.44	0.38	7.38	2.05	8.95	8.11	-5.68	7.95E-08
Sep	2007	35.00	1.31	0.05	0.45	0.83	5.5	8.11	-12.33	7.95E-08
Oct	2007	35.00	13.10	0.5	4.49	1.72	3.74	8.11	-5.64	7.95E-08
Nov	2007	35.00	0.00	0	0.00	0.08	2.03	8.11	-10.08	7.95E-08
Dec	2007	35.00	0.00	0	0.00	0.37	1.1	0.00	-0.73	0.00E+00
Jan	1980	35.00	0.00	0	0.00	0.59	0.92	0.00	-0.33	0.00E+00
Feb	1980	35.00	0.00	0	0.00	0.77	1.28	0.00	-0.51	0.00E+00

2002-1988 Estimated Monthly Water Balance for Evap Pond--Burdock Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Seg. Mon. Pond Depth (in/mo)	Mon. Precip. (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Burdock Perm. (cm/sec)
Mar	1980	35.00	18.35	0.7	8.29	2.82	1.98	0.00	7.13	0.00E+00
Apr	1980	35.00	22.28	0.85	14.77	1.72	3.3	8.11	6.08	7.95E-08
May	1980	35.00	38.69	1.4	17.66	3.33	4.4	8.11	8.47	7.95E-08
Jun	1980	35.00	23.86	0.91	16.65	1.99	5.76	8.11	4.77	7.95E-08
Jul	1980	35.00	3.15	0.12	5.84	0.97	7.08	8.11	-8.38	7.95E-08
Aug	1980	35.00	14.94	0.57	5.12	1.85	6.95	8.11	-8.09	7.95E-08
Sep	1980	35.00	0.28	0.01	0.09	0.39	5.5	8.11	-13.13	7.95E-08
Oct	1980	35.00	5.77	0.22	1.98	1.01	3.74	8.11	-8.87	7.95E-08
Nov	1980	35.00	3.67	0.14	1.28	0.82	2.03	8.11	-8.26	7.95E-08
Dec	1980	35.00	0.00	0	0.00	0.68	1.1	0.00	-0.42	0.00E+00
Jan	1981	35.00	0.00	0	0.00	0.08	0.82	0.00	-0.84	0.00E+00
Feb	1981	35.00	0.00	0	0.00	0.27	1.23	0.00	-0.98	0.00E+00
Mar	1981	35.00	5.77	0.22	1.98	0.68	1.98	0.00	0.68	0.00E+00
Apr	1981	35.00	1.31	0.05	1.11	0.74	3.3	8.11	-9.57	7.95E-08
May	1981	35.00	27.28	1.04	9.35	3.22	4.4	8.11	0.05	7.95E-08
Jun	1981	35.00	14.94	0.57	5.17	1.73	5.76	8.11	-6.97	7.95E-08
Jul	1981	35.00	22.80	0.87	7.82	2.54	7.08	8.11	-4.84	7.95E-08
Aug	1981	35.00	3.41	0.13	1.17	1	6.95	8.11	-12.89	7.95E-08
Sep	1981	35.00	0.00	0	0.00	0.16	5.5	8.11	-13.45	7.95E-08
Oct	1981	35.00	34.60	1.32	11.66	2.82	3.74	8.11	2.93	7.95E-08
Nov	1981	35.00	0.00	0	2.93	0.04	2.03	8.11	-7.17	7.95E-08
Dec	1981	35.00	0.00	0	0.00	0.1	1.1	0.00	-1.00	0.00E+00
Jan	1982	35.00	0.00	0	0.00	0.18	0.92	0.00	-0.74	0.00E+00
Feb	1982	35.00	0.00	0	0.00	0.05	1.23	0.00	-1.18	0.00E+00
Mar	1982	35.00	0.00	0	0.00	1.34	1.98	0.00	-0.64	0.00E+00
Apr	1982	35.00	2.36	0.09	0.81	1	3.3	8.11	-8.60	7.95E-08
May	1982	35.00	50.06	1.91	17.16	4.18	4.4	8.11	8.83	7.95E-08
Jun	1982	35.00	56.61	2.16	28.24	4.46	5.76	8.11	18.82	7.95E-08
Jul	1982	35.00	11.79	0.45	22.88	2.2	7.08	8.11	9.87	7.95E-08
Aug	1982	35.00	25.42	0.97	18.58	3.29	6.95	8.11	8.81	7.95E-08
Sep	1982	35.00	12.06	0.48	10.94	2.42	5.5	8.11	-0.25	7.95E-08
Oct	1982	35.00	7.08	0.27	2.43	1.27	3.74	8.11	-8.16	7.95E-08
Nov	1982	35.00	12.58	0.48	4.31	1.3	2.03	8.11	-4.53	7.95E-08
Dec	1982	35.00	0.00	0	0.00	0.2	1.1	0.00	-0.80	0.00E+00
Jan	1983	35.00	0.00	0	0.00	0.22	0.92	0.00	-0.70	0.00E+00
Feb	1983	35.00	0.00	0	0.00	0.21	1.23	0.00	-1.02	0.00E+00
Mar	1983	35.00	4.46	0.17	1.63	0.89	1.98	0.00	0.44	0.00E+00
Apr	1983	35.00	1.05	0.04	0.80	0.75	3.3	8.11	-9.87	7.95E-08
May	1983	35.00	11.27	0.43	3.88	1.85	4.4	8.11	-8.70	7.95E-08
Jun	1983	35.00	48.49	1.85	16.62	4.25	5.76	8.11	7.00	7.95E-08
Jul	1983	35.00	6.29	0.24	9.16	1.05	7.08	8.11	-4.89	7.95E-08
Aug	1983	35.00	33.81	1.29	11.59	3.31	6.95	8.11	-0.16	7.95E-08
Sep	1983	35.00	0.28	0.01	0.09	0.28	5.5	8.11	-13.24	7.95E-08
Oct	1983	35.00	4.46	0.17	1.53	1.6	3.74	8.11	-8.73	7.95E-08
Nov	1983	35.00	12.58	0.48	4.31	1.6	2.03	8.11	-4.23	7.95E-08
Dec	1983	35.00	0.00	0	0.00	0.05	1.1	0.00	-1.05	0.00E+00
Jan	1984	35.00	0.00	0	0.00	1.37	0.92	0.00	0.45	0.00E+00
Feb	1984	35.00	0.00	0	0.46	0.28	1.28	0.00	-0.65	0.00E+00
Mar	1984	35.00	0.28	0.01	0.09	0.8	1.98	0.00	-1.09	0.00E+00
Apr	1984	35.00	28.04	1.07	8.61	3.59	3.3	8.11	1.79	7.95E-08
May	1984	35.00	36.91	1.37	14.10	2.93	4.4	8.11	4.52	7.95E-08
Jun	1984	35.00	5.77	0.22	6.50	1.91	5.76	8.11	-5.47	7.95E-08
Jul	1984	35.00	9.70	0.37	3.32	2.38	7.08	8.11	-9.49	7.95E-08
Aug	1984	35.00	8.85	0.33	2.87	1.68	6.95	8.11	-10.42	7.95E-08
Sep	1984	35.00	0.00	0	0.00	0.4	5.5	8.11	-13.21	7.95E-08
Oct	1984	35.00	0.52	0.02	0.18	0.63	3.74	8.11	-11.04	7.95E-08
Nov	1984	35.00	4.46	0.17	1.53	0.57	2.03	8.11	-8.05	7.95E-08
Dec	1984	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1985	35.00	0.00	0	0.00	0.17	0.92	0.00	-0.75	0.00E+00
Feb	1985	35.00	0.00	0	0.00	0.57	1.23	0.00	-0.68	0.00E+00
Mar	1985	35.00	0.00	0	0.00	0.77	1.98	0.00	-1.21	0.00E+00
Apr	1985	35.00	47.44	1.81	16.28	3.15	3.3	8.11	8.00	7.95E-08
May	1985	35.00	2.62	0.1	8.90	1.05	4.4	8.11	-2.58	7.95E-08
Jun	1985	35.00	1.67	0.06	0.64	1.03	5.76	8.11	-12.30	7.95E-08
Jul	1985	35.00	2.38	0.09	0.81	1.2	7.08	8.11	-13.18	7.95E-08
Aug	1985	35.00	0.00	0	0.00	0.5	6.95	8.11	-14.56	7.95E-08
Sep	1985	35.00	12.32	0.47	4.22	1.99	5.5	8.11	-7.40	7.95E-08
Oct	1985	35.00	1.05	0.04	0.36	0.68	3.74	8.11	-10.81	7.95E-08
Nov	1985	35.00	0.00	0	0.00	0.22	2.03	8.11	-9.82	7.95E-08
Dec	1985	35.00	0.00	0	0.00	0.41	1.1	0.00	-0.89	0.00E+00
Jan	1986	35.00	0.00	0	0.00	1.83	0.92	0.00	0.71	0.00E+00
Feb	1986	35.00	0.00	0	0.71	1.06	1.23	0.00	0.54	0.00E+00
Mar	1986	35.00	0.00	0	0.84	0.52	1.98	0.00	-0.92	0.00E+00
Apr	1986	35.00	32.24	1.23	11.05	3.27	3.3	8.11	2.91	7.95E-08



2002-1988 Estimated Monthly Water Balance for Evap Pond--Burdock Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip. (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Burdock Perm. (cm/sec)
May	1986	35.00	8.39	0.32	5.79	1.07	4.4	8.11	-5.66	7.95E-06
Jun	1986	35.00	68.40	2.61	23.45	4.87	5.76	8.11	14.45	7.95E-06
Jul	1986	35.00	5.24	0.2	18.25	1.83	7.08	8.11	2.68	7.95E-06
Aug	1986	35.00	6.81	0.26	6.02	1.19	6.95	8.11	-8.85	7.95E-06
Sep	1986	35.00	18.08	0.69	6.20	3.52	5.5	8.11	-3.89	7.95E-06
Oct	1986	35.00	50.84	1.84	17.43	3.88	3.74	8.11	9.46	7.95E-06
Nov	1986	35.00	2.10	0.08	10.18	0.86	2.03	8.11	0.90	7.95E-06
Dec	1986	35.00	0.00	0	0.90	0.09	1.1	0.00	-0.11	0.00E+00
Jan	1987	35.00	0.00	0	0.00	0.13	0.92	0.00	-0.79	0.00E+00
Feb	1987	35.00	0.00	0	0.00	0.87	1.23	0.00	-0.36	0.00E+00
Mar	1987	35.00	3.15	0.12	1.08	2.22	1.98	0.00	1.32	0.00E+00
Apr	1987	35.00	4.98	0.19	3.03	0.69	3.3	8.11	-7.70	7.95E-06
May	1987	35.00	25.18	0.98	8.83	2.97	4.4	8.11	-0.82	7.95E-06
Jun	1987	35.00	0.79	0.03	0.27	0.69	5.76	8.11	-13.01	7.95E-06
Jul	1987	35.00	15.73	0.6	5.39	1.71	7.08	8.11	-8.09	7.95E-06
Aug	1987	35.00	2.36	0.09	0.81	1.04	6.95	8.11	-13.21	7.95E-06
Sep	1987	35.00	1.83	0.07	0.63	0.76	5.5	8.11	-12.22	7.95E-06
Oct	1987	35.00	0.26	0.01	0.09	0.42	3.74	8.11	-11.34	7.95E-06
Nov	1987	35.00	5.50	0.21	1.88	0.71	2.03	8.11	-7.65	7.95E-06
Dec	1987	35.00	0.26	0.01	0.09	0.26	1.1	0.00	-0.76	0.00E+00
Jan	1988	35.00	0.00	0	0.00	0.63	0.92	0.00	-0.29	0.00E+00
Feb	1988	35.00	0.00	0	0.00	0.21	1.28	0.00	-1.07	0.00E+00
Mar	1988	35.00	0.00	0	0.00	1.17	1.98	0.00	-0.81	0.00E+00
Apr	1988	35.00	1.57	0.06	0.54	0.63	3.3	8.11	-10.24	7.95E-06
May	1988	35.00	20.18	0.77	6.92	2.84	4.4	8.11	-2.95	7.95E-06
Jun	1988	35.00	40.36	1.54	13.84	2.76	5.76	8.11	2.75	7.95E-06
Jul	1988	35.00	23.33	0.89	10.74	2.18	7.08	8.11	-2.27	7.95E-06
Aug	1988	35.00	25.42	0.97	8.72	1.87	6.95	8.11	-4.48	7.95E-06
Sep	1988	35.00	1.05	0.04	0.38	0.84	5.5	8.11	-12.41	7.95E-06
Oct	1988	35.00	0.00	0	0.00	0.09	3.74	8.11	-11.76	7.95E-06
Nov	1988	35.00	0.26	0.01	0.09	0.52	2.03	8.11	-9.53	7.95E-06
Dec	1988	35.00	0.00	0	0.00	0.23	1.1	0.00	-0.87	0.00E+00
				4.29		15.62	44.00		30.50	

Assumes seepage is 0.00 for January, February, March and December due to frozen soils
 Trial is for bare soil, 314.5 acres irrigated area

Permeability value is geometric mean of three available permeability values from Burdock test pits, see
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