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Q200312100003

Scientific Notebooks No. 116: Nopal Analog
Sample Hydrologic Characterization
(09/19/1995 through 01/09/1997)

Nopal

21
150

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Kristi A. Meyer-James KT KMJ

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KMT

a/19/95

Initial List of New Nopal sub samples
and their measurements, (Pgs 8+9 accidentally skipped).
Except for samples labeled as XX# * B
all are shipped ^{undisturbed} chips cut with the small water saw.
the measurements therefore are not exact. Archimedes
displacement method should be completed for actual
volumes at the end of testing. — The B samples
are B size cores. $d = 5.01 \text{ cm}$.

Sample Id	9/14/95 KJ		
	w_1	w_2	L
498 * 2 * 1	2.300	1.715	0.755
498 * 2 * 2	1.715 2.725	2.085	0.810
498 * 2 * 3	2.360	2.020	0.670
498 * 2 * 4	2.615	2.340	0.925
498 * 2 * 5	2.210	2.080	0.835
505 * 1 * 1	2.850	2.555	0.715
505 * 1 * 2	2.515	2.330	0.550
505 * 1 * 3	2.495	2.255	0.590
505 * 1 * 4	2.790	2.695	0.610
505 * 1 * 5	2.765	2.585	0.780
505 * 1 * 6	2.760	2.590	0.585
505 * 1 * 7	2.540	2.490	0.740
505 * 1 * 8	2.785	2.540	0.570
505 * 1 * 9	2.120	2.400	0.640
505 * 1 * 10	2.680	2.710	0.745
505 * 1 * B1			0.91
505 * 1 * B2			2.445
506 * 1 * 1	2.270	2.300	0.565
506 * 1 * 2	2.385	2.270	0.785
506 * 1 * 3	2.290	1.985	0.650
506 * 1 * 4	2.965	2.010	0.605
506 * 1 * 5	2.920	2.190	0.610
506 * 1 * 6	2.550	2.300	0.745
506 * 1 * 7	2.745	1.955	0.715
506 * 1 * 8	2.565	2.230	0.620
506 * 1 * 9	2.700	2.035	0.660
506 * 1 * 10	3.010	2.180	0.620
506 * 1 * 11	2.500	2.475	0.670
506 * 1 * 12	2.810	2.335	0.760
506 * 1 * B1			2.715

KMT
a/19/95

0.670 9/14/95
 $d_1 = 4.85$ $d_2 = 4.56$

Sample	W ₁	W ₂	A
496-3-1	2.00	1.92	0.360 <i>Malik</i>
496*3*2	2.60	2.58	0.06 0.65
*3*3	2.225	1.745	0.845
*3*4	2.600	2.410	0.875
*3*5	2.010	2.095	0.765
496*3*B1			2.97
497*3*1	2.590	2.665	0.08 0.550 <i>1.55</i>
*2	2.48	2.830	0.705
*3	2.685	2.590	0.71
*4	2.53	2.620	0.635
*5	2.74	2.78	0.655
*6	2.28	2.955	0.62
*7	2.845	2.345	0.635
*8	2.03	2.94	0.67
497*3*B1			3.54
497*1*	2.92	2.000	0.915
*2	2.97	1.65	0.58
*3	2.55	2.67	0.56
*4	2.05	2.89	0.910
*5	2.56	2.800	0.75
*6	3.06	2.32	0.51 0.610 <i>0.610</i>
498*1*	3.09	1.91	0.62
*2	2.59	1.41	0.64
*3	2.10	1.97	0.78
*4	2.51	1.93	0.49

PMJ 9/19/95

SAMPLE ID	W ₁	W ₂	A
496*2*1	2.31	2.32	0.615
496*2*2	2.62	2.74	0.670
496*2*3	2.91	2.115	0.685
496*2*4	2.755	2.700	0.715
496*2*5	1.81	1.765	0.79
496*2*6	3.33	2.115	0.71
496*2*7	2.395	1.99	0.695
496*4*1	3.250	2.335	0.615
496*4*2	2.70	2.595	0.795
496*4*3	2.155	1.905	0.580
496*4*4	2.440	1.845	0.855
496*4*5	2.220	1.370	0.640
496*4*B1			1.60
498*3*1	2.555	2.245	0.660 <i>0.660</i>
498*3*2	3.310	1.525	0.68 0.860
498*3*3	2.840	2.085	0.510
498*3*4	2.285	2.320	0.685
498*3*5	2.395	2.360	0.545
498*3*6	2.510	2.30	0.745
498*3*7	2.700	2.60	0.685
498*3*8	2.70	2.60	0.715
497*2*1	3.060	1.995	0.740
497*2*2	2.870	1.555	0.800
497*2*3	2.890	2.400	0.860
497*2*4	2.770	2.635	0.745
497*2*5	3.000	1.990	0.780
497*2*6	2.775	2.700	0.680
497*2*B1			2.180
495*1*1	2.645	2.375	0.725
495*1*2	2.825	2.620	0.700
495*1*3	2.590	2.285	0.890
495*1*4	2.555	2.080	0.990
495*1*5	2.615	2.660	0.875
495*1*6	2.750	2.580	0.730
495*1*7	2.785	2.615	0.645
495*1*8	2.675	2.750	0.630
495*1*9	2.785	2.605	0.645
495*1*10	2.675	1.950	0.715
495*1*B1			1.495

PMJ 9/19/95

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Sample

 w_1 w_2 h

498 * 1 * 5

2.66

1.86

0.75

498 * 1 * 6

2.61

2.24

0.62

498 * 1 * 7

2.87

1.62

0.70

498 * 1 * 8

2.43

1.99

0.68

498 * 1 * B1

2.08

496 * 1 * 1

1.96

2.385

0.75

496 * 1 * 2

2.54

2.135

0.865

496 * 1 * 3

2.60

2.15

0.84

496 * 1 * 4

2.95

1.645

0.8

496 * 1 * 5

2.4

2.25

0.875

496 * 1 * 6

2.67

2.195

0.69

496 * 1 * 7

2.23

1.97

0.695

496 * 1 * 8

1.965

1.765

0.67

496 * 1 * 9

2.3

1.93

0.65

496 * 1 * 10

2.87

2.42

0.765

496 * 1 * B1

0.745

507 * 1

2.73

2.58

0.845

507 * 2

2.715

2.385

0.645

507 * 3

2.740

2.490

0.530

507 * 4

2.745

2.620

0.670

507 * 5

2.9

2.545

0.395

507 * 6

2.835

2.70

0.7

507 * 7

2.640

2.785

0.585

507 * 8

2.615

2.115

0.7

507 * 9

2.620

2.435

0.680

507 * 10

2.565

2.415

0.845

507 * 11

2.720

2.650

0.735

507 * 12

2.860

2.525

0.690

507 * B1

1.120

507 * B2

3.755

SAMPLE ID

 w_1 w_2 h

498 * 4 * 1

2.820

2.515

0.775

498 * 4 * 2

2.065

1.660

0.715

498 * 4 * 3

2.620

2.460

0.710

498 * 4 * 4

2.740

2.570

0.630

498 * 4 * 5

2.855

2.770

0.715

498 * 4 * 6

2.220

1.900

0.605

498 * 4 * 7

2.820

2.415

0.710

498 * 4 * 8

2.730

2.620

0.705

498 * 4 * 9

2.860

2.275

0.765

498 * 4 * 10

2.410

2.035

0.795

504 * 1 * 1

2.740

2.085

0.770

504 * 1 * 2

3.2

1.8

1.0

504 * 1 * 3

2.865

2.180

0.815

504 * 1 * 4

2.8

1.7

0.6

504 * 1 * 5

3.050

2.080

0.850

504 * 1 * 6

1.990

2.4

0.755

504 * 1 * 7

504 * 1 * 8

Volume

(using previous measurements)

SAMPLE ID	width1	width2	height	vol (cm ³)
496*3*1	2.000	1.920	0.360	1.382
496*3*2	2.600	2.580	0.650	4.360
496*3*3	2.225	1.745	0.845	3.281
496*3*4	2.600	2.410	0.875	5.483
496*3*5	2.010	2.095	0.765	3.221
496*3*B1		5.010	2.970	58.549
497*3*1	2.590	2.665	0.550	3.796
497*3*2	2.480	2.830	0.705	4.948
497*3*3	2.685	2.590	0.710	4.937
497*3*4	2.530	2.620	0.650	4.309
497*3*5	2.740	2.780	0.655	4.989
497*3*6	2.280	2.955	0.620	4.177
497*3*7	2.845	2.345	0.635	4.236
497*3*8	2.030	2.940	0.670	3.999
497*3*B1		5.010	3.540	69.786
497*1*1	2.920	2.000	0.915	5.344
497*1*2	2.970	1.650	0.580	2.842
497*1*3	2.550	2.670	0.560	3.813
497*1*4	2.050	2.890	0.910	5.391
497*1*5	2.560	2.800	0.750	5.376
497*1*6	3.060	2.320	0.610	4.331
498*1*1	3.090	1.910	0.620	3.659
498*1*2	2.590	1.410	0.640	2.337
498*1*3	2.100	1.970	0.780	3.227
498*1*4	2.510	1.930	0.490	2.374
498*1*5	2.660	1.860	0.750	3.711
498*1*6	2.610	2.240	0.620	3.625
498*1*7	2.870	1.620	0.700	3.255
498*1*8	2.430	1.990	0.680	3.288
498*1*B1		5.010	2.080	41.004
496*2*1	2.810	2.320	0.615	4.009
496*2*2	2.740	2.635	0.670	4.837
496*2*3	2.910	2.115	0.685	4.216
496*2*4	2.755	2.700	0.715	5.319
496*2*5	1.810	1.765	0.790	2.524
496*2*6	3.330	2.115	0.710	5.000
496*2*7	2.395	1.990	0.695	3.312
496*4*1	3.250	2.335	0.615	4.667
496*4*2	2.700	2.595	0.795	5.570
496*4*3	2.155	1.905	0.580	2.381
496*4*4	2.440	1.845	0.855	3.849
496*4*5	2.220	1.370	0.640	1.946
496*4*B1		5.010	1.600	31.542

Not
FINAL
VOLUME

9/19/95
jms

SAMPLE	w ₁	w ₂	h	vol cm ³
498*3*1	2.555	2.245	0.660	3.786
498*3*2	3.310	1.525	0.860	4.341
498*3*3	2.840	2.085	0.510	3.020
498*3*4	2.285	2.320	0.685	3.631
498*3*5	2.395	2.360	0.545	3.080
498*3*6	2.510	2.300	0.745	4.301
498*3*7	2.700	2.600	0.685	4.809
498*3*8	2.700	2.600	0.715	5.019
495*1*1	2.645	2.375	0.725	4.554
495*1*2	2.825	2.620	0.700	5.181
495*1*3	2.590	2.285	0.890	5.267
495*1*4	2.555	2.080	0.990	5.261
495*1*5	2.615	2.660	0.875	6.086
495*1*6	2.580	2.480	0.730	4.671
495*1*7	2.615	2.275	0.645	3.837
495*1*8	2.750	2.660	0.630	4.608
495*1*9	2.785	2.605	0.645	4.679
495*1*10	2.675	1.950	0.715	3.730
495*1*B1		5.010	1.495	29.472
497*2*1	3.060	1.995	0.740	4.517
497*2*2	2.870	1.555	0.800	3.570
497*2*3	2.890	2.400	0.860	5.965
497*2*4	2.770	2.635	0.745	5.438
497*2*5	3.000	1.990	0.780	4.657
497*2*6	2.775	2.700	0.680	5.095
497*2*B1		5.010	2.180	42.976
498*4*1	2.820	2.515	0.775	5.497
498*4*2	2.065	1.660	0.715	2.451
498*4*3	2.620	2.460	0.710	4.576
498*4*4	2.740	2.570	0.630	4.436
498*4*5	2.855	2.770	0.715	5.654
498*4*6	2.220	1.900	0.605	2.552
498*4*7	2.820	2.415	0.710	4.835
498*4*8	2.730	2.620	0.705	5.043
498*4*9	2.860	2.275	0.765	4.977
498*4*10	2.410	2.035	0.795	3.899
504*1*1	2.740	2.085	0.770	4.399
504*1*2	3.200	1.800	1.000	5.760
504*1*3	2.865	2.180	0.815	5.090
504*1*4	2.800	1.700	0.600	2.856
504*1*5	3.050	2.080	0.850	5.392
504*1*6	1.990	2.400	0.755	3.606
504*1*7				0.000
504*1*8				0.000
496*1*1	1.960	2.385	0.750	3.506

9/19/95
KMS

9/19/95
KMS

SAMPLE	w ₁	w ₂	h	vol cm ³
496*1*2	2.540	2.135	0.865	4.691
496*1*3	2.600	2.150	0.840	4.696
496*1*4	2.950	1.645	0.800	3.882
496*1*5	2.400	2.250	0.875	4.725
496*1*6	2.670	2.195	0.690	4.044
496*1*7	2.230	1.970	0.695	3.053
496*1*8	1.965	1.765	0.670	2.324
496*1*9	2.300	1.930	0.765	3.396
496*1*10	2.870	2.420	0.745	5.174
496*1*B1		5.010	3.735	73.630
507*1	2.730	2.580	0.845	5.952
507*2	2.715	2.385	0.645	4.177
507*3	2.740	2.490	0.530	3.616
507*4	2.745	2.620	0.670	4.819
507*5	2.900	2.545	0.395	2.915
507*6	2.835	2.700	0.700	5.358
507*7	2.640	2.785	0.585	4.301
507*8	2.615	2.115	0.700	3.872
507*9	2.620	2.435	0.680	4.338
507*10	2.565	2.415	0.845	5.234
507*11	2.720	2.650	0.735	5.298
507*12	2.860	2.525	0.690	4.983
507*B1		5.010	1.120	22.079
507*B2		5.010	3.755	74.024
498*2*1	2.300	1.715	0.755	2.978
498*2*2	2.725	2.085	0.810	4.602
498*2*3	2.360	2.020	0.670	3.194
498*2*4	2.615	2.340	0.925	5.660
498*2*5	2.210	2.080	0.835	3.838
505*1*1	2.850	2.555	0.715	5.206
505*1*2	5.515	2.330	0.550	7.067
505*1*3	2.495	2.255	0.590	3.319
505*1*4	2.790	2.695	0.610	4.587
505*1*5	2.765	5.585	0.780	12.045
505*1*6	2.765	2.590	0.585	4.189
505*1*7	5.540	2.490	0.740	10.208
505*1*8	2.785	2.540	0.670	4.740
505*1*9	2.120	2.400	0.640	3.256
505*1*10	6.680	2.710	0.745	13.487
505*1*B1		4.705	0.910	15.822
505*1*B2		5.010	2.445	48.200
506*1*1	2.270	2.300	0.565	2.950
506*1*2	2.385	2.270	0.785	4.250
506*1*3	2.290	1.985	0.650	2.955
506*1*4	2.965	2.010	0.605	3.606
506*1*5	2.920	2.190	0.610	3.901
506*1*6	2.550	2.300	0.745	4.369

Volume

Sample	w ₁	w ₂	h	vol cm ³
506*1*7	2.745	1.955	0.715	3.837
506*1*8	2.565	2.230	0.620	3.546
506*1*9	2.700	2.035	0.660	3.626
506*1*10	3.010	2.180	0.620	4.068
506*1*11	2.500	2.475	0.670	4.146
506*1*12	2.810	2.335	0.760	4.987
506*1*B1		5.010	2.715	53.522

9/26/95
KMF

KMF 9/26/95 NaCl Solution:

A saturated soln of NaCl was made according to procedures located in Lab Book 078 page 296.
Lot # of source reagent (NaCl) is 935604
Expiration dates do not apply to this solution or reagent.

KMF 9/21/95

Received new bottle of KCl. Lot # 950985

9/5/97

This project met an
unlikely death at the
hands of OMB and
the U.S. Congress.

E.C. Perry
1/2/97