

Pickard Hall Basement Dose Rate Measurements

Location	Distance	NaI Static (cpm)	Bicron Instantaneous Measurements (µRem/hr)													Corrected Mean	Annual Occupancy (hrs)	
			1	2	3	4	5	6	7	8	9	10	STDEV	Max	Mean		25 mrem/yr	100 mrem/yr
1	1 m	7,147	5	5	6	5	6	6	6	5	5	6	0.5	6	5.5	-1.2	>2500	>2500
2	1 m	8,298	8	9	10	12	11	9	8	8	8	11	1.5	12	9.4	2.7	>2500	>2500
3	1 m	12,856	11	13	12	12	13	14	16	16	15	16	1.9	16	13.8	7.1	>2500	>2500
4	1 m	161,124	70	70	75	70	70	65	70	70	75	75	3.2	75	71	64.3	389	1,555
5	1 m	73,344	50	45	45	50	50	50	50	50	50	50	2.1	50	49	42.3	591	2,364
6	1 m	65,160	30	30	35	35	35	35	35	40	35	35	2.8	40	34.5	27.8	899	>2500
7	1 m	150,023	20	20	20	20	20	20	20	20	15	20	1.6	20	19.5	12.8	1,953	>2500
8	1 m	13,806	10	10	15	10	10	10	15	15	15	15	2.6	15	12.5	5.8	>2500	>2500
9	1 m	11,211	13	11	11	10	12	12	12	11	10	11	0.9	13	11.3	4.6	>2500	>2500
10	1 m	22,920	50	50	50	45	45	40	40	45	45	45	3.7	50	45.5	38.8	644	>2500
11	1 m	33,517	40	35	30	35	35	35	30	30	30	30	3.5	40	33	26.3	951	>2500
12	1m	7,720	7	6	6	6	6	5	6	8	7	7	0.8	8	6.4	-0.3	>2500	>2500
13	1 m	10,020	10	11	12	11	10	9	11	10	13	11	1.1	13	10.8	4.1	>2500	>2500
14	1 m	10,133	9	9	10	9	10	9	9	9	10	11	0.7	11	9.5	2.8	>2500	>2500
15	1 m	7,841	8	7	7	7	8	9	11	11	11	11	1.8	11	9	2.3	>2500	>2500
16	1 m	7,256	8	9	8	8	8	7	7	7	8	8	0.6	9	7.8	1.1	>2500	>2500
17	1 m	142,966	19	19	19	18	19	20	20	25	25	20	2.5	25	20.4	13.7	1,825	>2500
18	1m	123,091	25	25	20	20	20	20	20	20	20	20	2.1	25	21	14.3	1,748	>2500
19	1 m	18,003	8	9	9	9	8	9	9	11	11	12	1.4	12	9.5	2.8	>2500	>2500
20	1 m	6,725	10	8	9	7	8	11	9	10	8	10	1.2	11	9	2.3	>2500	>2500
21	1 m	5,992	6	5	5	6	5	5	4	4	5	4	0.7	6	4.9	-1.8	>2500	>2500
22	1 m	17,407	35	30	30	30	25	25	30	20	25	25	4.2	35	27.5	20.8	1,202	>2500
23	1 m	36,099	20	20	20	20	15	20	20	20	15	20	2.1	20	19	12.3	2,033	>2500
24	1 m	30,981	25	25	25	25	20	25	25	25	20	20	2.4	25	23.5	16.8	1,488	>2500
25	1 m	39,529	20	20	19	20	20	18	20	20	19	19	0.7	20	19.5	12.8	1,953	>2500
26	1 m	168,826	60	60	65	60	60	60	60	60	60	60	1.6	65	60.5	53.8	465	1,859
27	1 m	26,782	30	30	25	25	25	25	25	25	25	25	2.1	30	26	19.3	1,295	>2500
28	1 m	53,957	20	22	20	20	20	20	20	20	18	20	0.9	22	20	13.3	1,880	>2500
29	1 m	49,477	30	28	30	28	28	30	30	30	30	28	1.0	30	29.2	22.5	1,111	>2500
30	1 m	12,812	13	15	15	14	14	13	13	14	15	15	0.9	15	14.1	7.4	>2500	>2500
31	1 m	17,973	14	14	13	13	15	14	19	17	17	17	2.1	19	15.3	8.6	>2500	>2500
32	1m	14,265	15	15	15	16	14	16	17	17	18	17	1.2	18	16	9.3	>2500	>2500
33	1 m	467,134	105	110	110	110	110	115	115	110	115	115	3.4	115	111.5	104.8	239	954
34	1 m	24,188	40	40	40	40	35	40	40	35	40	40	2.1	40	39	32.3	774	>2500
35	1 m	770,540	70	70	75	80	75	75	75	75	80	75	3.3	80	75	68.3	366	1,464
36	1 m	242,054	55	55	60	60	60	65	60	60	60	60	2.8	65	59.5	52.8	473	1,894
37	1 m	305,400	120	115	115	120	120	120	120	120	120	125	2.8	125	119.5	112.8	222	887
38	1m	59,661	60	60	60	65	65	65	65	60	60	60	2.6	65	62	55.3	452	1,808
39	1 m	21,049	20	25	30	25	28	30	28	30	30	28	3.2	30	27.4	20.7	1,208	>2500
40	1 m	130,374	20	20	18	18	20	20	20	18	15	18	1.6	20	18.7	12	2,083	>2500

Mean dose rates are corrected by subtracting a background rate of 6.7 uRem/hr based on the mean of background dose rates measured in the basement of Switzler Hall.



Pickard Hall Basement Dose Rate Measurements

Location	Distance	NaI Static (cpm)	Bicron Instantaneous Measurements (µRem/hr)													Annual Occupancy (hrs)		
			1	2	3	4	5	6	7	8	9	10	STDEV	Max	Mean	Corrected Mean	25 mrem/yr	100 mrem/yr
41	1 m	44,080	16	15	15	18	15	20	20	20	20	20	2.4	20	17.9	11.2	2,232	>2500
42	1 m	61,387	20	20	20	20	18	20	20	18	20	20	0.8	20	19.6	12.9	1,938	>2500
43	1 m	34,732	15	20	15	15	15	20	15	20	15	15	2.4	20	16.5	9.8	>2500	>2500
44	1 m	26,855	10	11	15	15	15	15	15	15	10	15	2.3	15	13.6	6.9	>2500	>2500
45	1 m	31,441	12	15	15	20	15	15	20	15	15	20	2.8	20	16.2	9.5	>2500	>2500
46	1 m	26,312	14	15	15	15	18	18	16	16	15	16	1.3	18	15.8	9.1	>2500	>2500
47	1 m	18,535	16	14	13	13	11	11	11	11	12	14	1.7	16	12.6	5.9	>2500	>2500
48	1 m	8,858	6	6	7	7	6	7	8	10	10	9	1.6	10	7.6	0.9	>2500	>2500
49	1 m	19,093	16	15	15	20	20	15	15	15	15	15	2.1	20	16.1	9.4	>2500	>2500
50	1 m	21,914	20	20	20	15	15	15	15	10	15	20	3.4	20	16.5	9.8	>2500	>2500
51	1 m	32,638	20	20	20	20	20	22	25	22	25	20	2.1	25	21.4	14.7	1,701	>2500
52	1m	9,853																
53	1 m	13,005																
54	1 m	20,463																
55	1 m	3,992																
56	1 m	18,025	17	11	10	11	10	9	10	10	9	9	2.4	17	10.6	3.9	>2500	>2500
57	1 m	138,502	14	15	17	19	19	18	18	18	17	19	1.7	19	17.4	10.7	2,336	>2500
58	1m	5,766	7	6	6	5	6	6	6	7	7	8	0.8	8	6.4	-0.3	>2500	>2500
59	1 m	6,551	7	7	6	6	5	6	6	5	5	6	0.7	7	5.9	-0.8	>2500	>2500
60	1 m	7,603	5	5	5	5	4	5	6	8	8	8	1.5	8	5.9	-0.8	>2500	>2500

Mean dose rates are corrected by subtracting a background rate of 6.7 uRem/hr based on the mean of background dose rates measured in the basement of Switzler Hall.



Pickard Hall 1st Floor Dose Rate Measurements

Location	Distance	NaI Static (cpm)	Bicron Instantaneous Measurements (µRem/hr)													Annual Occupancy (hrs)		
			1	2	3	4	5	6	7	8	9	10	STDEV	Max	Mean	Corrected Mean	25 mrem/yr	100 mrem/yr
1	1 m	9,442	10	8	7	7	7	8	9	9	12	11	1.8	12	8.8	2.1	>2500	>2500
2	1 m	15,132	10	10	9	9	9	10	11	12	12	11	1.2	12	10.3	3.6	>2500	>2500
3	1 m	10,206	13	12	11	11	10	11	10	9	9	10	1.3	13	10.6	3.9	>2500	>2500
4	1 m	14,039	9	9	9	9	12	11	13	13	13	14	2.0	14	11.2	4.5	>2500	>2500
5	1 m	11,433	12	11	12	11	11	12	12	13	13	14	1.0	14	12.1	5.4	>2500	>2500
6	1 m	9,547	10	10	11	11	10	9	9	8	8	9	1.1	11	9.5	2.8	>2500	>2500
7	1 m	18,971	16	16	15	15	15	15	16	14	15	14	0.7	16	15.1	8.4	>2500	>2500
8	1 m	14,614	12	11	11	12	11	13	15	13	12	12	1.2	15	12.2	5.5	>2500	>2500
9	1 m	13,895	12	11	11	11	11	10	11	10	9	10	0.8	12	10.6	3.9	>2500	>2500
10	1 m	19,722	15	16	16	16	17	17	16	15	14	13	1.3	17	15.5	8.8	>2500	>2500
11	1 m	24,252	18	19	19	20	19	19	20	19	18	19	0.7	20	19	12.3	2,033	>2500
12	1m	19,190	17	15	16	16	17	15	16	15	17	16	0.8	17	16	9.3	>2500	>2500
13	1 m	19,616	15	15	15	14	13	13	13	16	17	18	1.7	18	14.9	8.2	>2500	>2500
14	1 m	21,754	16	17	18	17	17	16	15	17	15	16	1.0	18	16.4	9.7	>2500	>2500
15	1 m	23,317	15	14	15	15	16	16	17	17	15	14	1.1	17	15.4	8.7	>2500	>2500
16	1 m	22,989	19	19	19	18	20	19	20	19	19	19	0.6	20	19.1	12.4	2,016	>2500
17	1 m	22,185	15	15	14	14	14	15	15	15	14	14	0.5	15	14.5	7.8	>2500	>2500
18	1m	18,440	14	14	15	14	14	15	15	15	14	14	0.5	15	14.4	7.7	>2500	>2500
19	1 m	16,616	13	14	14	15	15	15	15	14	13	14	0.8	15	14.2	7.5	>2500	>2500
20	1 m	14,206	11	12	15	14	15	14	12	13	8	13	2.1	15	12.7	6	>2500	>2500
21	1 m	14,510	12	12	13	12	11	12	11	11	12	13	0.7	13	11.9	5.2	>2500	>2500
22	1 m	14,029	17	17	17	16	15	15	16	17	17	17	0.8	17	16.4	9.7	>2500	>2500
23	1 m	14,555	10	9	10	9	9	10	9	10	10	10	0.5	10	9.6	2.9	>2500	>2500
24	1 m	10,888	10	9	9	8	8	9	9	8	8	9	0.7	10	8.7	2	>2500	>2500
25	1 m	5,676	6	6	5	5	7	8	6	6	5	6	0.9	8	6	-0.7	>2500	>2500
26	1 m	8,507	6	8	7	7	6	6	7	6	7	7	0.7	8	6.7	0	>2500	>2500
27	1 m	10,680	10	10	9	9	9	8	8	9	9	9	0.7	10	9	2.3	>2500	>2500
28	1 m	9,916	10	12	11	10	9	10	11	11	12	10	1.0	12	10.6	3.9	>2500	>2500
29	1 m	8,908	8	9	8	8	10	11	10	10	10	10	1.1	11	9.4	2.7	>2500	>2500
30	1 m	13,617	12	11	11	10	10	9	9	10	9	9	1.1	12	10	3.3	>2500	>2500
31	1 m	10,736	11	12	12	12	12	11	12	11	11	12	0.5	12	11.6	4.9	>2500	>2500

Mean dose rates are corrected by subtracting a background rate of 6.7 uRem/hr based on the mean of background dose rates measured in the basement of Switzler Hall.



Pickard Hall 2nd Floor Dose Rate Measurements

Location	Distance	NaI Static (cpm)	Bicron Instantaneous Measurements (μRem/hr)														Annual Occupancy (hrs)	
			1	2	3	4	5	6	7	8	9	10	STDEV	Max	Mean	Corrected Mean	25 mrem/yr	100 mrem/yr
1	1 m	22,894	20	25	20	20	15	15	15	10	10	15	4.7	25	16.5	9.8	>2500	>2500
2	1 m	26,338	25	25	20	20	25	20	20	20	20	20	2.4	25	21.5	14.8	1,689	>2500
3	1 m	40,657	20	20	20	20	20	15	20	25	20	25	2.8	25	20.5	13.8	1,812	>2500
4	1 m	44,695	20	20	20	25	25	25	25	20	25	25	2.6	25	23	16.3	1,534	>2500
5	1 m	20,534	15	20	15	15	20	20	15	15	20	20	2.6	20	17.5	10.8	2,315	>2500
6	1 m	26,582	18	18	17	18	19	20	19	18	18	20	1.0	20	18.5	11.8	2,119	>2500
7	1 m	19,162	15	17	19	18	17	16	18	18	19	19	1.3	19	17.6	10.9	2,294	>2500
8	1 m	18,484	20	20	19	18	19	19	18	17	18	19	0.9	20	18.7	12	2,083	>2500
9	1 m	20,229	30	30	25	25	30	20	20	20	25	20	4.4	30	24.5	17.8	1,404	>2500
10	1 m	15,764	10	10	15	15	15	15	15	10	15	10	2.6	15	13	6.3	>2500	>2500
11	1 m	21,018	10	10	15	10	10	10	15	10	10	10	2.1	15	11	4.3	>2500	>2500
12	1m	14,093	14	13	14	13	13	13	13	14	14	13	0.5	14	13.4	6.7	>2500	>2500
13	1 m	13,964	15	16	15	13	13	12	12	10	12	15	1.9	16	13.3	6.6	>2500	>2500
14	1 m	130,022	17	18	18	17	16	16	18	19	18	17	1.0	19	17.4	10.7	2,336	>2500
15	1 m	8,794	8	8	7	9	9	9	11	10	10	11	1.3	11	9.2	2.5	>2500	>2500
16	1 m	10,277	10	9	9	10	10	10	11	11	12	10	0.9	12	10.2	3.5	>2500	>2500
17	1 m	12,140	12	12	11	11	11	10	11	14	12	11	1.1	14	11.5	4.8	>2500	>2500
18	1m	11,259	14	14	12	10	11	11	10	11	10	10	1.6	14	11.3	4.6	>2500	>2500
19	1 m	9,577	9	11	10	10	9	9	9	10	10	11	0.8	11	9.8	3.1	>2500	>2500
20	1 m	11,078	13	12	12	11	10	9	10	9	8	10	1.6	13	10.4	3.7	>2500	>2500
21	1 m	12,153	11	12	12	10	11	10	10	11	13	13	1.2	13	11.3	4.6	>2500	>2500
22	1 m	11,429	13	12	12	13	15	16	14	13	12	14	1.3	16	13.4	6.7	>2500	>2500

Mean dose rates are corrected by subtracting a background rate of 6.7 uRem/hr based on the mean of background dose rates measured in the basement of Switzler Hall.



Pickard Hall Attic Dose Rate Measurements

Location	Distance	NaI Static (cpm)	Bicron Instantaneous Measurements (μRem/hr)													Corrected Mean	Annual Occupancy (hrs)	
			1	2	3	4	5	6	7	8	9	10	STDEV	Max	Mean		25 mrem/yr	100 mrem/yr
1	1 m	102,062	17	17	12	12	11	15	17	19	19	19	3.1	19	15.8	9.1	>2500	>2500
2	1 m	11,549	11	10	10	10	10	10	10	10	11	11	0.5	11	10.3	3.6	>2500	>2500
3	1 m	172,454	32	30	28	28	27	20	20	18	20	18	5.4	32	24.1	17.4	1,437	>2500
4	1 m	14,031																
5	1 m	7,509	7	6	6	6	8	7	7	6	6	6	0.7	8	6.5	-0.2	>2500	>2500
6	1 m	16,887																
7	1 m	12,696	10	9	8	11	11	12	12	12	10	10	1.4	12	10.5	3.8	>2500	>2500
8	1 m	4,833	6	8	4	5	4	5	6	5	5	6	1.2	8	5.4	-1.3	>2500	>2500
9	1 m	8,699	7	7	6	7	6	6	7	7	7	6	0.5	7	6.6	-0.1	>2500	>2500
10	1 m	9,243	9	10	9	9	10	8	10	9	9	9	0.6	10	9.2	2.5	>2500	>2500
11	1 m	13,428	12	11	12	11	11	10	10	11	10	11	0.7	12	10.9	4.2	>2500	>2500
12	1m	15,894	15	13	13	12	12	11	12	13	13	14	1.1	15	12.8	6.1	>2500	>2500
13	1 m	19,959	10	9	8	8	8	7	9	10	10	9	1.0	10	8.8	2.1	>2500	>2500
14	1 m	10,327	7	7	7	6	8	9	10	8	8	7	1.2	10	7.7	1	>2500	>2500
15	1 m	12,457	7	9	9	10	11	10	9	9	9	8	1.1	11	9.1	2.4	>2500	>2500
16	1 m	11,521	9	9	8	10	11	12	11	11	10	9	1.2	12	10	3.3	>2500	>2500
17	1 m	9,448	12	10	9	10	12	8	7	9	8	11	1.7	12	9.6	2.9	>2500	>2500
18	1m	9,143	7	8	10	9	9	9	10	9	9	8	0.9	10	8.8	2.1	>2500	>2500
19	1 m	6,347	7	7	7	6	6	6	5	5	6	5	0.8	7	6	-0.7	>2500	>2500
20	1 m	9,688	8	7	7	8	9	8	8	7	8	9	0.7	9	7.9	1.2	>2500	>2500

Mean dose rates are corrected by subtracting a background rate of 6.7 uRem/hr based on the mean of background dose rates measured in the basement of Switzler Hall.