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

Nopal

21
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Kristi A. Meyer-James KJ KMJ

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KMJ
9/19/95

Initial List of New Nopal subsamples and their measurements. (Pgs 8 + 9 accidentally skipped). Except for samples labeled as XX * _ * B all are ~~chipped~~ KMJ 9/19/95 chips cut with the small water saw the measurements therefor are not exact. Archemedes displacement method should be completed for actual volumes at the end of testing. — The B samples are B size cores. i.e. d = 5.01 cm.

9/14/95 KJ

Sample Id	w_1	w_2	h
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~~ 0.670 9/19/95 KMJ
505*1*9	2.120	2.400	0.640
505*1*10	2.680	2.710	0.745
505*1*B1			0.91 d_1=4.85 d_2 4.56
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

KMJ
9/19/95

sample	w_1	w_2	h	
496-3-1	2.00	1.92	0.360	
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	chipped corner
496*3*B1			2.97	1.55 ~~[illegible]~~ flat edge
497*3*1	2.590	2.665	~~0.06~~ 0.550	
*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	
498*1*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	

MMJ 9/19/95

SAMPLE ID	w_1	w_2	h
496*2*1	2.81	2.32	0.615
496*2*2	~~2.67~~ 2.74	2.635	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
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	2.480	0.730
495*1*7	~~2.785~~ 2.615	2.275	0.645
495*1*8	~~2.675~~ 2.750	2.660	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

MMJ 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	9/19/95 ~~0.6~~ 0.765
496*1*10	2.87	242	9/19/95 ~~1.93~~ 0.745
496*1*B1			3.735
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

9/19/95

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			

22-144 200 SHEETS

Volume
(using previous measurements.)

Not FINAL VOLUME

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

9/19/95
(MN)

Volume

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

Volume

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	w1	w2	h	Volcm³	
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 KMJ

KMJ 9/26/95 NaCl Solution:

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

KMJ 9/27/95
Received new bottle of KCl. Lot # 950985

RCP 1/5/97

This project met an untimely death at the hands of OMB and the U.S. Congress.
R. C. Perry
1/5/97