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Preliminary Data From an Instantaneous Profile Test Conducted Near the Mixed Waste Landfill, Technical Area 3, Sandia National Laboratories/New Mexico

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Prepared by
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**Preliminary Data From an Instantaneous Profile Test
Conducted Near the Mixed Waste Landfill,
Technical Area 3,
Sandia National Laboratories/New Mexico**

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Abstract

This paper presents data from an instantaneous profile test conducted near the Sandia National Laboratories/New Mexico Mixed Waste Landfill in Technical Area 3. The test was performed from December 1993 through 1995 as part of the Environmental Restoration Project's Phase 2 RCRA Facility Investigation of the Mixed Waste Landfill. The purpose of the test was to measure the unsaturated hydraulic properties of soils near the Mixed Waste Landfill. The instantaneous profile test and instrumentation are described, and the pressure and moisture content data from the test are presented. These data may be useful for understanding the unsaturated hydraulic properties of soils in Technical Area 3 and for model validation, verification, and calibration.

Acknowledgments

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1.0 Introduction

1.1 The Instantaneous Profile Test

An instantaneous profile (IP) test was conducted approximately 150 m (500 ft) west of the Mixed Waste Landfill (MWL) in Technical Area 3 (TA-3) per the methods described by Hillel et al, (1972) and Watson (1966). The test was conducted from December 1993 and continued into fiscal year 1995 as part of the Sandia National Laboratories/New Mexico (SNL/NM) Environmental Restoration (ER) Project's Phase 2 RCRA Facility Investigation (RFI) of the MWL (SNL/NM, 1993). The objectives of the test were to measure the relationships between unsaturated hydraulic conductivity, pressure head, and moisture content for soil horizons to a depth of 1.8 m (6 ft) below ground surface (bgs).

The IP test was conducted for a period of nearly one and a half years, during which time an extensive data set was compiled. This paper presents the pressure head and moisture content data collected from December 1993 through 1994. These data were collected using a CPN Model 503DR neutron moisture meter, a Sentry 200 resonant frequency capacitance (RFC) probe, tensiometers, buried RFC probes, and time domain reflectometry (TDR) probes. The data set in this report is limited to data collected manually by neutron logging and to the corresponding soil tension values measured with tensiometers. An extensive data set was also collected using TDR and RFC probes, and may be presented in a later report.

The IP test consisted of flooding a 4.7 m by 4.7 m (15.5 ft by 15.5 ft) soil plot with 20,300 liters (5494 gallons) of water over a period of 47 hours (2840 minutes). The wetting front was monitored using the instrumentation listed above. When the entire plot reached near-saturation to a depth of 1.8 m (6 ft), the water supply was shut off and drainage from the IP plot was monitored. Due to entrapped air, it is unlikely that the entire soil profile was completely saturated at the end of the wetting phase, therefore, the term field-saturation will be used in this report.

1.2 Methodology

The IP test was originally proposed by Richards and Weeks (1953), Ogata and Richards (1957), and later by Watson (1966) as a method of measuring the relationship

between water potential and hydraulic conductivity. This method is based upon monitoring the transient internal drainage of a profile. The relationship between water potential and hydraulic conductivity is determined by measuring the rate of drainage and water potential, and then solving a form of Richard's equation to obtain the unsaturated hydraulic conductivity as a function of water potential.

The IP method is superior for obtaining *in situ* measurements of unsaturated hydraulic conductivity as a function of moisture content, because it eliminates the disturbance of soil structure from sampling and the resulting changes in soil hydrologic parameters. This approach requires frequent, simultaneous measurements of soil tension and volumetric moisture content under transient drainage conditions. These data are used to obtain instantaneous values of the potential gradients and fluxes operating within the profile, and to calculate the resulting unsaturated hydraulic conductivities.

2.0 The Instantaneous Profile Test Site

2.1 Location

The IP test was conducted in a non-contaminated area approximately 150 m (500 ft) west of the MWL in TA-3 (Figure 1).

2.2 Plot Construction

The IP site is a 4.73 m (15.5 ft) by 4.73 m (15.5 ft) soil plot surrounded by a 30 cm (1 ft) high concrete berm (Figure 2). Beneath the concrete berm on four sides of the plot are vertical no-flow boundary walls constructed of a bentonite-soil mixture to prevent horizontal flow from the plot, and to limit infiltration to one-dimensional vertical flow.

The no-flow boundary walls were constructed using a backhoe. Four interconnecting trenches were excavated to a depth of 1.8 m (6 ft) and a width of 30 cm (1 ft). Bentonite was mixed with the excavated soil to form an approximate 10% bentonite-soil mixture. The bentonite-soil mixture was then placed back into the excavated trenches with the backhoe. A cross section of the IP plot showing the no-flow boundary walls is presented in Figure 3.

Once the no-flow boundary walls were constructed, a 30 cm (1 ft) wide by 30 cm (1 ft) high concrete berm was constructed over the top of the no-flow boundary walls to retain ponded water in the soil plot.

2.3 Installation of Instrumentation

Five access tubes, consisting of 5 cm (2 in) Schedule 40 polyvinyl chloride (PVC) pipe, were sealed at the lower ends with rubber stoppers and installed vertically to a depth of 2.7 m (9 ft) below ground surface at the IP site for measuring soil moisture. Three of the access tubes were installed inside of the IP plot and two access tubes were installed outside of the IP plot perimeter, adjacent to the concrete berm. Figure 2 shows the locations of the five access tubes. The access tubes located inside of the concrete berm were installed to measure soil moisture in the IP plot during the wetting and drying

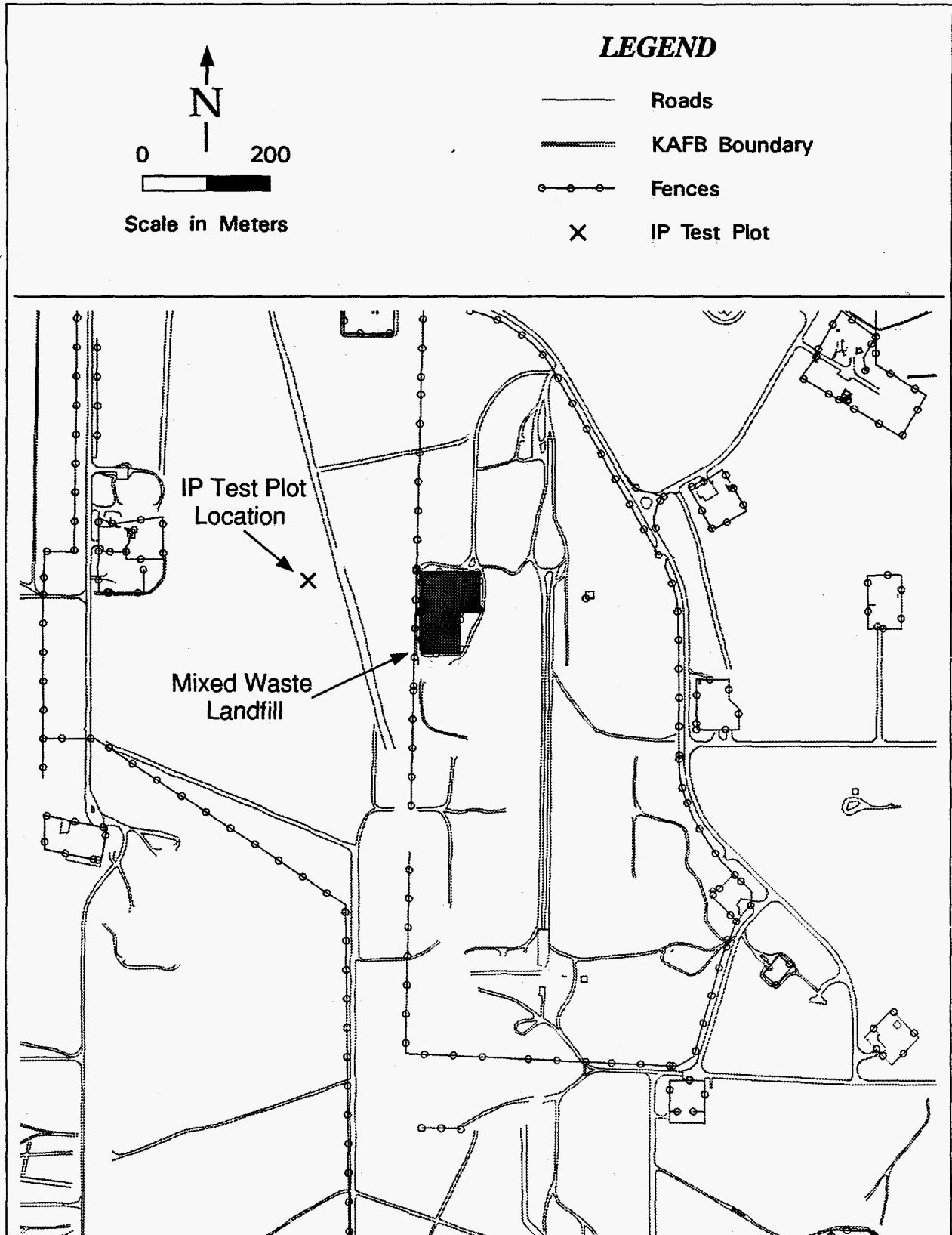
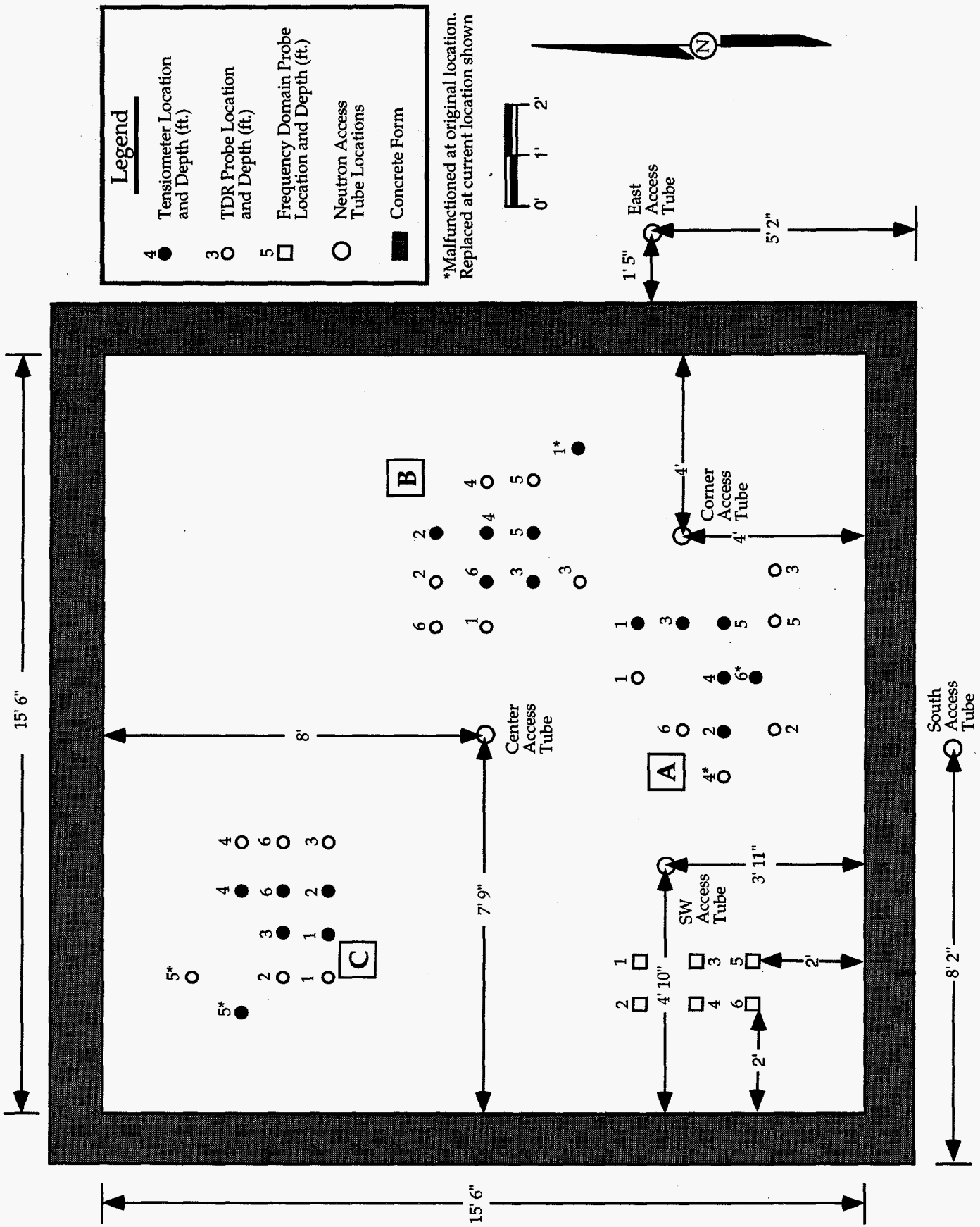


Figure 1. Instantaneous profile test plot location.



*Malfunctioned at original location. Replaced at current location shown

Figure 2. IP Plot Configuration and Instrument Locations

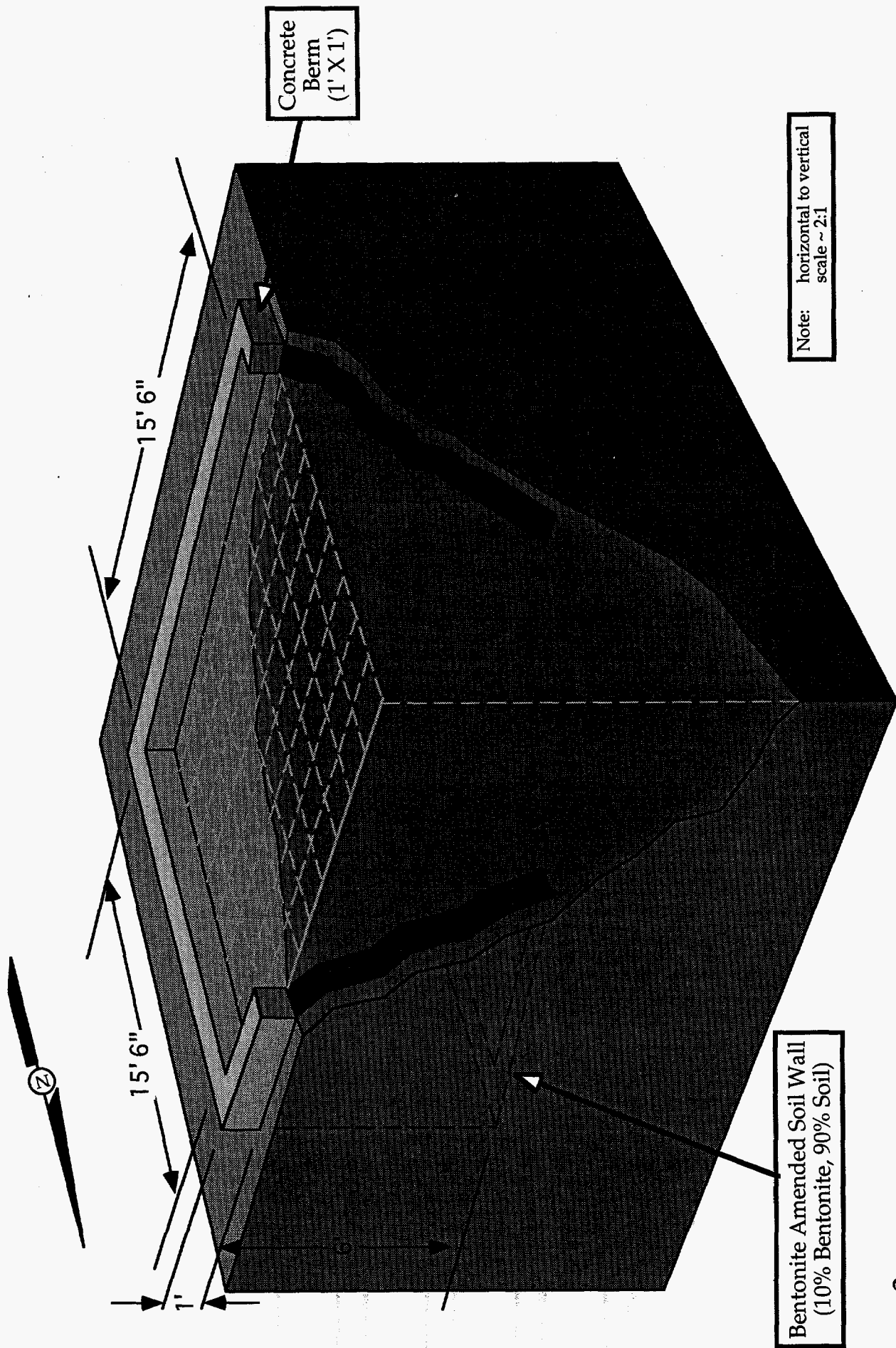


Figure 3. Cross-Section of IP Plot

phases of the study. The two access tubes located outside of the concrete berm, on the east and south sides, were installed to determine if any leakage was occurring through the no-flow boundary walls.

A hand-held auger was used to drill the holes for installation of the access tubes. The center, southeast corner, and south perimeter access tubes were installed prior to initiating the experiment. The remaining access tubes were added five months after the start of the IP test for additional geotechnical and hydrologic data.

Six buried RFC probes were installed in the southwest corner of the IP plot (Figure 2) for measuring soil moisture content during the test. The RFC data is considered experimental, and is not presented in this report. Three instrument clusters (A, B, and C), consisting of six tensiometers and six TDR probes, were installed inside the IP plot at depths ranging from 30 cm (1 ft) to 1.8 m (6 ft) below ground surface. The tensiometers and TDR probes were installed to measure soil tension and soil moisture at 30 cm (1 ft) vertical increments within the IP plot. The locations of the three instrument clusters and the specific location and depth of each tensiometer and TDR probe within each instrument cluster are shown in Figure 2. A cross section of the IP plot showing Instrument Cluster C is presented in Figure 4.

The TDR probes were installed by first auguring to the desired depth and then inserting the probes into undisturbed soil. The boreholes were then backfilled with the native soil excavated from the borehole during auguring.

Access holes for the tensiometers were drilled to the desired depth using a truck-mounted hydraulic geoprobe. The tensiometers were then inserted into the holes and covered by backfilling with native soil around each tube. The tensiometers and TDR probes were installed adjacent to each other for paired readings of tension and moisture content.

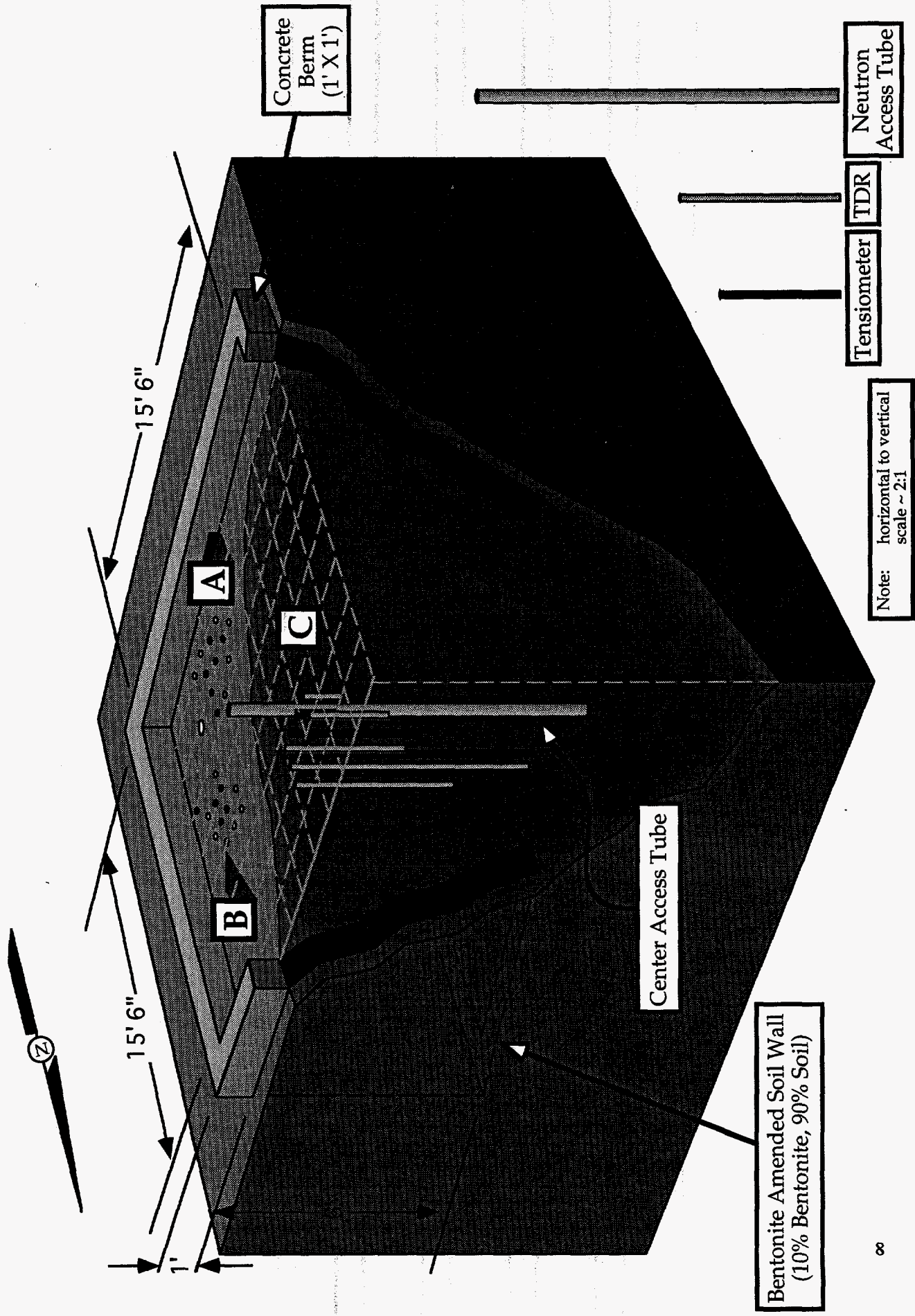


Figure 4. Cross-Section of IP Plot Showing Instrument Cluster C.

3.0 Site Geology

3.1 Soils

Soils in the area of the MWL and the IP Test Site are of the Madurez Loamy Fine Sand Series (USDA-SCS, 1977). These gently undulating soils are derived from old alluvium modified by wind and occur on slopes of one to five percent. Madurez Fine Sandy Loam soils are also prevalent. These soils are well-drained and runoff is slow. The soils are moderately alkaline throughout and calcareous below a depth of 33 cm (13 in). Irregular zones of higher calcareous content can be present throughout the soil profile. A typical Madurez Loamy Fine Sand soil profile consists of a brown, fine sandy loam at depths greater than 43 cm (17 in). The textural parameters for the Madurez Loamy Fine Sand Series are shown in Table 1, and chemical and textural parameters of surface and subsurface soils at the MWL are shown in Table 2.

During installation of the east perimeter access tube (Figure 2), core samples were collected for lithologic description. The lithologic descriptions are presented in Table 3.

Table 1. Textural Parameters for Madurez Loamy Fine Sand^a

Depth (In.)	Depth (Cm)	Depth ^b (USDA)
0 - 9	0 -23	LoFSa
9 - 21	23 - 53	SaClLo
21 - 60	53 - 152	SaLo

^aSource: USDA-SCS, 1977

^bLo=loam(y), F=Fine, Cl=Clay, Sa=Sand(y)

Table 2. Chemical and Textural Parameters of Surface and Subsurface Soils at the Mixed Waste Landfill^a

Depth (In.)	EC (mmhos/cm) ^b	pH	CaCO ₃	Organic Matter (%)	CEC (meq/100g) ^c	Sand (%)	Silt (%)	Clay (%)
0 - 11	3.45	8.27	0.5	0.2	6.51	82.58	8.95	8.47
11 - 18	15.53	7.86	3.9	0.2	8.18	83.28	7.13	9.59
18 - 26	13.79	7.76	5.5	0.1	7.27	85.9	6.17	7.93
26 - 38	19.7	7.63	11.3	0.27	5.76	86.69	8.43	4.88
38 - 62	27.81	7.48	21.4	0.07	6.52	69.49	25.05	5.46
79 - 83	4.6	8.25	8.3	0	5.88	86.97	9.91	3.12
83 - 89	4.31	8.17	6.3	0	6.8	84.23	9.57	6.2
89 - 99	5.43	7.93	10.8	0	9.15	75.19	14.59	10.22
99 - 117	6.34	7.96	16.8	0	10.1	76.75	9.22	14.03
117 - 130	5.47	7.99	10.9	0.07	9.17	62.42	26.65	10.93
130 - 137	3.46	8.1	8.3	0	7.41	70.39	23.18	6.43
137 - 151	4.31	8.04	8.6	0.03	7.66	71.14	19.28	9.58
151 - 170	5.78	7.94	11.8	0	10.93	49.58	40.99	9.43
170 - 184	5.43	7.93	9.1	0.03	7.57	59.22	27.16	13.62
184 - 194	3.31	8.08	4.2	0	7.88	86.06	4.2	9.74
194 - 216	1.91	8.31	4.4	0	5.34	91.51	2.17	6.32
216 - 233	3.81	8.02	18.9	0	4.24	85.2	12.18	2.62
233 - 253	3.71	8	7.9	0	5.31	85.11	6.31	8.58
252 - 269	2.84	8.13	5.3	0	4.35	91.95	2.39	5.66
269 - 282	1.96	8.45	3.5	0	2.83	92.56	3.22	4.22
282 - 302	2.28	8.2	7.4	0	3.59	91.47	3.97	4.56
302 - 318	1.27	8.18	9.9	0	3.38	89.51	5.67	4.82
318 - 347	1.35	8.36	3.5	0.03	5.6	86.93	4.92	8.15
347+	1.74	8.33	6.5	0.03	3.68	92.91	1.98	5.11

^aSource: SNL, 1980. Research by Peter Wierenga (New Mexico State University) on the MWL (unpublished report).

^bEC=Electrical Conductivity; mmhos/cm=millimhos per centimeter. ^cCEC=Cation exchange capacity; meq=milliequivalent.

Table 3. Lithologic Descriptions of Core Samples Taken During Installation of the East Neutron Access Tube.

0"-35" : Sand with silt; sand - fine to very fine grained with 2% coarse to very coarse grains, arkosic, subangular to subrounded; granules 5% and ≤ 4 mm, subangular to subrounded, predominately limestone, some quartzite; caliche granules $< 2\%$ and ≤ 4 mm. Pebbles 4% and ≤ 40 mm, predominately (80%) ≤ 20 mm, subangular to subrounded, limestone and quartzite (limestone approximately 85%, quartzite approximately 15%). Sand is loose and moderately to well-sorted, dry, strong reaction with HCL, brown to light brown 5YR5/6.

37"-43" : Silty sand with caliche; sand - fine to very fine grained with $\leq 1\%$ coarse to very coarse grains, arkosic, subangular to subrounded, moderately to well-sorted; granules 5% and ≤ 4 mm, subangular to subrounded, quartz and limestone, pebbles 3% and ≤ 4 mm, limestone and quartz. Sand is powdery with fragments moderately compacted, weakly to moderately cemented, moderate caliche as matrix, very strong reaction with HCL, light creamy brown 5YR7/2.

49"-99" : Silty sand with caliche; same as 37"-43" except fragments are moderately to well cemented, caliche as matrix.

100"-111" : Silty sand with caliche; sand - fine to very fine grained with 2% coarse to very coarse grains, arkosic, subangular to subrounded, moderately to well-sorted; granules 3% and ≤ 4 mm, subangular to subrounded, quartz and limestone, pebbles 5% and ≤ 4 mm, subangular to subrounded, limestone and quartz. Sand is powdery with fragments weakly to moderately compacted, very weakly cemented, moderate to little caliche as matrix, dry, moderate reaction with HCL, light brown 5YR5/4.

3.2 Subsurface Geology

The IP site and the MWL are underlain exclusively by the Santa Fe Group deposits. Sedimentary stratification beneath the IP site and the MWL is moderately to well developed and some graded bedding may occur. Beds can vary in thickness from a few centimeters to several meters. Bedding is often lenticular with limited aerial extent. However, channel beds can extend downdip for long distances, and similarly, thin sheets of fine sediments lain by flood deposits can extend over significant areas. Caliche layers are commonly formed on subaerially-exposed surfaces. Samples collected during drilling at the MWL indicate little correlation of individual sedimentary layers between wells and borings. However, the coarse-grained sediments near the surface of the MWL generally grade to fine-grained sediments with depth.

4.0 Instrumentation

Volumetric moisture contents were measured with a neutron moisture meter, RFC probes, and TDR probes. Soil water tension was measured with 1-bar porous cup tensiometers. Multiple instruments were used only for the purpose of side-by-side comparison of available technologies. The neutron moisture data and tensiometer data were used to calculate unsaturated hydraulic conductivities within the IP plot. These data are presented in Tables 4 and 5. This report uses only the tensiometer and neutron moisture meter data; hence only these instruments are described below.

4.1 Neutron Moisture Meter

Volumetric soil moisture data were obtained using a CPN Model 503DR neutron probe. The probe was manually lowered into the PVC access tubes and readings were collected at 30 cm (1 ft) intervals. Moisture data were recorded manually as raw counts from the neutron probe digital display. The raw counts were later converted to volumetric moisture using a site-specific calibration equation. This site-specific equation was determined using standard field calibration methods. The access tube locations are shown in Figure 2.

4.2 Tensiometers

Soil water tension data were obtained using 1-bar porous cup tensiometers developed by Soil Measurement Systems, Inc. The tensiometer cups are approximately 5 cm (2 in) long and 2.5 cm (1 in) in diameter, and are connected to the ground surface by a water-filled extension pipe. Tension values were monitored and recorded using pressure transducers connected to a Campbell CR7 electronic data logger. The transducers were calibrated in SNL/NM's Geohydrology Laboratory prior to installation in the field. Transducer output was calibrated against negative water pressure in units of bars.

5.0 Instantaneous Profile Test Description

The IP test was initiated at 10:40 AM on December 14, 1993. The test was conducted in two phases: an infiltration phase, and a drainage phase.

5.1 Infiltration Phase

During the infiltration phase, water was applied to the test plot and allowed to infiltrate into the soil profile until the entire test volume (4.73 m by 4.73 m by 1.8 m) (15.5 ft by 15.5 ft by 6 ft) approached near-saturated conditions. The cumulative flux of water applied was continuously monitored, and the advance of the wetting front was observed with the instrumentation in place and the neutron moisture meter.

During the infiltration phase of the IP test, 20,300 liters (5494 gallons) of water were distributed over the test plot through a flow distribution system. The flow distribution system maintained an average constant head of 5.2 cm (2 in) over the test plot, using a water-level sensitive switch wired to a solenoid and an electric pump. Water was distributed evenly across the IP test plot through a network of approximately 12.2 m (40 ft) of porous tubing, open at the end.

The plot was initially flooded at a constant pumping rate of 0.40 liters per second (6.3 gpm) until an average head of 5.2 cm (2 in) was maintained over the center of the plot. Once a constant head had been reached, the pump was automatically cycled on and off to maintain this head level, using the electronic switching device discussed above.

Figure 5 presents the cumulative flow added to the IP test plot, and Figure 6 presents instantaneous flow rates during the wetting portion of the test. Flow rates were somewhat irregular at first due to initial problems with the solenoid switch and water level detector. Once these problems were resolved, the flow rate remained uniform.

The advance of the wetting front was monitored by neutron logging and by collecting RFC measurements every half hour for the first 6 hours of the infiltration test, then hourly for the next 19 hours, then every four to nine hours until the drainage phase of the test began. Tensiometers and TDR probes were electronically monitored and their data were recorded at more frequent intervals, ranging from 10 to 30 minutes.

The moisture data collected from the neutron logging, and the corresponding tension data collected from the tensiometers are presented in Tables 4 and 5, respectively. Collection of the tensiometer data was computer controlled, allowing for quick tensiometer data acquisition, while neutron moisture data was manually collected. The remaining data (TDR, RFC probes, etc.) has been archived and may be presented in a later paper.

5.2 Drainage Phase

After field-saturated conditions were reached in the 1.8 m (6 ft) vertical profile, flooding was terminated and the drainage phase of the test began. The drainage phase was initiated on December 16, 1994 at 10:00 AM, 47 hours after the IP test plot was first flooded.

After the pump was turned off, head levels in the test plot dropped rapidly, as shown in Figure 6. Once the standing water in the plot had drained, the plot was covered with VisqueenTM and an overlying vinyl tarp to eliminate evaporation.

Neutron logging and RFC measurements were manually collected for the first 32 hours of the drainage phase of the test. Readings were then collected every 4 hours for the next 48 hours of the test. Thereafter, the frequency of readings was diminished to 8 hours, 12 hours, daily, weekly, and, eventually monthly, as the rate of drainage from the plot decreased asymptotically.

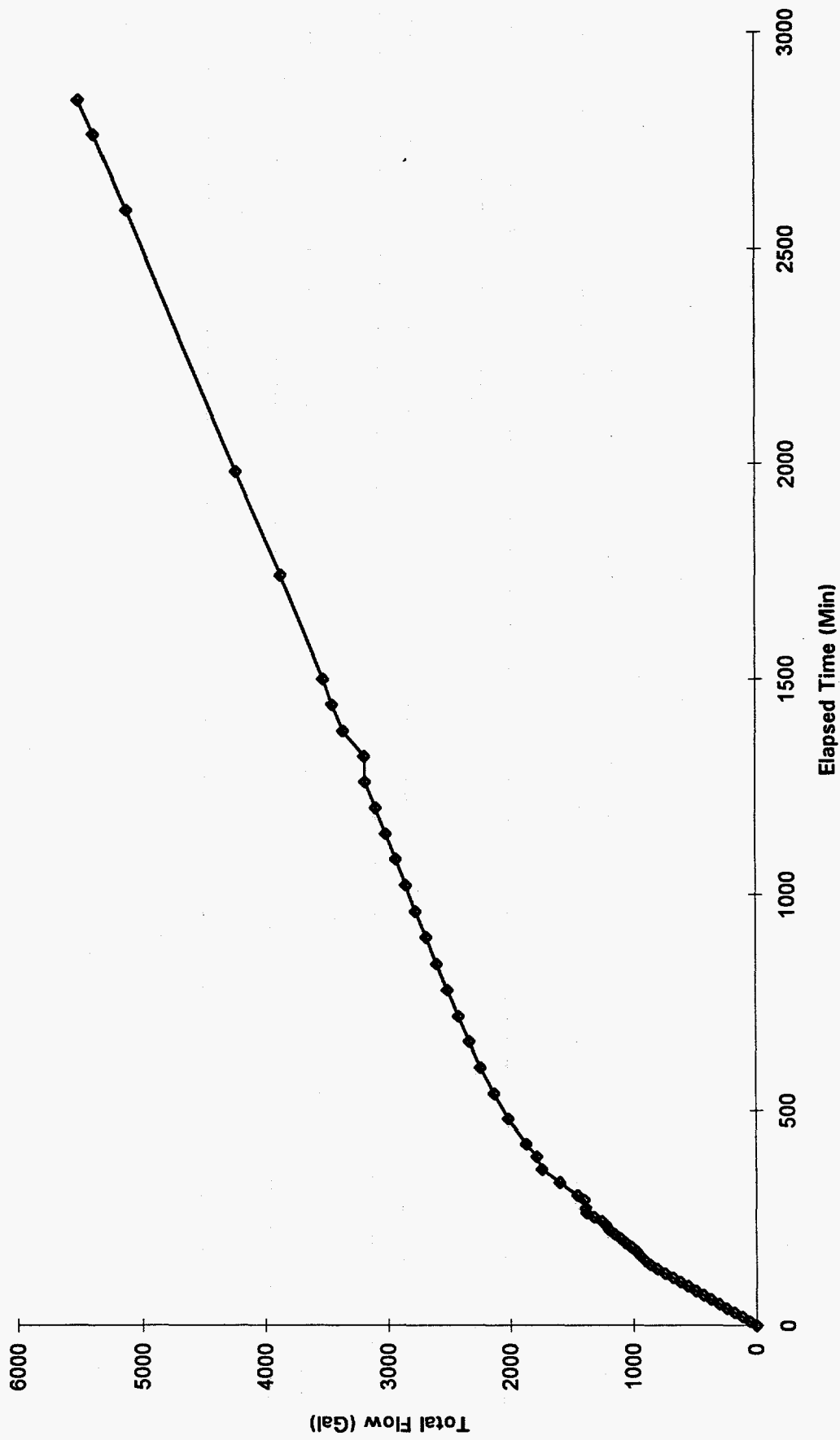


Figure 5. IP Infiltration Test, Cumulative Flow

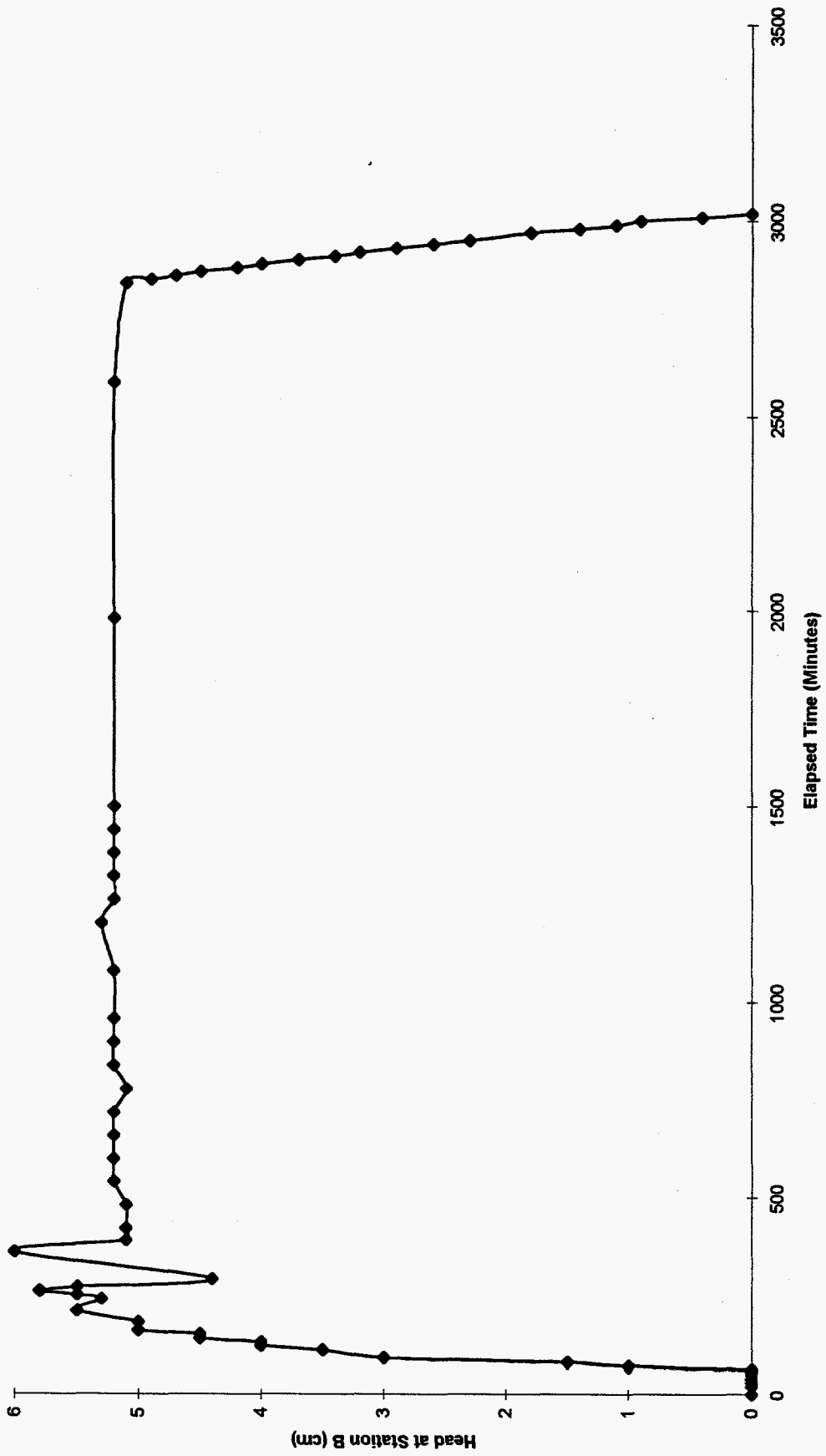


Figure 6. IP Plot Head Levels During Infiltration Test

Table 4. Neutron Moisture Meter Data.

Neutron Moisture Meter Data.																	
Access Tube, Southeast Corner of IP Site									Access Tube, Center of IP Site								
Date	Time	Test Days ¹	Volumetric Moisture Content %	Volumetric Moisture Content %	Volumetric Moisture Content %	Volumetric Moisture Content %	Volumetric Moisture Content %	Volumetric Moisture Content %	Date	Time	Test Days ¹	Volumetric Moisture Content %	Volumetric Moisture Content %	Volumetric Moisture Content %	Volumetric Moisture Content %	Volumetric Moisture Content %	
			Depth 30 cm	Depth 60 cm	Depth 90 cm	Depth 120 cm	Depth 150 cm	Depth 180 cm				Depth 30 cm	Depth 60 cm	Depth 90 cm	Depth 120 cm	Depth 150 cm	Depth 180 cm
12/14/93	7:30	-2.104	14.8	8.9	8.6	12.9	11.9	9.3	12/14/93	7:35	-2.101	11.8	9.0	11.5	15.1	13.2	10.7
12/14/93	11:10	-1.951	14.7	8.8	8.6	13.0	11.8	9.2	12/14/93	11:18	-1.946	12.2	9.0	12.1	15.3	13.5	10.9
	11:47	-1.926	16.9	9.1	9.0	13.2	11.8	9.1		11:40	-1.931	14.1	9.0	11.8	15.5	13.2	10.8
	12:10	-1.910	21.7	9.0	8.5	13.0	11.5	9.6	12/14/93	12:16	-1.906	24.9	8.7	11.7	15.3	13.1	10.7
	12:40	-1.889	29.5	9.1	11.7	15.6	13.7	11.0		12:40	-1.889	29.2	9.3	8.8	12.5	11.5	9.3
	13:10	-1.868	31.7	9.1	8.4	13.1	11.6	9.4		13:10	-1.868	31.1	10.6	12.0	15.9	13.2	10.6
	13:40	-1.847	32.1	13.6	8.4	13.1	11.4	8.9		13:40	-1.847	31.6	15.6	12.1	15.6	13.1	10.7
	14:10	-1.826	32.2	19.2	8.7	12.9	11.3	9.2		14:10	-1.826	32.1	29.0	12.1	15.5	13.0	10.9
12/14/93	14:40	-1.806	32.7	31.7	9.0	12.8	11.8	9.4		14:40	-1.806	31.9	31.3	12.6	15.6	12.8	10.7
	15:10	-1.785	32.4	33.4	9.4	12.6	11.6	8.9		15:10	-1.785	32.5	31.3	15.5	15.1	13.0	10.8
	15:40	-1.764	33.7	32.2	19.8	13.3	11.9	9.0	12/14/93	15:40	-1.764	32.8	31.3	22.0	15.2	13.2	10.8
	16:10	-1.743	33.5	34.4	29.9	12.6	12.1	9.5		16:10	-1.743	33.4	31.6	31.0	16.0	13.1	10.2
	16:40	-1.722	33.6	33.2	31.9	12.9	11.4	9.3		16:40	-1.722	33.6	31.6	32.2	16.0	12.8	10.6
	17:40	-1.681	34.3	33.4	33.2	14.9	10.6	9.2		17:40	-1.681	33.2	31.9	32.8	23.6	13.9	10.7
	18:40	-1.639	34.8	33.6	31.9	22.3	12.1	9.4		18:40	-1.639	33.2	31.9	33.1	27.8	15.3	10.7
12/14/93	19:40	-1.597	34.4	32.7	32.8	28.4	12.1	9.1		19:40	-1.597	33.8	32.3	33.5	29.5	19.5	10.6
	20:40	-1.556	34.9	32.5	32.0	30.4	13.1	9.3		20:40	-1.556	33.6	31.7	32.9	29.9	22.6	10.6
	21:40	-1.514	34.2	33.3	32.3	30.9	15.4	8.1		21:40	-1.514	33.6	32.2	33.8	29.9	28.8	10.5
	22:40	-1.472	34.6	32.7	32.6	31.3	18.3	9.1		22:40	-1.472	34.0	31.7	33.3	30.1	27.9	11.7
	23:40	-1.431	34.2	33.4	32.3	31.7	23.3	9.0		23:40	-1.431	33.5	31.9	33.4	30.3	28.2	13.0
12/15/93	0:40	-1.389	34.0	33.7	32.7	31.6	26.0	9.2	12/15/93	0:40	-1.389	33.5	31.4	34.0	30.4	28.2	16.0
	1:40	-1.347	34.4	32.6	32.9	30.8	27.3	9.4		1:40	-1.347	34.1	32.2	33.3	30.2	28.2	21.6
	2:40	-1.306	33.8	33.4	32.5	31.4	27.3	9.9		2:40	-1.306	33.7	32.0	33.6	30.6	28.1	25.1
	3:40	-1.264	33.7	33.5	32.4	31.7	28.3	11.1		3:40	-1.264	34.3	32.1	33.4	30.0	27.9	26.4
	4:40	-1.222	33.4	33.7	32.7	32.5	28.1	12.5		4:40	-1.222	33.7	32.2	32.9	30.0	28.3	26.4
	5:40	-1.181	34.3	33.3	32.3	31.6	27.6	16.1		5:40	-1.181	33.3	32.6	33.3	30.7	28.6	26.3
	6:40	-1.139	34.4	32.9	32.8	31.6	28.3	19.8		6:40	-1.139	32.8	32.4	33.2	30.8	28.1	26.2
	7:40	-1.097	34.4	33.7	32.6	31.7	27.9	23.4		7:40	-1.097	33.3	31.8	33.1	30.6	27.8	27.3
	8:40	-1.056	34.0	33.7	32.9	32.2	28.8	26.7		8:40	-1.056	33.3	32.4	33.0	30.4	27.8	27.2
12/15/93	9:40	-1.014	33.9	33.4	32.7	32.0	28.2	26.9		9:40	-1.014	33.1	31.9	33.0	31.0	27.6	27.4
	10:40	-0.972	34.1	33.0	32.9	31.8	28.7	27.4		10:40	-0.972	33.2	31.8	34.1	30.7	28.8	27.6
	11:40	-0.931	34.3	33.6	33.0	31.8	28.3	27.6		11:40	-0.931	33.3	31.9	33.8	30.1	28.2	27.5
	15:40	-0.764	34.7	33.5	32.8	32.0	28.7	28.5		15:40	-0.764	34.1	32.2	33.4	31.7	28.2	28.6
	19:40	-0.597	33.8	33.4	33.0	31.7	28.6	29.3		19:40	-0.597	33.7	31.6	33.9	30.6	28.4	28.2
12/16/93	5:40	-0.181	35.1	33.4	33.5	32.2	29.6	29.1	12/16/93	5:40	-0.181	33.2	32.3	33.5	31.6	29.3	28.9
	8:40	-0.056	34.1	33.8	33.3	32.5	29.0	29.7		8:40	-0.056	33.8	32.3	33.8	31.2	29.0	28.4
	10:00	0.000	34.7	33.6	33.5	32.5	28.9	29.5		10:00	0.000	34.1	33.0	34.7	31.3	28.2	28.6
	11:00	0.042	34.8	33.3	33.4	32.6	29.5	29.6		11:00	0.042	33.8	32.6	34.5	30.8	29.1	28.6
	12:00	0.083	34.2	34.0	33.8	32.5	29.4	29.7		12:00	0.083	34.2	32.9	34.9	31.7	28.3	29.0

Table 4. Neutron Moisture Meter Data.

Neutron Moisture Meter Data.																		
Access Tube, Southeast Corner of IP Site									Access Tube, Center of IP Site									
Date	Time	Days ¹	Volumetric Moisture Content %	Volumetric Moisture Content %	Volumetric Moisture Content %	Volumetric Moisture Content %	Volumetric Moisture Content %	Volumetric Moisture Content %	Date	Time	Days ¹	Volumetric Moisture Content %	Volumetric Moisture Content %	Volumetric Moisture Content %	Volumetric Moisture Content %	Volumetric Moisture Content %		
			Depth 30 cm	Depth 60 cm	Depth 90 cm	Depth 120 cm	Depth 150 cm	Depth 180 cm				Depth 30 cm	Depth 60 cm	Depth 90 cm	Depth 120 cm	Depth 150 cm	Depth 180 cm	
12/16/93	13:00	0.125	34.0	34.0	33.2	32.4	28.6	29.9	12/16/93	13:00	0.125	33.8	32.3	34.5	31.7	28.9	29.1	
	14:00	0.167	33.6	33.6	32.7	32.1	29.3	29.6		14:00	0.167	33.5	32.2	33.7	31.3	28.5	29.0	
	15:00	0.208	33.0	33.3	33.5	32.4	29.5	28.7		15:00	0.208	32.5	32.3	34.6	31.2	29.4	28.5	
	16:00	0.250	31.8	33.5	33.0	32.3	28.7	29.1		16:00	0.250	31.4	32.0	33.8	31.2	28.9	27.9	
	17:00	0.292	30.7	33.7	32.7	32.4	29.6	28.4		17:00	0.292	30.8	32.5	34.1	31.4	28.7	28.1	
	18:00	0.333	30.3	33.4	33.2	32.1	29.2	28.7		18:00	0.333	29.9	31.5	34.3	31.5	28.6	27.8	
	19:00	0.375	29.8	32.7	33.1	32.1	28.8	28.1		19:00	0.375	28.6	32.0	34.5	31.0	28.4	27.6	
	20:00	0.417	28.8	32.0	32.5	32.3	28.5	28.4		20:00	0.417	28.7	31.7	34.3	31.2	28.7	27.4	
	21:00	0.458	28.5	32.0	33.4	32.6	28.5	27.8		21:00	0.458	28.0	31.8	34.5	30.5	28.4	27.3	
	22:00	0.500	28.3	31.4	32.9	31.7	28.6	27.6		22:00	0.500	27.1	31.4	33.8	31.5	28.2	27.5	
12/17/93	23:00	0.542	27.4	31.3	32.4	32.4	28.3	28.1	12/17/93	23:00	0.542	26.8	31.0	34.3	31.1	28.0	27.1	
	0:00	0.583	27.1	30.9	32.1	32.3	28.5	28.5		0:00	0.583	26.5	31.4	33.5	31.4	28.4	26.9	
	1:00	0.625	26.1	30.2	31.4	31.4	28.5	27.6		1:00	0.625	26.6	31.3	33.5	30.8	28.2	27.4	
	2:00	0.667	26.5	30.8	31.8	31.5	28.3	27.3		2:00	0.667	25.8	31.1	33.7	31.0	27.6	26.8	
	3:00	0.708	26.4	30.5	31.8	31.7	28.1	27.0		3:00	0.708	26.3	30.5	33.4	30.9	27.7	26.7	
	4:00	0.750	25.7	29.4	31.9	31.7	28.7	27.0		4:00	0.750	25.8	30.0	34.1	30.6	27.9	26.8	
	5:00	0.792	25.6	29.4	31.4	31.6	28.4	26.9		5:00	0.792	25.4	30.1	33.7	30.8	27.9	26.9	
	6:00	0.833	24.9	29.2	31.7	31.3	28.3	26.6		12/17/93	6:00	0.833	24.7	30.2	32.9	30.9	27.7	26.5
	7:00	0.875	25.4	29.6	31.9	30.8	28.5	26.6			7:00	0.875	24.6	29.9	34.0	30.9	27.7	26.4
	8:00	0.917	24.9	28.8	31.3	31.0	27.8	27.5			8:00	0.917	24.7	30.3	33.6	31.5	27.9	26.1
9:00	0.958	24.9	28.5	31.1	31.3	28.2	27.1	9:00	0.958		24.8	29.5	32.8	30.3	28.6	25.9		
10:00	1.000	24.9	28.0	30.9	31.2	28.7	27.2	10:00	1.000		24.7	29.4	33.9	31.3	28.3	26.2		
11:00	1.042	24.6	28.7	31.2	31.2	28.8	26.4	11:00	1.042		24.5	29.1	33.8	30.9	27.9	25.9		
12:00	1.083	24.6	28.1	31.1	31.1	28.4	26.4	12:00	1.083		24.8	28.9	33.5	31.2	28.1	25.8		
13:00	1.125	24.6	28.6	31.4	31.5	28.1	26.5	13:00	1.125		24.2	29.3	33.2	31.0	28.1	25.6		
14:00	1.167	24.7	27.6	31.0	31.5	28.3	26.2	14:00	1.167		24.2	28.7	32.7	31.0	27.7	26.0		
15:00	1.208	23.7	27.2	30.2	31.3	27.9	26.4	15:00	1.208		24.1	29.1	32.8	30.5	28.1	25.4		
12/18/93	16:00	1.250	24.6	27.9	29.9	31.3	28.3	25.7	16:00	1.250	23.7	28.1	33.2	31.0	27.3	25.6		
	17:00	1.292	24.0	27.4	29.8	31.8	28.5	26.0	17:00	1.292	24.4	28.0	32.5	30.6	27.9	25.8		
	18:00	1.333	24.2	27.2	30.4	31.4	28.0	26.1	18:00	1.333	23.6	28.2	33.1	30.0	27.2	23.7		
	22:00	1.500	23.6	26.9	28.9	31.1	28.0	25.7	12/18/93	22:00	1.500	23.5	27.1	32.3	30.0	27.5	24.9	
	2:00	1.667	23.6	26.3	29.5	31.0	27.6	25.6		2:00	1.667	23.0	26.7	32.2	30.5	27.4	24.4	
	6:00	1.833	23.8	26.7	29.2	31.0	27.0	25.2		6:00	1.833	23.0	26.8	32.0	30.0	27.1	24.5	
	10:00	2.000	23.1	26.0	29.3	31.3	27.6	24.5		10:00	2.000	23.0	26.3	31.1	30.3	26.9	24.5	
	14:00	2.167	22.7	25.9	29.1	30.9	28.1	24.1		14:00	2.167	22.6	26.0	31.1	29.8	26.3	24.0	
	18:00	2.333	22.8	25.0	28.6	30.8	27.6	23.8		18:00	2.333	22.8	26.0	31.7	29.9	27.1	23.8	
	22:00	2.500	22.9	25.4	28.9	30.1	28.9	23.9		22:00	2.500	22.1	25.7	30.5	29.5	26.3	24.0	
12/19/93	2:00	2.667	23.1	25.6	28.1	30.6	27.3	24.4		12/19/93	2:00	2.667	22.0	25.4	30.8	28.6	26.6	23.9
	6:00	2.833	23.0	24.9	27.7	30.0	27.1	23.5			6:00	2.833	22.0	25.5	30.6	29.9	26.5	23.5

Table 4. Neutron Moisture Meter Data.

Neutron Moisture Meter Data.																	
Access Tube, Southeast Corner of IP Site									Access Tube, Center of IP Site								
Test			Volumetric Moisture Content %	Volumetric Moisture Content %	Volumetric Moisture Content %	Volumetric Moisture Content %	Volumetric Moisture Content %	Volumetric Moisture Content %	Test			Volumetric Moisture Content %	Volumetric Moisture Content %	Volumetric Moisture Content %	Volumetric Moisture Content %	Volumetric Moisture Content %	
Date	Time	Days ¹	Depth 30 cm	Depth 60 cm	Depth 90 cm	Depth 120 cm	Depth 150 cm	Depth 180 cm	Date	Time	Days ¹	Depth 30 cm	Depth 60 cm	Depth 90 cm	Depth 120 cm	Depth 150 cm	Depth 180 cm
	10:00	3.000	22.4	24.6	27.6	29.4	26.8	23.6		10:00	3.000	22.1	24.4	30.7	30.1	26.0	23.4
	14:00	3.167	22.9	24.7	28.0	30.8	26.8	23.1		14:00	3.167	21.6	24.6	30.5	29.9	26.0	23.5
12/19/93	18:00	3.333	22.4	24.6	27.6	30.8	26.8	23.3	12/19/93	18:00	3.333	21.4	24.7	30.1	29.3	25.6	23.5
12/20/93	6:00	3.833	22.9	24.8	27.3	30.4	26.7	22.8	12/20/93	6:00	3.833	22.1	24.5	30.0	28.7	25.4	23.1
	14:00	4.167	22.4	23.9	27.1	30.9	26.1	22.4		14:00	4.167	21.3	24.0	29.9	29.0	25.1	22.6
	22:00	4.500	22.1	24.3	27.0	30.4	26.2	22.9		22:00	4.500	21.0	23.8	30.1	28.7	25.2	22.8
12/31/93	6:00	4.833	22.0	23.9	26.8	30.1	26.5	22.7	12/21/93	6:00	4.833	21.1	23.8	30.0	29.3	24.8	22.4
	18:00	5.333	21.8	23.7	26.3	29.9	26.6	22.0		18:00	5.333	20.3	23.3	28.9	28.8	24.4	22.2
12/22/93	6:00	5.917	21.5	23.1	26.3	29.2	26.3	21.7	12/22/93	6:00	5.917	20.4	22.9	29.1	28.9	24.7	22.1
	20:00	6.417	21.7	23.1	26.3	29.8	26.1	22.1		20:00	6.417	20.4	23.4	28.9	28.8	24.8	21.6
12/23/93	8:30	6.938	21.4	23.2	25.5	29.7	25.7	21.7	12/23/93	8:30	6.938	20.4	22.7	28.6	28.8	25.0	21.7
12/24/93	10:00	8.000	21.2	23.0	25.5	29.0	26.5	21.1	12/24/93	10:00	8.000	19.8	22.5	28.2	28.6	24.1	21.1
12/25/93	10:00	9.000	20.5	22.2	25.0	29.5	25.5	20.4	12/25/93	10:00	9.000	19.8	22.1	28.6	28.0	24.7	20.9
12/26/93	10:00	10.000	20.3	22.5	24.6	29.1	26.1	21.2	12/26/93	10:00	10.000	19.5	21.8	27.7	28.0	24.7	21.5
12/27/93	10:00	11.000	20.8	22.2	24.3	29.0	25.7	20.6	12/27/93	10:00	11.000	20.1	21.1	27.4	27.9	24.1	20.9
12/28/93	10:00	12.000	20.1	21.9	23.7	28.7	25.2	20.4	12/28/93	10:00	12.000	19.6	21.2	27.2	27.4	23.7	20.9
12/29/93	10:00	13.000	20.0	21.8	23.7	28.7	25.2	19.8	12/29/93	10:00	13.000	19.0	21.6	27.5	27.8	23.8	20.5
1/2/94	10:00	17.000	19.7	21.2	22.8	28.8	24.4	19.5	1/2/94	10:00	17.000	19.1	20.9	26.6	27.2	23.7	19.7
1/3/94	10:00	18.000	19.3	21.2	23.0	28.2	24.8	19.4	1/3/94	10:00	18.000	18.7	20.8	27.1	26.9	23.0	20.2
1/4/94	10:00	19.000	19.4	21.1	22.9	28.4	24.7	19.2	1/4/94	10:00	19.000	18.5	20.7	26.3	26.6	23.4	19.5
1/5/94	10:20	20.01	19.4	21.1	22.6	27.7	24.0	19.2	1/5/94	10:20	20.014	18.5	20.7	26.4	26.8	23.3	19.9
1/11/94	8:50	25.99	19.1	20.2	21.9	27.8	23.7	19.2	1/11/94	9:40	25.986	17.9	19.9	26.1	26.5	22.1	19.3
1/18/94	10:20	34.01	18.6	20.4	21.4	27.1	23.4	18.4	1/18/94	10:20	34.014	17.5	19.6	25.7	26.1	21.6	19.3
1/25/94	1:20	41.14	18.7	19.7	20.9	26.1	23.8	17.8	1/25/94	1:25	41.142	17.2	19.1	24.8	26.2	22.4	18.6
2/2/94	11:00	48.19	18.2	19.8	20.6	26.1	23.2	17.7	2/2/94	2:30	48.188	17.2	18.2	24.2	25.9	21.0	18.8
2/9/94	11:00	55.04	19.8	20.0	20.5	26.1	22.9	18.3	2/9/94	11:00	55.042	17.5	19.0	24.4	26.3	21.4	18.2
2/16/94	11:00	62.04	18.7	19.9	19.7	26.6	22.5	17.4	2/16/94	11:00	62.042	17.7	18.8	24.5	25.2	21.1	18.2
2/23/94	11:00	69.04	18.3	19.1	19.7	25.2	21.9	17.8	2/23/94	11:00	69.043	16.9	18.5	23.4	25.3	21.1	17.9
3/2/94	11:00	76.04	18.2	19.5	19.7	25.6	22.1	17.3	3/2/94	11:00	76.043	16.8	18.0	23.7	25.4	21.2	18.2
3/9/94	11:00	83.04	18.9	19.4	19.4	25.6	22.0	16.8	3/9/94	11:00	83.042	17.6	18.1	23.5	26.1	20.9	18.5
3/16/94	11:00	90.04	19.3	19.5	19.6	24.9	22.6	16.9	3/16/94	11:00	90.043	17.8	18.4	23.2	24.8	20.6	17.9
3/23/94	11:00	97.04	19.2	18.8	19.1	25.6	21.8	16.3	3/23/94	11:00	97.043	17.4	18.1	22.8	25.2	20.8	17.7
3/30/94	11:00	104.13	18.5	18.7	18.8	25.0	22.1	16.5	3/30/94	13:00	104.133	17.1	18.0	22.9	25.2	20.3	17.4
4/6/94	11:30	111.18	18.0	18.9	19.0	25.7	21.2	16.8	4/6/94	11:30	111.183	17.3	17.8	22.3	25.7	20.8	17.5
4/13/94	11:00	118.04	17.8	18.6	18.7	25.1	21.4	16.8	4/13/94	11:00	118.043	16.8	17.4	22.5	25.0	19.7	18.1
4/20/94	14:30	125.19	17.7	18.5	18.8	25.7	21.5	16.7	4/20/94	14:30	125.194	16.6	17.9	22.8	24.8	20.5	17.5
4/27/94	11:30	132.19	17.2	18.7	18.6	25.3	21.0	17.0	4/27/94	11:30	132.193	16.4	17.4	22.0	24.7	20.1	17.8
5/4/94	13:00	139.08	17.5	18.7	18.1	24.5	21.6	16.2	5/4/94	13:00	139.113	16.4	17.0	22.3	25.0	19.9	17.6
5/12/94	13:10	147.08	17.4	18.1	18.1	24.9	21.7	16.6	5/12/94	13:00	147.113	15.9	17.4	22.9	24.8	19.7	17.2

Table 4. Neutron Moisture Meter Data.

Neutron Moisture Meter Data.																	
Access Tube, Southeast Corner of IP Site									Access Tube, Center of IP Site								
Test			Volumetric Moisture Content %	Volumetric Moisture Content %	Volumetric Moisture Content %	Volumetric Moisture Content %	Volumetric Moisture Content %	Volumetric Moisture Content %	Test			Volumetric Moisture Content %	Volumetric Moisture Content %	Volumetric Moisture Content %	Volumetric Moisture Content %	Volumetric Moisture Content %	
Date	Time	Days ¹	Depth 30 cm	Depth 60 cm	Depth 90 cm	Depth 120 cm	Depth 150 cm	Depth 180 cm	Date	Time	Days ¹	Depth 30 cm	Depth 60 cm	Depth 90 cm	Depth 120 cm	Depth 150 cm	Depth 180 cm
5/18/94	11:00	153.08	17.4	18.1	18.1	24.7	21.0	16.7	5/18/94	11:00	153.013	16.3	17.2	22.4	24.4	19.5	16.7
5/24/94	14:40	159.08	17.6	18.3	18.3	24.9	21.5	17.2	5/25/94	14:30	160.203	16.0	16.9	22.9	24.7	20.4	17.4
6/2/94	11:00	168.08	18.4	18.3	17.8	24.9	20.8	18.3	6/2/94	11:00	168.013	15.9	17.0	22.0	24.7	19.8	17.4
6/6/94	12:40	174.11	18.3	17.7	18.4	24.9	21.0	16.5	6/6/94	12:30	174.113	16.4	16.9	21.8	24.1	19.4	17.6
6/16/94	13:00	182.12	18.1	18.6	18.0	25.3	21.2	16.2	6/16/94	12:30	182.113	16.2	17.5	22.3	24.9	19.9	17.2
6/22/94	12:20	188.11	20.1	18.5	17.8	25.0	21.0	15.8	6/22/94	12:00	188.083	15.9	17.5	21.7	23.9	20.6	16.8
6/29/94	13:00	195.12	18.1	18.6	17.7	24.3	20.6	16.2	6/29/94	13:00	195.083	15.7	16.8	22.4	24.1	19.7	16.8
7/7/94	9:00	203.01	17.8	18.2	17.8	24.5	21.3	16.5	7/7/94	9:00	203.013	15.9	17.0	21.9	25.2	20.0	17.0
7/13/94	10:00	209.01	17.5	18.1	17.5	24.4	20.9	15.9	7/13/94	10:00	209.013	15.2	16.6	22.2	24.1	19.9	16.9
7/20/94	11:30	216.01	17.6	17.9	17.8	24.1	21.6	16.1	7/20/94	11:30	216.013	15.2	16.9	21.8	24.8	20.2	17.6
7/29/94	14:30	225.21	17.8	17.8	17.8	24.4	20.8	15.8	7/29/94	14:30	225.213	15.4	16.2	22.3	24.7	19.8	17.1
8/3/94	15:03	230.31	21.2	21.7	18.5	24.3	21.0	16.2	8/3/94	14:55	230.213	15.1	16.9	21.6	24.8	20.1	17.3
8/10/94	14:54	237.22	18.2	19.3	18.0	24.7	20.1	16.7	8/10/94	14:45	237.223	13.8	16.6	21.4	24.4	20.1	17.7
8/17/94	13:00	244.11	22.2	23.6	23.8	27.0	21.3	16.3	8/17/94	13:00	244.113	14.3	16.8	21.3	24.1	19.2	17.1
8/24/94	12:30	251.10	20.6	20.8	21.7	26.0	22.9	17.0	8/24/94	12:30	251.104	15.4	16.7	21.5	24.5	19.7	16.9
8/31/94	11:30	258.06	20.6	21.7	21.7	26.1	22.4	16.8	8/31/94	11:30	258.063	14.8	16.2	21.2	24.5	19.3	17.3
9/16/94	14:25	274.18	19.9	19.4	20.4	25.9	20.8	17.1	9/16/94	14:32	274.189	13.7	15.6	21.3	23.8	19.0	17.3
9/20/94	12:10	288.09	18.8	19.2	18.7	25.2	21.3	16.3	9/20/94	12:00	288.083	14.5	16.1	20.4	23.4	19.2	16.7
10/17/94	9:30	304.98	17.8	18.2	18.4	24.4	20.8	15.9	10/17/94	9:30	304.979	13.2	16.3	19.8	23.6	18.6	17.1
11/11/94	9:45	329.99	17.3	18.0	16.9	23.8	19.7	16.3	11/11/94	9:30	329.979	13.6	15.1	19.6	23.9	18.7	16.5

¹Days for which data was taken. Includes days prior to flooding the IP test site.

Table 5. Tensiometer Data

		Tensiometer Data																		
		Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
12/14/93	10:10	-1.993	173.9	200.1	151.3	246.0	207.6	285.4	304.6	358.9	154.2	80.8	148.6	447.2	139.2	250.9	318.9	247.6	90.2	90.92
12/14/93	10:20	-1.986	189.5	199.3	156.5	251.2	221.6	280.2	301.1	358.9	155.9	80.8	159.9	448.0	140.9	255.2	318.6	250.2	91.1	91.72
12/14/93	10:30	-1.979	162.6	190.6	156.5	239.9	228.4	270.6	287.2	353.6	150.7	69.4	160.7	448.0	131.3	254.3	315.1	245.8	90.2	92.62
12/14/93	10:40	-1.972	162.6	188.0	161.7	232.9	227.5	267.9	277.7	350.9	147.2	65.9	147.7	448.0	121.8	248.2	314.2	244.0	89.3	93.42
12/14/93	10:50	-1.965	167.8	194.0	168.6	229.4	221.5	278.4	279.4	357.1	151.5	72.0	139.9	448.8	118.3	245.6	317.6	243.1	90.1	93.42
12/14/93	11:00	-1.958	171.2	194.9	173.9	236.4	219.7	287.1	286.3	368.5	164.5	85.1	142.4	449.7	120.0	246.4	325.3	250.9	95.3	96.82
12/14/93	11:10	-1.951	169.5	197.4	184.3	250.2	212.0	287.1	291.4	376.4	179.3	83.4	139.8	450.5	118.3	250.7	332.2	255.3	98.8	96.82
12/14/93	11:20	-1.944	166.8	209.5	193.0	259.7	209.4	279.2	306.1	380.8	187.9	75.5	139.8	453.1	117.4	251.5	339.1	255.2	99.6	97.62
12/14/93	11:30	-1.937	171.2	219.0	193.0	250.2	212.8	269.6	315.5	376.4	187.0	67.6	139.8	456.6	118.2	250.6	342.5	251.7	97.9	97.62
12/14/93	11:40	-1.931	185.0	223.3	191.2	244.0	214.5	267.8	315.5	373.7	187.0	67.6	143.2	457.4	120.8	254.1	344.1	254.2	94.3	97.62
12/14/93	11:50	-1.924	153.8	228.8	191.2	241.4	216.2	262.6	312.0	366.6	187.9	66.7	150.1	456.5	125.1	255.8	344.9	254.2	95.2	98.42
12/14/93	12:00	-1.917	33.2	227.6	192.0	237.9	217.8	262.6	307.6	373.6	187.0	63.2	171.7	455.6	125.1	265.3	344.9	255.9	95.1	98.32
12/14/93	12:10	-1.910	24.6	226.7	194.6	236.1	223.0	274.7	309.3	366.6	187.0	65.0	180.4	455.6	126.8	269.6	344.8	255.8	93.4	97.52
12/14/93	12:20	-1.903	17.6	227.6	195.5	243.9	231.6	282.8	317.1	366.5	187.0	65.8	182.9	455.5	126.8	273.9	345.6	258.4	96.8	97.42
12/14/93	12:30	-1.896	15.0	200.7	186.7	243.9	231.5	285.2	317.0	363.9	185.2	65.8	176.0	454.7	129.4	275.6	344.8	259.3	94.2	96.62
12/14/93	12:40	-1.889	12.4	56.2	87.5	247.4	235.0	284.3	323.9	366.5	185.2	63.2	180.3	451.1	132.0	273.9	345.6	259.3	92.5	94.82
12/14/93	12:50	-1.882	9.8	32.0	26.3	241.3	235.0	273.8	322.2	368.3	185.2	59.7	179.4	446.7	131.1	267.8	344.7	256.6	94.2	93.12
12/14/93	13:00	-1.875	9.8	19.9	15.2	237.8	240.1	269.4	320.5	366.5	181.7	59.7	182.9	444.1	126.8	267.8	345.6	256.6	93.3	91.42
12/14/93	13:10	-1.868	9.8	14.7	10.9	239.5	242.7	261.6	318.7	367.4	180.0	59.7	186.3	440.6		269.5	342.9	260.9	88.1	87.12
12/14/93	13:20	-1.861	9.8	9.5	7.4	237.7	249.5	266.8	322.1	366.4	181.7	60.5	193.2	444.0		274.6	344.6	263.5	89.8	87.02
12/14/93	13:30	-1.854	6.3	8.6	5.7	24.5	250.4	272.0	328.2	364.7	180.0	59.7	195.8	444.9		275.5	344.6	263.5	89.8	86.22
12/14/93	13:40	-1.847	3.7	6.0	4.8	-0.6	246.1	275.5	332.5	363.8	180.0	58.8	191.5	447.5		273.8	343.8	260.9	89.8	86.22
12/14/93	13:50	-1.840	2.9	6.0	4.8	-6.7	251.3	275.5	337.7	362.9	178.2	56.2	195.0	447.5		276.4	343.8	260.9	89.8	84.52
12/14/93	14:00	-1.833	0.3	5.2	4.8	-11.0	238.4	274.7	342.0	361.2	177.4	52.7	193.3	448.4		278.2	343.8	261.8	88.9	83.62
12/14/93	14:10	-1.826	-1.5	5.2	3.9	-12.8	157.5	276.4	345.5	359.4	174.8	49.2	192.4	449.3		278.2	343.8	261.8	86.3	82.82
12/14/93	14:20	-1.819	-2.3	4.3	5.7	-15.4	16.4	280.8	348.1	357.6	174.8	49.2	196.7	452.0		279.9	343.8	261.8	86.3	82.82
12/14/93	14:30	-1.812	-4.1	4.3	5.7	-17.1	7.0	279.9	342.1	356.8	174.8	49.2	196.7	454.6		279.9	343.8	263.6	86.3	81.92
12/14/93	14:40	-1.806	-4.9	3.4	4.8	-18.8	4.4	178.8	196.0	354.1	171.3	51.0	191.5	454.6		279.9	343.0	263.6	83.7	78.52
12/14/93	14:50	-1.799	-6.7	5.2	4.8	-21.4	0.9	12.3	18.8	352.4	171.3	51.0	189.8	452.9		279.1	342.1	264.5	82.9	77.62
12/14/93	15:00	-1.792	-7.5	4.3	7.4	-23.2	-6.0	7.1	9.3	349.7	174.8	49.2	194.1	453.7		277.3	341.2	264.5	81.1	77.62
12/14/93	15:10	-1.785	-8.4	3.4	6.5	-24.0	-9.4	6.2	7.5	346.2	174.8	51.0	196.7	454.6		276.5	342.1	266.2	79.4	75.92
12/14/93	15:20	-1.778	-10.1	2.6	4.8	-26.6	-12.8	2.8	4.9	345.3	176.5	50.1	198.5	455.5		278.2	342.1	267.1	78.5	75.02
12/14/93	15:30	-1.771	-10.1	2.6	3.9	-26.6	-15.4	-0.7	-4.6	345.3	177.4	49.2	198.5	456.3		278.2	343.8	267.1	77.7	74.22
12/14/93	15:40	-1.764	-10.1	-0.9	1.3	-26.6	-19.7	-5.1	-8.0	343.5	179.1	51.0	201.1	456.4		279.1	343.8	269.7	75.9	74.22
12/14/93	15:50	-1.767	-12.7	-4.4	-1.3	-29.2	-20.6	-7.7	-13.2	342.7	181.7	51.0	204.6	459.0		280.8	345.6	269.7	75.9	71.62
12/14/93	16:00	-1.760	-13.6	-7.8	-4.8	-30.1	-23.2	-11.2	-16.7	287.1	181.7	49.2	206.3	458.1		282.6	347.3	269.7	74.2	69.92
12/14/93	16:10	-1.743	-13.6	-10.4	-7.4	-31.0	-26.6	-15.5	-18.4	100.9	150.5	49.2	207.2	458.1		283.5	347.4	270.6	73.4	68.22
12/14/93	16:20	-1.736	-15.3	-13.9	-10.0	-33.6	-27.5	-18.2	-21.0	3.0	31.7	49.2	208.1	459.0		283.5	347.4	271.5	71.6	67.42

Table 5. Tensiometer Data

		Tensiometer Data																		
	Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
12/14/93	18:30	-1.729	-15.3	-14.8	-12.6	-33.6	-30.1	-20.8	-22.7	-12.0	0.5	49.2	210.7	460.8		285.3	348.3	272.5	71.7	66.52
12/14/93	18:40	-1.722	-17.1	-18.2	-13.5	-36.2	-33.5	-22.5	-24.5	-17.3	-8.9	47.5	210.7	459.9		285.3	349.2	273.3	69.9	65.72
12/14/93	18:50	-1.715	-17.9	-18.2	-16.1	-37.0	-33.5	-28.0	-28.8	-22.6	-16.0	47.5	209.0	460.8		285.3	350.1	271.6	69.1	63.12
12/14/93	17:00	-1.708	-17.9	-17.3	-17.0	-37.0	-33.5	-26.9	-28.8	-24.4	-20.3	46.6	205.6	461.7		282.8	351.0	270.8	67.4	62.32
12/14/93	17:10	-1.701	-17.9	-19.9	-17.8	-37.9	-36.1	-28.6	-30.5	-28.8	-25.5	47.5	203.0	461.8		281.9	351.0	271.7	67.4	61.42
12/14/93	17:20	-1.694	-17.9	-20.8	-19.6	-38.8	-36.9	-30.4	-34.0	-31.4	-28.1	17.8	202.1	462.7		281.9	351.9	270.0	65.7	58.92
12/14/93	17:30	-1.687	-19.7	-21.7	-19.6	-40.5	-37.8	-32.1	-34.8	-35.0	-32.5	-6.6	140.6	460.9		282.0	351.1	270.0	63.9	58.92
12/14/93	17:40	-1.681	-20.5	-22.5	-19.6	-41.4	-38.6	-33.8	-37.4	-37.6	-36.9	-18.8	54.8	460.1		281.1	349.4	269.2	64.0	55.52
12/14/93	17:50	-1.674	-20.5	-22.5	-20.5	-41.4	-39.5	-35.6	-37.4	-38.5	-38.5	-22.3	10.6	459.2		280.3	348.6	268.3	62.2	54.62
12/14/93	18:00	-1.667	-21.4	-22.5	-22.2	-41.4	-41.2	-35.6	-40.0	-41.2	-39.4	-25.8	9.8	459.3		279.5	346.9	267.5	60.5	52.92
12/14/93	18:10	-1.660	-21.4	-24.3	-21.3	-41.4	-41.2	-38.2	-40.9	-42.0	-42.9	-34.5	6.3	459.3		279.5	348.7	267.5	60.5	52.12
12/14/93	18:20	-1.653	-21.4	-24.3	-23.1	-42.2	-42.1	-39.1	-41.7	-44.7	-42.9	-41.5	1.1	459.3		278.7	347.8	267.6	59.7	52.12
12/14/93	18:30	-1.646	-21.4	-24.3	-23.1	-42.2	-41.2	-40.8	-44.3	-44.7	-45.5	-43.2	-25.8	455.8		277.8	347.9	267.6	58.0	52.12
12/14/93	18:40	-1.639	-21.4	-24.3	-23.1	-43.1	-43.8	-41.7	-44.3	-46.4	-45.5	-45.0	-44.8	427.8		279.6	347.9	267.6	58.3	51.32
12/14/93	18:50	-1.632	-21.4	-25.1	-23.9	-44.0	-43.8	-42.6	-45.2	-47.3	-47.2	-48.5	-52.7	360.3		279.6	348.8	267.7	55.4	48.72
12/14/93	19:00	-1.625	-22.3	-25.1	-23.9	-44.8	-44.7	-42.6	-46.0	-48.2	-47.2	-48.5	-56.1	200.8		279.7	348.0	269.4	55.4	49.62
12/14/93	19:10	-1.618	-21.4	-25.1	-23.9	-44.0	-44.7	-44.3	-47.8	-48.2	-48.9	-51.1	-57.0	0.1		279.7	348.0	268.6	52.8	49.62
12/14/93	19:20	-1.611	-23.1	-25.1	-24.8	-44.8	-45.5	-44.3	-47.8	-49.1	-50.7	-51.1	-59.6	0.1		279.7	348.8	270.3	51.9	47.92
12/14/93	19:30	-1.604	-23.1	-26.9	-23.9	-44.8	-45.5	-43.4	-48.6	-50.0	-50.7	-52.0	-63.1	-0.8		279.7	348.0	270.4	51.1	48.72
12/14/93	19:40	-1.597	-23.1	-26.9	-24.8	-44.8	-46.4	-44.3	-48.6	-50.8	-50.7	-52.9	-64.8	-13.0		280.6	348.0	268.6	51.1	48.82
12/14/93	21:10	-1.535	-24.0	-28.6	-27.4	-47.4	-47.2	-47.8	-51.2	-52.6	-78.4	-57.2	-73.5	-47.2		280.7	343.8	268.7	42.4	43.62
12/14/93	21:20	-1.528	-24.0	-28.6	-26.5	-47.4	-47.2	-46.9	-52.1	-54.4	-79.3	-59.0	-74.3	-49.0		281.5	344.7	268.7	41.6	42.82
12/14/93	21:30	-1.521	-24.0	-28.6	-27.4	-47.4	-47.2	-47.8	-52.1	-54.4	-79.3	-57.2	-76.1	-49.8		280.7	344.7	268.7	40.7	42.82
12/14/93	21:40	-1.514	-24.0	-27.7	-27.4	-47.4	-48.1	-48.7	-52.1	-55.3	-81.0	-59.0	-75.2	-50.7		281.8	343.0	269.6	40.7	41.92
12/14/93	21:50	-1.507	-24.0	-28.6	-27.4	-47.4	-49.0	-47.8	-52.1	-55.3	-81.9	-59.8	-76.1	-50.7		282.4	342.1	268.8	39.8	41.92
12/14/93	22:00	-1.500	-24.0	-28.6	-26.5	-47.4	-49.8	-47.8	-52.1	-56.1	-81.9	-60.7	-76.9	-52.5		282.4	341.3	268.8	39.8	41.92
12/14/93	22:10	-1.493	-24.0	-28.6	-27.4	-46.6	-49.8	-48.7	-52.1	-55.3	-81.9	-62.5	-76.9	-51.6		282.5	339.6	268.8	38.1	39.42
12/14/93	22:20	-1.486	-24.0	-28.6	-27.4	-47.4	-49.0	-47.8	-52.1	-56.1	-81.9	-61.6	-76.9	-53.4		282.5	337.6	268.8	39.0	39.42
12/14/93	22:30	-1.479	-23.1	-28.6	-27.4	-46.3	-48.1	-48.7	-52.1	-56.1	-81.9	-61.6	-76.9	-53.4		281.8	336.1	268.8	36.4	37.62
12/14/93	22:40	-1.472	-24.0	-28.6	-27.4	-47.4	-48.1	-48.7	-52.1	-56.1	-82.8	-62.5	-76.9	-53.4		281.8	334.4	268.8	36.4	35.12
12/14/93	22:50	-1.465	-24.0	-28.6	-27.4	-47.4	-49.8	-47.8	-52.1	-56.1	-81.9	-62.5	-76.9	-53.4		280.7	330.9	269.7	36.4	33.32
12/14/93	23:00	-1.458	-24.0	-28.6	-26.5	-47.4	-49.0	-48.7	-52.1	-55.3	-83.6	-62.5	-76.9	-54.3		279.0	324.9	269.7	33.8	31.62
12/14/93	23:10	-1.451	-24.0	-28.6	-27.4	-47.4	-49.0	-48.7	-52.1	-56.1	-83.6	-62.5	-76.9	-54.3		272.0	310.2	267.9	34.6	30.82
12/14/93	23:20	-1.444	-23.1	-29.5	-27.4	-46.6	-48.1	-47.8	-52.9	-56.1	-83.6	-62.5	-76.9	-54.3		261.6	281.7	268.8	32.9	29.02
12/14/93	23:30	-1.437	-24.0	-30.3	-27.4	-47.4	-49.8	-48.7	-52.9	-56.1	-85.4	-61.6	-76.9	-56.0		232.8	228.2	268.8	33.8	27.32
12/14/93	23:40	-1.431	-24.0	-28.6	-27.4	-47.4	-49.0	-47.8	-52.9	-56.1	-85.4	-60.7	-76.9	-56.0		170.9	141.9	268.8	33.8	25.62
12/14/93	23:50	-1.424	-24.0	-28.6	-27.4	-47.4	-49.0	-48.7	-52.1	-56.1	-85.4	-59.8	-76.9	-56.9		53.3	30.5	268.8	32.9	24.72
12/15/93	0:00	-1.417	-24.0	-28.6	-27.4	-47.4	-49.8	-48.7	-52.1	-56.1	-84.5	-60.7	-76.9	-56.0		16.7	9.8	268.8	33.8	23.02

Table 5. Tensiometer Data

		Tensiometer Data																		
		Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
12/15/93	0:10	-1.410	-24.0	-28.6	-27.4	-45.7	-49.8	-48.7	-52.9	-56.1	-85.4	-61.6	-77.8	-56.9		15.8	2.9	268.8	32.0	22.22
12/15/93	0:20	-1.403	-24.0	-28.6	-27.4	-47.4	-49.8	-47.8	-52.9	-56.1	-85.4	-62.5	-76.9	-56.9		11.4	-1.4	268.8	31.2	21.32
12/15/93	0:30	-1.396	-24.0	-28.6	-27.4	-47.4	-50.7	-49.5	-52.1	-56.1	-85.4	-61.6	-76.9	-56.9		10.6	-4.0	267.9	30.3	21.32
12/15/93	0:40	-1.389	-24.0	-28.6	-27.4	-47.4	-49.8	-49.5	-52.1	-54.4	-85.4	-62.5	-77.8	-56.9		8.8	-6.6	264.4	29.4	18.72
12/15/93	0:50	-1.382	-24.8	-28.6	-27.4	-47.4	-50.7	-48.7	-52.9	-56.1	-86.2	-61.6	-76.9	-57.8		8.8	-9.2	260.1	29.4	17.92
12/15/93	1:00	-1.375	-24.0	-28.6	-27.4	-49.2	-50.7	-48.7	-52.9	-56.1	-85.4	-61.6	-78.6	-56.9		7.1	-10.0	254.0	29.4	17.92
12/15/93	1:10	-1.368	-24.0	-28.6	-27.4	-47.4	-49.8	-48.7	-52.1	-56.1	-86.2	-61.6	-77.8	-56.9		7.1	-10.0	246.1	29.4	17.92
12/15/93	1:20	-1.361	-24.0	-28.6	-27.4	-47.4	-49.8	-48.7	-52.9	-56.1	-86.2	-61.6	-77.8	-57.8		7.1	-10.0	233.0	29.4	17.92
12/15/93	1:30	-1.354	-24.0	-28.6	-27.4	-47.4	-49.8	-48.7	-52.9	-56.1	-88.0	-60.7	-76.9	-56.9		7.1	-10.9	218.1	29.4	17.92
12/15/93	1:40	-1.347	-24.0	-28.6	-27.4	-47.4	-50.7	-48.7	-52.1	-56.1	-87.1	-60.7	-76.9	-59.5		6.2	-10.9	197.1	29.4	17.92
12/15/93	1:50	-1.340	-24.0	-28.6	-27.4	-48.3	-49.8	-48.7	-52.9	-56.1	-88.8	-61.6	-77.8	-59.5		5.4	-12.6	170.9	28.6	17.92
12/15/93	2:00	-1.333	-23.1	-28.6	-28.3	-47.4	-49.8	-48.7	-52.1	-56.1	-88.0	-60.7	-76.9	-59.5		4.5	-12.6	142.9	27.7	17.02
12/15/93	2:10	-1.326	-23.1	-28.6	-27.4	-47.4	-50.7	-50.4	-52.9	-56.1	-88.8	-61.6	-77.8	-59.5		4.5	-13.5	112.3	26.8	17.92
12/15/93	2:20	-1.319	-24.0	-28.6	-27.4	-47.4	-51.6	-48.7	-52.9	-56.1	-88.8	-61.6	-77.8	-58.6		6.2	-12.6	85.2	26.8	17.92
12/15/93	2:30	-1.312	-24.8	-29.5	-27.4	-47.4	-49.8	-48.7	-51.2	-56.1	-88.8	-62.5	-77.8	-59.5		5.4	-13.5	61.5	26.8	17.92
12/15/93	2:40	-1.306	-24.0	-28.6	-27.4	-47.4	-50.7	-49.5	-52.9	-56.1	-88.8	-62.5	-77.8	-59.5		4.5	-13.5	49.3	25.1	17.92
12/15/93	2:50	-1.299	-24.0	-28.6	-27.4	-45.7	-50.7	-49.5	-52.9	-56.1	-88.8	-62.5	-79.5	-59.5		3.6	-14.3	41.4	26.0	18.12
12/15/93	3:00	-1.292	-24.0	-28.6	-27.4	-47.4	-50.7	-49.5	-52.9	-56.1	-89.7	-62.5	-78.6	-60.4		4.5	-14.3	37.9	26.0	13.62
12/15/93	3:10	-1.285	-24.0	-27.7	-27.4	-47.4	-50.7	-49.5	-52.9	-56.1	-88.8	-62.5	-80.4	-60.4		3.6	-13.5	37.0	22.5	11.02
12/15/93	3:20	-1.278	-24.0	-28.6	-27.4	-47.4	-49.0	-48.7	-52.9	-56.1	-89.7	-61.6	-80.4	-59.5		4.5	-14.3	37.1	21.6	7.52
12/15/93	3:30	-1.271	-24.0	-28.6	-27.4	-47.4	-50.7	-49.5	-52.9	-56.1	-88.8	-59.8	-80.4	-60.4		5.4	-14.3	36.2	18.4	4.12
12/15/93	3:40	-1.264	-24.0	-28.6	-28.3	-48.3	-49.8	-49.5	-52.9	-56.1	-89.7	-60.7	-78.6	-59.5		4.5	-14.3	35.3	12.0	-0.18
12/15/93	3:50	-1.257	-24.0	-28.6	-26.5	-47.4	-49.8	-48.7	-52.9	-56.1	-89.7	-59.8	-78.6	-60.4		3.6	-14.3	36.2	6.8	-4.48
12/15/93	4:00	-1.250	-24.0	-28.6	-27.4	-47.4	-50.7	-48.7	-53.8	-57.0	-89.7	-62.5	-80.4	-58.6		3.6	-13.5	33.6	1.6	-7.98
12/15/93	4:10	-1.243	-24.0	-28.6	-27.4	-47.4	-49.0	-48.7	-52.9	-56.1	-89.7	-62.5	-78.6	-60.4		4.5	-13.5	33.6	-4.5	-12.28
12/15/93	4:20	-1.236	-24.0	-27.7	-27.4	-47.4	-49.8	-49.5	-52.1	-56.1	-89.7	-62.5	-78.6	-59.5		4.5	-13.5	34.4	-8.8	-14.88
12/15/93	4:30	-1.229	-24.0	-29.5	-26.5	-47.4	-50.7	-48.7	-52.1	-56.1	-89.7	-60.7	-78.6	-60.4		4.5	-14.3	32.7	-14.9	-16.58
12/15/93	4:40	-1.222	-23.1	-29.5	-27.4	-47.4	-49.0	-48.7	-52.9	-57.0	-91.5	-61.6	-79.5	-59.5		4.5	-14.3	33.6	-19.3	-19.98
12/15/93	4:50	-1.215	-24.8	-28.6	-27.4	-47.4	-49.8	-49.5	-52.9	-56.1	-92.3	-62.5	-79.5	-59.5		3.6	-14.3	33.6	-22.8	-23.48
12/15/93	5:00	-1.208	-23.1	-28.6	-27.4	-47.4	-50.7	-48.7	-52.9	-56.1	-91.5	-62.5	-80.4	-59.5		4.5	-14.3	33.6	-22.8	-23.48
12/15/93	5:10	-1.201	-24.0	-28.6	-27.4	-47.4	-50.7	-49.5	-53.8	-56.1	-92.3	-62.5	-79.5	-60.4		4.5	-14.3	33.6	-26.2	-25.98
12/15/93	5:20	-1.194	-24.0	-28.6	-27.4	-47.4	-50.7	-48.7	-52.9	-56.1	-91.5	-62.5	-79.5	-60.4		5.4	-14.3	33.6	-26.2	-26.88
12/15/93	5:30	-1.187	-24.0	-26.9	-27.4	-47.4	-50.7	-50.4	-52.9	-57.0	-91.5	-60.7	-79.5	-58.6		3.6	-14.3	33.6	-29.7	-26.88
12/15/93	5:40	-1.181	-24.8	-28.6	-27.4	-47.4	-50.7	-49.5	-52.9	-56.1	-91.5	-61.6	-80.4	-59.5		4.5	-14.3	33.6	-29.7	-29.48
12/15/93	5:50	-1.174	-24.0	-28.6	-28.3	-47.4	-49.8	-49.5	-52.9	-56.1	-90.6	-61.6	-80.4	-60.4		4.5	-14.3	32.7	-29.7	-30.28
12/15/93	6:00	-1.167	-23.1	-28.6	-27.4	-47.4	-50.7	-50.4	-53.8	-56.1	-92.3	-60.7	-78.6	-60.4		6.2	-14.3	34.4	-31.5	-30.28
12/15/93	6:10	-1.160	-24.0	-28.6	-27.4	-46.5	-49.8	-48.7	-53.8	-57.0	-92.3	-61.6	-79.5	-60.4		4.5	-15.2	30.1	-33.2	-31.18
12/15/93	6:20	-1.153	-24.8	-28.6	-28.3	-47.4	-50.7	-49.5	-52.9	-56.1	-90.4	-62.5	-79.5	-59.5		4.5	-14.3	31.8	-33.2	-32.88

Table 5. Tensiometer Data

			Tensiometer Data																	
	Test		Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
12/15/93	6:30	-1.146	-23.1	-28.6	-27.4	-47.4	-50.7	-48.7	-53.8	-56.1	-91.5	-62.5	-79.5	-60.4		4.5	-14.3	30.9	-34.1	-32.88
12/15/93	6:40	-1.139	-23.1	-29.5	-27.4	-48.3	-50.7	-48.7	-52.9	-56.1	-92.3	-62.5	-78.6	-60.4		3.6	-14.3	32.7	-33.2	-32.88
12/15/93	6:50	-1.132	-24.0	-28.6	-27.4	-47.4	-50.7	-48.7	-52.9	-56.1	-92.3	-62.5	-78.6	-60.4		5.4	-14.3	31.0	-34.1	-33.78
12/15/93	7:00	-1.125	-24.0	-29.5	-27.4	-47.4	-49.8	-49.5	-53.8	-56.1	-92.3	-62.5	-80.4	-60.4		4.5	-14.3	31.8	-34.9	-33.78
12/15/93	7:10	-1.118	-24.8	-30.3	-27.4	-47.4	-49.8	-48.7	-52.9	-56.1	-92.3	-62.4	-80.4	-60.4		4.5	-12.6	31.0	-36.7	-33.78
12/15/93	7:20	-1.111	-24.0	-28.6	-27.4	-47.4	-49.8	-49.5	-54.7	-56.1	-92.3	-64.2	-80.4	-60.4		5.4	-13.5	31.0	-36.7	-33.78
12/15/93	7:30	-1.104	-24.8	-28.6	-27.4	-47.4	-50.7	-48.7	-52.9	-56.1	-92.3	-62.4	-79.5	-60.4		4.5	-14.3	31.0	-35.8	-33.78
12/15/93	7:40	-1.097	-24.0	-28.6	-28.3	-47.4	-50.7	-48.7	-53.8	-57.0	-92.3	-62.4	-78.6	-60.4		4.5	-14.3	31.0	-36.7	-33.78
12/15/93	7:50	-1.090	-23.1	-28.6	-27.4	-47.4	-49.8	-48.7	-52.9	-57.0	-92.3	-62.4	-79.5	-60.4		4.5	-14.3	31.0	-36.7	-35.48
12/15/93	8:00	-1.083	-24.0	-28.6	-27.4	-47.4	-49.8	-48.7	-53.8	-56.1	-92.3	-62.4	-79.5	-60.4		5.4	-14.3	31.0	-35.8	-36.38
12/15/93	8:10	-1.076	-23.1	-28.6	-27.4	-47.4	-49.0	-48.7	-53.8	-56.1	-92.3	-62.5	-78.6	-60.4		5.4	-14.3	30.1	-36.7	-37.18
12/15/93	8:20	-1.069	-24.0	-28.6	-27.4	-48.3	-46.4	-48.7	-53.8	-56.1	-92.3	-62.5	-78.6	-59.5		7.1	-14.3	30.1	-36.7	-37.18
12/15/93	8:30	-1.062	-23.1	-28.6	-27.4	-47.4	-47.2	-48.7	-53.8	-56.1	-92.3	-63.3	-77.8	-59.5		3.6	-13.5	30.1	-38.4	-37.18
12/15/93	8:40	-1.056	-23.1	-28.6	-29.2	-47.4	-47.2	-47.8	-52.9	-56.1	-90.6	-64.2	-76.9	-59.5		6.2	-15.2	30.1	-38.4	-38.08
12/15/93	8:50	-1.049	-23.1	-28.6	-27.4	-47.4	-47.2	-48.7	-54.7	-56.1	-92.3	-64.2	-76.9	-59.5		6.2	-14.3	30.0	-38.4	-38.08
12/15/93	9:00	-1.042	-24.0	-28.6	-27.4	-47.4	-47.2	-48.7	-52.1	-55.2	-92.3	-63.3	-76.9	-60.4		6.2	-14.3	30.0	-39.3	-38.98
12/15/93	9:10	-1.035	-23.1	-27.7	-27.4	-47.4	-47.2	-47.8	-52.9	-56.1	-92.3	-65.1	-76.9	-60.4		6.2	-14.4	30.0	-39.3	-38.08
12/15/93	9:20	-1.028	-24.0	-28.6	-27.4	-47.4	-47.2	-47.8	-52.9	-55.2	-91.5	-65.1	-76.9	-60.4		6.2	-14.4	30.0	-38.5	-38.98
12/15/93	9:30	-1.021	-22.2	-26.9	-26.5	-47.4	-47.2	-47.8	-52.1	-55.3	-91.5	-64.2	-76.9	-58.6		7.9	-13.5	30.0	-39.4	-38.98
12/15/93	9:40	-1.014	-23.1	-26.0	-26.5	-47.4	-47.2	-46.0	-52.1	-56.1	-92.3	-65.1	-76.9	-58.6		6.2	-13.5	30.0	-39.4	-38.88
12/15/93	9:50	-1.007	-21.4	-26.9	-25.7	-46.6	-47.2	-46.0	-52.1	-55.3	-92.3	-65.1	-76.1	-58.6		7.0	-13.5	30.0	-39.4	-38.98
12/15/93	10:00	-1.000	-22.3	-27.7	-25.7	-47.4	-47.2	-46.0	-52.1	-55.3	-92.3	-65.1	-76.1	-57.8		7.0	-13.5	30.0	-39.4	-38.98
12/15/93	10:10	-0.993	-21.4	-26.9	-25.7	-46.6	-45.5	-46.9	-53.0	-55.3	-91.5	-65.1	-76.9	-58.6		7.0	-13.5	28.9	-40.3	-40.78
12/15/93	10:20	-0.986	-21.4	-26.9	-26.5	-46.6	-46.4	-46.0	-53.0	-55.3	-91.5	-65.1	-76.9	-58.7		7.0	-11.8	29.1	-40.3	-39.88
12/15/93	10:30	-0.979	-21.4	-26.0	-25.7	-46.6	-46.4	-46.0	-53.0	-55.3	-91.5	-65.1	-76.1	-58.7		7.0	-12.7	29.0	-40.3	-39.88
12/15/93	10:40	-0.972	-21.4	-27.7	-25.7	-46.6	-47.3	-46.0	-51.2	-55.3	-92.3	-65.1	-75.2	-57.8		7.0	-12.7	29.0	-40.3	-39.88
12/15/93	10:50	-0.965	-21.4	-26.0	-25.7	-46.6	-46.4	-46.0	-51.2	-55.3	-91.5	-65.1	-76.1	-57.8		7.0	-12.7	29.9	-39.4	-40.78
12/15/93	11:00	-0.958	-21.4	-26.0	-24.8	-45.7	-46.4	-46.0	-52.1	-55.3	-92.3	-65.1	-76.1	-57.8		7.0	-12.7	28.1	-40.3	-40.78
12/15/93	11:10	-0.951	-21.4	-26.0	-24.8	-44.8	-45.5	-46.0	-51.2	-55.3	-92.3	-64.2	-76.1	-57.8		7.0	-11.9	28.1	-40.3	-40.78
12/15/93	11:20	-0.944	-21.4	-25.1	-23.9	-44.8	-45.5	-46.9	-51.2	-55.3	-91.5	-65.1	-76.1	-57.8		7.0	-12.7	28.1	-40.3	-40.78
12/15/93	11:30	-0.937	-21.4	-25.1	-24.8	-45.7	-46.4	-46.9	-52.1	-55.3	-92.3	-65.1	-76.1	-58.7		7.0	-12.7	28.1	-40.3	-40.78
12/15/93	11:40	-0.931	-21.4	-26.0	-24.8	-44.8	-45.5	-46.0	-51.2	-56.1	-92.3	-65.1	-76.1	-57.8		6.9	-12.7	28.1	-40.3	-39.98
12/15/93	11:50	-0.924	-22.3	-26.0	-24.8	-44.8	-46.4	-45.2	-52.1	-56.1	-92.3	-65.1	-76.1	-57.8		6.9	-12.8	28.1	-40.3	-40.78
12/15/93	12:00	-0.917	-21.4	-26.0	-23.9	-44.8	-46.4	-46.0	-52.1	-56.2	-92.3	-64.2	-77.0	-57.8		6.9	-12.8	28.1	-42.1	-40.78
12/15/93	12:10	-0.910	-21.4	-26.0	-24.8	-44.8	-45.5	-46.1	-51.3	-55.3	-92.3	-65.1	-77.0	-57.8		6.9	-11.9	28.1	-42.1	-40.88
12/15/93	12:20	-0.903	-21.4	-25.1	-23.9	-46.6	-45.5	-45.2	-52.1	-55.3	-92.3	-64.2	-77.0	-57.8		6.9	-12.8	28.9	-41.2	-40.88
12/15/93	12:30	-0.896	-21.4	-25.1	-23.9	-44.8	-45.5	-46.1	-51.3	-55.3	-92.3	-64.2	-77.0	-57.8		6.9	-12.8	28.9	-41.2	-40.88
12/15/93	12:40	-0.889	-21.4	-25.1	-23.9	-44.8	-43.8	-44.3	-52.1	-56.2	-92.3	-65.1	-76.1	-57.8		6.9	-12.8	28.0	-42.1	-41.68

Table 5. Tensiometer Data

		Tensiometer Data																		
		Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
12/15/93	12:50	-0.882	-21.4	-26.0	-23.9	-44.8	-45.5	-45.2	-52.1	-56.2	-92.3	-68.0	-76.1	-58.9	6.9	-11.1	28.9	-42.1	-41.68	
12/15/93	13:00	-0.876	-22.3	-25.1	-23.9	-44.0	-44.7	-45.2	-52.1	-53.5	-92.3	-65.1	-77.0	-58.9	6.9	-11.9	28.9	-41.2	-43.48	
12/15/93	13:10	-0.868	-21.4	-25.1	-23.9	-44.0	-43.8	-45.2	-51.3	-52.6	-92.3	-62.5	-73.5	-58.9	6.6	-11.1	30.6	-40.4	-41.78	
12/15/93	13:20	-0.861	-21.4	-26.0	-23.9	-44.8	-44.7	-45.2	-51.3	-52.6	-92.3	-62.5	-73.5	-58.9	6.6	-11.1	31.5	-41.3	-40.88	
12/15/93	13:30	-0.854	-22.3	-25.1	-23.9	-45.7	-47.3	-46.1	-52.1	-52.6	-92.3	-62.5	-77.0	-58.9	6.9	-11.1	32.4	-40.4	-40.88	
12/15/93	13:40	-0.847	-22.3	-26.9	-24.8	-46.6	-46.4	-46.9	-52.1	-53.5	-92.3	-62.5	-76.1	-58.7	6.9	-11.1	30.6	-41.3	-39.98	
12/15/93	13:50	-0.840	-22.3	-26.9	-23.9	-46.6	-47.3	-46.9	-52.1	-54.4	-92.3	-62.5	-77.0	-57.8	6.9	-12.8	30.7	-40.4	-40.88	
12/15/93	14:00	-0.833	-23.1	-26.9	-24.8	-44.8	-47.3	-46.9	-52.1	-55.3	-92.3	-62.5	-76.1	-57.8	6.9	-11.9	30.7	-40.4	-40.88	
12/15/93	14:10	-0.826	-23.1	-26.9	-24.8	-46.6	-47.3	-46.1	-52.1	-54.4	-92.3	-62.5	-76.1	-58.9	6.9	-11.1	30.7	-42.1	-40.88	
12/15/93	14:20	-0.819	-22.3	-27.7	-25.7	-46.6	-47.3	-46.9	-53.0	-54.4	-92.3	-62.5	-75.2	-58.7	6.9	-13.6	30.7	-42.1	-40.88	
12/15/93	14:30	-0.812	-24.0	-27.7	-26.5	-45.7	-46.4	-46.1	-52.1	-56.2	-92.3	-63.4	-76.1	-58.7	6.1	-12.8	30.7	-43.0	-40.88	
12/15/93	14:40	-0.806	-23.1	-27.7	-26.5	-47.4	-47.3	-46.9	-52.1	-55.3	-94.1	-63.4	-77.0	-58.7	6.9	-12.8	30.7	-43.0	-40.88	
12/15/93	14:50	-0.799	-22.3	-27.7	-25.7	-47.4	-47.3	-46.9	-53.0	-55.3	-92.3	-65.1	-77.0	-59.5	6.9	-12.8	30.7	-43.8	-42.58	
12/15/93	15:00	-0.792	-22.3	-27.7	-26.5	-47.4	-47.3	-46.1	-53.8	-55.3	-94.9	-66.0	-76.1	-60.4	6.9	-13.6	28.1	-43.8	-44.28	
12/15/93	15:10	-0.786	-22.3	-27.7	-25.7	-46.6	-46.4	-46.1	-52.1	-55.3	-94.9	-65.1	-77.0	-60.4	6.9	-12.8	29.0	-43.8	-44.28	
12/15/93	15:20	-0.778	-23.1	-27.7	-25.7	-46.6	-46.4	-46.9	-52.1	-56.2	-92.3	-64.2	-76.1	-59.5	6.9	-13.6	29.8	-43.8	-44.28	
12/15/93	15:30	-0.771	-22.3	-27.7	-26.5	-46.6	-47.3	-46.1	-52.1	-55.3	-92.3	-62.5	-76.1	-58.7	6.9	-12.8	30.7	-43.8	-44.28	
12/15/93	15:40	-0.764	-22.3	-26.9	-26.5	-46.6	-46.4	-46.1	-52.1	-55.3	-93.2	-63.4	-77.0	-58.7	6.9	-12.8	30.7	-44.7	-44.28	
12/15/93	15:50	-0.767	-22.3	-26.9	-25.7	-46.6	-46.4	-46.1	-52.1	-55.3	-94.1	-62.5	-76.1	-59.5	6.9	-13.6	30.7	-43.8	-44.28	
12/15/93	16:00	-0.760	-24.0	-26.9	-25.7	-46.6	-46.4	-46.1	-52.1	-55.3	-92.3	-62.5	-77.0	-60.4	6.9	-13.6	30.7	-43.8	-44.28	
12/15/93	16:10	-0.743	-23.1	-27.7	-26.5	-47.4	-46.4	-46.9	-53.0	-55.3	-94.1	-63.4	-77.0	-58.7	6.9	-12.8	30.7	-43.8	-44.28	
12/15/93	16:40	-0.722	-24.0	-28.6	-26.5	-47.4	-46.4	-46.9	-53.0	-54.4	-93.2	-62.5	-77.0	-59.5	6.9	-13.6	30.7	-43.8	-44.28	
12/15/93	16:50	-0.716	-24.0	-27.7	-26.5	-46.6	-46.4	-46.0	-52.1	-55.3	-94.1	-63.4	-76.1	-59.5	6.9	-12.7	30.7	-43.8	-44.28	
12/15/93	17:00	-0.708	-23.1	-27.7	-26.5	-46.6	-47.3	-46.9	-52.1	-55.3	-94.1	-62.5	-76.1	-59.5	7.0	-12.7	30.7	-43.8	-44.28	
12/15/93	17:10	-0.701	-23.1	-28.6	-26.5	-47.4	-47.3	-46.9	-52.1	-55.3	-94.1	-63.4	-77.0	-59.5	7.0	-12.7	30.7	-44.7	-45.08	
12/15/93	17:20	-0.694	-23.1	-28.6	-27.4	-47.4	-46.4	-46.9	-53.0	-55.3	-94.1	-64.2	-77.0	-59.5	7.0	-13.6	30.7	-43.8	-45.98	
12/15/93	17:30	-0.687	-24.0	-27.7	-26.5	-48.3	-46.4	-46.9	-53.0	-55.3	-94.1	-63.4	-76.1	-59.5	7.0	-12.7	29.9	-44.7	-45.98	
12/15/93	17:40	-0.681	-23.1	-27.7	-26.5	-47.4	-47.3	-46.0	-52.1	-55.3	-94.1	-63.4	-76.9	-58.7	7.0	-12.7	30.7	-43.8	-45.98	
12/15/93	17:50	-0.674	-24.9	-27.7	-26.5	-46.6	-46.4	-46.9	-53.8	-54.4	-94.9	-62.5	-76.1	-58.7	7.0	-12.7	30.7	-45.5	-46.78	
12/15/93	18:00	-0.667	-23.1	-27.7	-26.5	-47.4	-46.4	-46.9	-52.1	-55.3	-94.1	-62.5	-76.1	-58.7	7.0	-12.7	30.8	-44.7	-47.68	
12/15/93	18:10	-0.660	-24.0	-28.6	-26.5	-47.4	-47.3	-46.9	-54.7	-55.3	-94.9	-63.4	-76.1	-58.7	7.0	-12.7	30.8	-45.5	-47.68	
12/15/93	18:20	-0.653	-22.3	-27.7	-26.5	-47.4	-48.1	-47.8	-53.8	-55.3	-94.1	-63.4	-76.1	-58.7	7.0	-12.7	30.8	-46.4	-47.68	
12/15/93	18:30	-0.646	-24.0	-27.7	-26.5	-49.2	-46.4	-46.9	-54.7	-55.3	-94.9	-63.4	-76.1	-60.4	7.0	-13.6	29.9	-45.5	-47.68	
12/15/93	18:40	-0.639	-24.0	-28.6	-26.5	-48.3	-47.3	-47.8	-54.7	-55.3	-94.9	-63.4	-76.9	-60.4	7.0	-13.6	30.8	-46.4	-47.68	
12/15/93	18:50	-0.632	-24.0	-28.6	-26.5	-47.4	-47.3	-47.8	-53.8	-55.3	-94.9	-63.4	-76.9	-60.4	6.1	-13.6	29.9	-45.5	-48.48	
12/15/93	19:00	-0.625	-23.1	-27.7	-26.5	-48.3	-47.3	-48.7	-53.0	-55.3	-94.9	-63.4	-77.8	-59.5	6.1	-13.6	30.8	-46.4	-48.48	
12/15/93	19:10	-0.618	-24.0	-28.6	-26.5	-48.3	-47.2	-48.7	-53.8	-55.3	-95.8	-63.3	-77.8	-59.5	7.0	-13.6	29.9	-47.2	-47.68	
12/15/93	19:20	-0.611	-24.0	-28.6	-25.7	-47.4	-47.2	-48.7	-53.8	-55.3	-94.9	-63.3	-76.9	-60.4	6.1	-13.5	29.9	-47.2	-48.48	

Table 5. Tensiometer Data

		Tensiometer Data																		
		Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
12/15/93	19:30	-0.604	-24.0	-28.6	-28.3	-47.4	-47.2	-48.7	-54.7	-55.3	-94.9	-62.5	-76.9	-58.7		6.1	-13.5	29.9	-46.3	-48.48
12/15/93	19:40	-0.597	-24.0	-28.6	-28.5	-47.4	-47.2	-46.9	-53.8	-55.3	-94.9	-62.5	-76.9	-60.4		6.2	-13.5	29.9	-46.3	-49.38
12/15/93	19:50	-0.590	-23.1	-27.7	-27.4	-46.6	-47.2	-46.0	-53.8	-55.3	-94.9	-65.1	-77.8	-59.5		6.2	-13.5	29.9	-46.3	-50.18
12/15/93	20:00	-0.583	-22.3	-29.5	-28.5	-47.4	-47.2	-47.8	-53.8	-55.3	-94.9	-64.2	-76.9	-59.5		4.4	-13.5	30.0	-46.3	-49.38
12/15/93	20:10	-0.576	-23.1	-28.6	-28.5	-47.4	-46.4	-46.0	-54.7	-55.3	-94.9	-64.2	-76.9	-60.4		6.2	-13.5	30.0	-47.2	-49.38
12/15/93	20:20	-0.569	-23.1	-28.6	-27.4	-47.4	-47.2	-46.9	-54.7	-55.3	-94.9	-65.1	-77.8	-60.4		6.2	-12.7	30.0	-47.2	-50.18
12/15/93	20:30	-0.562	-24.0	-28.6	-28.5	-48.3	-47.2	-46.9	-53.0	-55.3	-94.9	-64.2	-76.9	-60.4		6.2	-11.8	30.0	-47.2	-51.08
12/15/93	20:40	-0.556	-24.0	-28.6	-27.4	-47.4	-48.1	-47.8	-53.8	-55.3	-94.9	-65.1	-77.8	-60.4		6.2	-12.7	29.1	-47.2	-50.18
12/15/93	20:50	-0.549	-24.0	-28.6	-28.5	-47.4	-48.1	-47.8	-53.8	-55.3	-94.9	-64.2	-76.9	-60.4		5.3	-13.5	30.0	-47.2	-49.28
12/15/93	21:00	-0.542	-24.0	-28.6	-27.4	-47.4	-47.2	-47.8	-53.8	-56.1	-94.1	-64.2	-76.9	-59.5		6.2	-13.5	30.0	-47.2	-50.18
12/15/93	21:10	-0.535	-24.0	-28.6	-27.4	-49.2	-47.2	-46.9	-53.8	-55.3	-94.9	-65.1	-77.8	-60.4		5.3	-11.8	29.1	-48.1	-51.88
12/15/93	21:20	-0.528	-23.1	-28.6	-27.4	-47.4	-48.1	-48.7	-52.1	-55.3	-94.9	-64.2	-76.9	-60.4		7.1	-12.6	30.0	-48.1	-51.08
12/15/93	21:30	-0.521	-24.0	-28.6	-27.4	-47.4	-47.2	-46.0	-52.9	-54.4	-95.8	-64.2	-77.8	-59.5		4.5	-11.8	30.0	-46.9	-51.88
12/15/93	21:40	-0.514	-23.1	-28.6	-27.4	-47.4	-47.2	-46.9	-52.9	-55.3	-95.8	-64.2	-76.9	-59.5		6.2	-12.6	30.0	-47.2	-51.88
12/15/93	21:50	-0.507	-23.1	-28.6	-27.4	-47.4	-47.2	-46.9	-52.1	-56.1	-95.8	-64.2	-76.9	-60.4		6.2	-11.8	30.0	-48.0	-51.88
12/15/93	22:00	-0.500	-24.0	-28.6	-27.4	-47.4	-48.1	-46.9	-52.9	-55.3	-94.9	-64.2	-76.9	-59.5		6.2	-12.6	30.0	-48.0	-51.08
12/15/93	22:10	-0.493	-24.0	-28.6	-28.5	-47.4	-47.2	-46.0	-52.9	-55.2	-95.8	-65.1	-77.8	-59.5		5.3	-12.6	30.0	-49.8	-51.88
12/15/93	22:20	-0.486	-24.0	-28.6	-27.4	-47.4	-47.2	-46.0	-52.9	-55.3	-95.8	-63.3	-76.9	-59.5		6.2	-11.8	29.1	-48.9	-51.88
12/15/93	22:30	-0.479	-24.0	-28.6	-27.4	-47.4	-47.2	-46.0	-52.9	-54.4	-95.8	-64.2	-76.9	-59.5		5.3	-13.5	30.0	-48.0	-52.78
12/15/93	22:40	-0.472	-24.0	-28.6	-27.4	-47.4	-47.2	-46.9	-53.8	-55.2	-95.8	-63.3	-76.9	-60.4		5.3	-12.6	30.0	-48.0	-52.78
12/15/93	22:50	-0.465	-24.0	-28.6	-27.4	-47.4	-47.2	-46.9	-53.8	-55.2	-95.8	-63.3	-77.8	-60.4		6.2	-12.6	28.3	-48.0	-53.58
12/15/93	23:00	-0.458	-24.0	-28.6	-27.4	-47.4	-47.2	-46.9	-53.8	-55.2	-95.8	-63.3	-76.9	-59.5		5.3	-11.8	30.0	-50.6	-52.78
12/15/93	23:10	-0.451	-24.0	-27.7	-27.4	-47.4	-47.2	-46.9	-53.8	-55.2	-95.8	-63.3	-76.9	-59.5		6.2	-11.8	30.0	-48.9	-53.58
12/15/93	23:20	-0.444	-24.0	-28.6	-27.4	-47.4	-47.2	-47.8	-53.8	-54.4	-95.8	-66.0	-76.9	-60.4		7.1	-11.8	30.0	-48.9	-53.58
12/15/93	23:30	-0.437	-24.0	-28.6	-28.3	-47.4	-47.2	-46.9	-52.9	-55.2	-94.9	-64.2	-77.8	-59.5		5.4	-11.8	30.9	-48.0	-53.58
12/15/93	23:40	-0.431	-24.0	-28.6	-27.4	-47.4	-47.2	-46.9	-53.8	-55.2	-95.8	-64.2	-77.8	-60.4		6.2	-11.7	30.0	-48.9	-54.48
12/15/93	23:50	-0.424	-24.0	-28.6	-27.4	-47.4	-48.1	-47.8	-52.9	-55.2	-94.9	-64.2	-76.9	-59.5		4.5	-12.6	30.0	-49.8	-54.48
12/15/93	0:00	-0.417	-24.0	-28.6	-27.4	-47.4	-48.1	-46.9	-53.8	-56.1	-95.8	-64.2	-77.8	-59.5		5.4	-12.6	29.2	-49.8	-54.48
12/15/93	0:10	-0.410	-23.1	-28.6	-27.4	-47.4	-48.1	-46.0	-54.7	-56.1	-95.8	-64.2	-77.8	-59.5		5.4	-13.5	29.2	-48.9	-55.28
12/15/93	0:20	-0.403	-24.0	-28.6	-28.5	-48.3	-47.2	-46.9	-52.9	-55.2	-95.8	-63.3	-76.9	-60.4		4.5	-12.6	30.1	-50.6	-56.18
12/15/93	0:30	-0.396	-24.0	-28.6	-27.4	-47.4	-48.1	-46.9	-52.9	-55.2	-95.8	-64.2	-76.9	-59.5		5.4	-11.7	30.1	-50.6	-56.18
12/15/93	0:40	-0.389	-24.0	-29.5	-27.4	-47.4	-49.0	-47.8	-52.9	-56.1	-95.8	-64.2	-76.9	-60.4		5.4	-11.7	29.2	-50.6	-55.28
12/15/93	0:50	-0.382	-24.0	-28.6	-27.4	-47.4	-48.1	-47.8	-53.8	-55.2	-95.8	-64.2	-78.6	-59.5		5.4	-13.5	29.2	-50.6	-56.18
12/15/93	1:00	-0.375	-24.0	-28.6	-27.4	-47.4	-47.2	-46.9	-52.9	-55.2	-95.8	-64.2	-77.8	-60.4		5.4	-13.5	30.1	-50.6	-57.88
12/15/93	1:10	-0.368	-24.0	-28.6	-27.4	-47.4	-49.0	-46.9	-54.7	-57.0	-95.8	-65.9	-76.9	-59.5		4.5	-13.5	30.1	-50.6	-57.88
12/15/93	1:20	-0.361	-24.0	-28.6	-27.4	-47.4	-47.2	-46.9	-53.8	-55.2	-95.8	-65.9	-76.9	-59.5		4.5	-13.5	30.1	-50.6	-57.88
12/15/93	1:30	-0.354	-24.0	-28.6	-27.4	-47.4	-48.1	-46.9	-52.9	-56.1	-94.9	-64.2	-76.9	-60.4		4.5	-12.6	30.1	-50.6	-57.88
12/15/93	1:40	-0.347	-24.0	-28.6	-27.4	-47.4	-47.2	-46.9	-53.8	-56.1	-95.8	-64.2	-76.0	-59.5		4.5	-13.5	30.1	-50.6	-59.58

Table 5. Tensiometer Data

		Tensiometer Data																		
		Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
12/16/93	1:50	-0.340	-24.0	-28.6	-28.5	-47.4	-48.1	-46.9	-54.7	-56.1	-95.8	-65.1	-76.9	-58.6	5.4	-12.6	30.1	-50.6	-57.88	-57.88
12/16/93	2:00	-0.333	-24.0	-28.6	-27.4	-47.4	-47.2	-47.8	-53.8	-55.2	-95.8	-65.9	-77.8	-60.4	4.5	-12.6	29.2	-50.6	-57.88	-57.88
12/16/93	2:10	-0.326	-24.0	-28.6	-27.4	-47.4	-47.2	-46.9	-52.9	-56.1	-95.8	-64.2	-76.9	-59.5	5.4	-13.5	30.1	-51.5	-57.88	-57.88
12/16/93	2:30	-0.319	-23.1	-28.6	-27.4	-47.4	-47.2	-46.9	-53.8	-56.1	-95.8	-65.9	-78.6	-59.5	7.1	-13.5	28.3	-50.6	-56.98	-56.98
12/16/93	2:30	-0.312	-24.0	-28.6	-27.4	-47.4	-47.2	-47.8	-53.8	-56.1	-95.8	-65.9	-77.8	-60.4	6.3	-11.7	30.1	-50.6	-58.78	-58.78
12/16/93	2:40	-0.306	-23.1	-28.6	-26.5	-47.4	-47.2	-46.9	-52.9	-55.2	-95.8	-65.9	-77.8	-60.4	4.5	-13.5	30.1	-50.6	-59.58	-59.58
12/16/93	2:50	-0.299	-24.0	-28.6	-26.5	-47.4	-47.2	-46.9	-53.8	-56.1	-95.8	-65.1	-76.9	-60.4	5.4	-13.5	30.1	-50.6	-58.78	-58.78
12/16/93	3:00	-0.292	-24.0	-28.6	-27.4	-47.4	-47.2	-46.9	-53.8	-56.1	-95.8	-65.1	-76.9	-60.4	5.4	-13.4	30.1	-50.6	-59.58	-59.58
12/16/93	3:10	-0.285	-24.0	-29.5	-27.4	-47.4	-49.0	-47.8	-53.8	-56.1	-95.8	-65.9	-77.8	-60.4	4.5	-12.6	30.1	-50.6	-59.58	-59.58
12/16/93	3:20	-0.278	-24.0	-28.6	-27.4	-48.3	-48.1	-46.9	-54.7	-56.1	-95.8	-65.1	-77.8	-60.4	6.3	-12.6	30.1	-51.5	-59.58	-59.58
12/16/93	3:30	-0.271	-24.0	-28.6	-27.4	-47.4	-48.1	-46.9	-53.8	-54.4	-95.8	-65.1	-76.9	-60.4	4.5	-11.7	30.1	-50.6	-60.48	-60.48
12/16/93	3:40	-0.264	-24.0	-29.5	-27.4	-47.4	-48.1	-46.9	-54.7	-56.1	-95.8	-64.2	-76.9	-60.4	5.4	-13.4	30.1	-51.5	-59.58	-59.58
12/16/93	3:50	-0.257	-24.0	-28.6	-27.4	-47.4	-49.0	-48.7	-53.8	-57.0	-95.8	-65.1	-76.9	-59.5	4.5	-11.7	30.1	-51.5	-59.58	-59.58
12/16/93	4:00	-0.250	-24.0	-26.9	-27.4	-47.4	-48.1	-46.9	-54.7	-56.1	-95.8	-65.9	-77.8	-60.4	4.5	-12.6	28.3	-50.6	-61.28	-61.28
12/16/93	4:10	-0.243	-24.0	-28.6	-27.4	-47.4	-47.2	-47.8	-53.8	-56.1	-95.8	-65.1	-77.8	-59.5	4.5	-13.4	29.2	-52.3	-61.28	-61.28
12/16/93	4:20	-0.236	-24.0	-28.6	-27.4	-47.4	-47.2	-46.9	-54.7	-56.1	-95.8	-65.9	-76.9	-59.5	4.5	-10.9	29.2	-51.5	-61.28	-61.28
12/16/93	4:30	-0.229	-24.0	-28.6	-27.4	-47.4	-47.2	-46.9	-54.7	-55.2	-95.8	-65.9	-77.8	-59.5	3.7	-10.0	27.5	-53.2	-61.28	-61.28
12/16/93	4:40	-0.222	-24.0	-28.6	-27.4	-47.4	-47.2	-46.0	-52.9	-56.1	-95.8	-65.9	-78.6	-58.6	4.5	-10.8	30.1	-52.3	-62.18	-62.18
12/16/93	4:50	-0.215	-24.0	-28.6	-27.4	-47.4	-47.2	-46.9	-53.8	-56.1	-95.8	-65.9	-76.9	-57.7	4.5	-10.8	29.2	-53.2	-62.18	-62.18
12/16/93	5:00	-0.208	-24.0	-28.6	-27.4	-47.4	-47.2	-46.9	-53.8	-56.1	-95.8	-65.9	-76.9	-57.7	5.4	-10.9	30.1	-53.2	-61.28	-61.28
12/16/93	5:10	-0.201	-24.0	-28.6	-27.4	-47.4	-47.2	-46.0	-52.9	-56.1	-95.8	-65.9	-77.8	-58.6	4.5	-10.8	29.2	-53.2	-62.18	-62.18
12/16/93	5:20	-0.194	-24.0	-28.6	-27.4	-48.3	-47.2	-46.9	-54.7	-56.1	-95.8	-65.1	-76.9	-56.9	5.4	-10.8	29.2	-53.2	-61.28	-61.28
12/16/93	5:30	-0.187	-24.0	-28.6	-27.4	-47.4	-47.2	-46.9	-53.8	-55.2	-95.8	-65.1	-77.8	-57.7	3.7	-10.0	29.2	-54.1	-62.18	-62.18
12/16/93	5:40	-0.181	-24.0	-28.6	-26.5	-47.4	-47.2	-46.9	-54.7	-56.1	-95.8	-65.9	-76.9	-57.7	3.7	-10.8	30.1	-54.1	-61.28	-61.28
12/16/93	5:50	-0.174	-24.0	-27.7	-27.4	-47.4	-47.2	-46.9	-54.7	-56.1	-95.8	-65.1	-77.8	-57.7	7.1	-12.6	29.2	-53.2	-62.18	-62.18
12/16/93	6:00	-0.167	-24.0	-28.6	-27.4	-47.4	-44.7	-46.9	-54.7	-56.1	-95.8	-65.9	-78.6	-57.7	4.5	-10.8	28.4	-52.3	-63.08	-63.08
12/16/93	6:10	-0.160	-24.0	-28.6	-27.4	-47.4	-47.2	-46.9	-53.8	-57.0	-95.8	-65.9	-77.8	-56.9	3.6	-10.8	30.1	-54.1	-62.18	-62.18
12/16/93	6:20	-0.153	-24.0	-28.6	-27.4	-47.4	-49.0	-46.9	-54.7	-56.1	-95.8	-65.9	-77.8	-57.7	4.5	-11.7	29.2	-54.1	-62.98	-62.98
12/16/93	6:30	-0.146	-24.8	-28.6	-27.4	-47.4	-47.2	-46.0	-54.7	-55.2	-95.8	-65.1	-77.8	-57.7	3.7	-10.8	28.4	-54.1	-63.88	-63.88
12/16/93	6:40	-0.139	-22.2	-27.7	-27.4	-48.3	-47.2	-46.9	-54.7	-57.0	-96.7	-65.9	-77.8	-57.7	3.7	-10.8	29.2	-54.1	-62.98	-62.98
12/16/93	6:50	-0.132	-24.0	-28.6	-27.4	-47.4	-47.2	-46.0	-54.7	-55.2	-95.8	-65.1	-77.8	-56.9	3.7	-10.8	28.4	-54.1	-64.78	-64.78
12/16/93	7:00	-0.125	-24.0	-28.6	-27.4	-48.3	-47.2	-46.9	-54.7	-56.1	-95.8	-65.9	-77.8	-59.5	2.8	-10.8	30.1	-54.1	-64.78	-64.78
12/16/93	7:10	-0.118	-24.0	-29.5	-27.4	-47.4	-47.2	-46.9	-54.7	-56.1	-95.8	-65.9	-77.8	-57.7	3.7	-10.8	28.4	-54.1	-64.78	-64.78
12/16/93	7:20	-0.111	-24.0	-29.5	-27.4	-47.4	-49.0	-47.8	-53.8	-56.1	-95.8	-65.1	-76.9	-57.7	4.5	-11.7	30.1	-55.8	-64.78	-64.78
12/16/93	7:30	-0.104	-24.8	-28.6	-27.4	-47.4	-47.2	-46.9	-54.7	-56.1	-95.8	-65.9	-77.8	-58.6	4.5	-10.8	28.4	-54.1	-65.58	-65.58
12/16/93	7:40	-0.097	-24.0	-28.6	-27.4	-47.4	-47.2	-46.9	-54.7	-56.1	-95.8	-65.9	-77.8	-59.5	3.7	-10.8	27.5	-54.1	-64.78	-64.78
12/16/93	7:50	-0.090	-24.0	-28.6	-27.4	-47.4	-47.2	-46.9	-54.7	-56.1	-95.8	-65.9	-77.8	-57.7	3.7	-10.8	27.5	-54.1	-65.58	-65.58
12/16/93	8:00	-0.083	-24.0	-28.6	-27.4	-47.4	-47.2	-46.0	-54.7	-56.1	-95.8	-65.9	-77.8	-57.7	5.4	-10.8	28.4	-54.1	-65.58	-65.58

Table 5. Tensiometer Data

			Tensiometer Data																	
		Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
12/16/93	8:10	-0.076	-24.0	-28.6	-27.4	-48.3	-47.2	-46.0	-53.8	-54.4	-95.8	-85.9	-76.9	-57.7		5.4	-10.8	28.4	-54.1	-68.18
12/16/93	8:20	-0.069	-23.1	-28.6	-27.4	-47.4	-47.2	-46.0	-54.7	-55.2	-94.9	-85.9	-76.0	-57.7		5.4	-10.8	27.5	-54.1	-66.48
12/16/93	8:30	-0.062	-24.0	-28.6	-26.5	-47.4	-48.1	-46.9	-53.8	-55.2	-95.8	-85.9	-77.8	-57.7		5.4	-10.8	28.4	-54.1	-66.48
12/16/93	8:40	-0.056	-24.0	-28.6	-27.4	-47.4	-47.2	-46.9	-53.8	-54.4	-95.8	-85.9	-76.9	-57.7		5.4	-10.0	27.5	-54.1	-67.38
12/16/93	8:50	-0.049	-24.0	-28.6	-27.4	-47.4	-46.4	-45.2	-53.8	-54.4	-95.8	-85.9	-76.9	-57.7		5.4	-10.0	27.5	-54.1	-68.18
12/16/93	9:00	-0.042	-24.0	-27.7	-27.4	-47.4	-47.2	-46.9	-53.8	-54.4	-95.8	-85.9	-76.9	-57.7		4.5	-10.0	27.5	-54.1	-67.38
12/16/93	9:10	-0.035	-23.1	-28.6	-27.4	-47.4	-47.2	-46.0	-53.8	-55.2	-95.8	-85.9	-76.9	-56.9		5.4	-10.9	29.2	-54.1	-68.18
12/16/93	9:20	-0.028	-24.0	-28.6	-26.5	-47.4	-48.1	-46.0	-52.9	-54.4	-95.8	-85.9	-76.9	-57.7		5.4	-10.9	27.4	-54.1	-68.18
12/16/93	9:30	-0.021	-23.1	-28.6	-27.4	-47.4	-47.2	-46.0	-53.8	-54.4	-95.8	-85.9	-76.9	-56.9		5.4	-10.9	28.3	-54.1	-68.18
12/16/93	9:40	-0.014	-23.1	-28.6	-27.4	-47.4	-47.2	-46.9	-54.7	-55.2	-95.8	-85.1	-76.9	-57.7		6.2	-11.7	27.4	-54.1	-68.18
12/16/93	9:50	-0.007	-23.1	-27.7	-27.4	-47.4	-47.2	-46.0	-54.7	-55.2	-95.8	-85.9	-76.9	-56.9		5.4	-10.9	28.3	-55.0	-67.38
12/16/93	10:00	0.000	-24.0	-28.6	-25.7	-47.4	-47.2	-46.9	-52.9	-53.5	-95.8	-85.9	-76.9	-57.7		6.2	-10.9	28.3	-55.0	-68.18
12/16/93	10:10	0.007	-24.0	-27.7	-26.5	-47.4	-47.2	-46.0	-52.9	-55.2	-95.8	-85.9	-76.9	-57.7		5.4	-10.9	28.3	-55.0	-69.08
12/16/93	10:20	0.014	-23.1	-27.7	-24.8	-45.7	-45.5	-46.0	-52.1	-52.6	-95.8	-85.9	-76.9	-57.8		5.4	-10.0	28.3	-55.0	-69.98
12/16/93	10:30	0.021	-23.1	-26.9	-26.5	-47.4	-46.4	-45.2	-53.8	-55.2	-95.8	-67.7	-77.8	-57.8		4.5	-10.9	27.4	-55.9	-69.98
12/16/93	10:40	0.028	-21.4	-26.0	-24.8	-45.7	-44.7	-45.2	-52.9	-52.6	-94.9	-85.9	-76.9	-57.8		6.2	-10.9	26.5	-55.9	-70.78
12/16/93	10:50	0.035	-21.4	-26.9	-24.8	-44.8	-44.7	-46.0	-52.9	-53.5	-94.9	-68.0	-75.2	-56.9		5.3	-10.0	27.4	-55.9	-71.68
12/16/93	11:00	0.042	-21.4	-26.0	-23.9	-45.7	-44.7	-45.2	-52.1	-52.6	-94.9	-66.0	-76.9	-57.8		6.2	-10.9	26.5	-55.9	-72.58
12/16/93	11:10	0.049	-21.4	-25.1	-23.1	-44.8	-43.8	-42.6	-51.2	-51.7	-94.9	-85.1	-74.3	-57.8		6.2	-10.0	27.4	-56.8	-73.38
12/16/93	11:20	0.056	-21.4	-25.1	-23.1	-44.8	-44.7	-43.4	-51.2	-51.7	-93.2	-64.2	-73.5	-56.0		6.2	-10.1	29.1	-55.9	-73.38
12/16/93	11:30	0.063	-21.4	-25.1	-23.1	-44.8	-43.8	-42.6	-51.2	-51.7	-94.1	-64.2	-73.5	-56.0		6.2	-10.1	27.4	-55.9	-72.58
12/16/93	11:40	0.069	-21.4	-25.1	-23.1	-44.8	-43.8	-42.6	-51.2	-51.7	-94.1	-62.5	-74.3	-55.1		6.2	-10.1	29.1	-55.9	-73.48
12/16/93	11:50	0.076	-21.4	-24.3	-23.1	-44.8	-43.8	-42.6	-52.1	-51.7	-94.1	-64.2	-74.3	-54.3		7.0	-9.2	27.4	-56.8	-73.48
12/16/93	12:00	0.083	-20.5	-24.3	-22.2	-44.8	-42.9	-39.1	-51.2	-50.8	-94.1	-63.3	-73.5	-54.3	-311.0	7.9	-8.3	29.1	-55.9	-73.48
12/16/93	12:10	0.090	-20.5	-22.5	-20.4	-44.8	-43.8	-39.1	-50.4	-50.8	-92.3	-63.3	-74.3	-53.4	-220.0	7.0	-7.5	27.3	-55.9	-73.48
12/16/93	12:20	0.097	-20.5	-20.8	-17.8	-43.9	-42.9	-35.6	-51.2	-48.2	-91.5	-62.5	-72.6	-50.7	-217.4	7.0	-6.8	28.2	-55.9	-74.28
12/16/93	12:30	0.104	-19.6	-19.1	-14.3	-43.1	-42.1	-32.1	-51.2	-48.2	-90.6	-61.6	-71.7	-47.2	-223.4	7.9	-5.8	29.1	-55.9	-75.18
12/16/93	12:40	0.111	-19.6	-13.9	-9.1	-43.9	-39.5	-29.5	-51.2	-44.7	-89.7	-63.3	-69.1	-47.2	-239.9	7.9	-4.0	27.3	-55.9	-74.28
12/16/93	12:50	0.118	-17.9	-9.5	-3.9	-43.9	-36.0	-26.0	-51.2	-41.1	-88.0	-66.0	-66.5	-43.7	-220.0	10.5	-3.2	26.5	-55.9	-75.98
12/16/93	13:00	0.125	-17.9	-4.3	1.4	-42.2	-30.0	-21.6	-49.5	-34.9	-86.2	-64.2	-60.4	-41.1	-231.2	12.3	-1.5	28.2	-55.9	-74.28
12/16/93	13:10	0.132	-17.9	1.7	8.3	-41.3	-24.0	-17.3	-47.8	-30.5	-83.6	-61.6	-55.2	-36.7	-235.6	14.0	0.3	28.2	-55.9	-75.18
12/16/93	13:20	0.139	-17.9	6.9	12.7	-41.3	-16.2	-11.1	-47.8	-27.0	-82.8	-61.6	-51.7	-33.2	-240.8	14.9	1.1	29.1	-55.0	-75.18
12/16/93	13:30	0.146	-17.9	11.3	15.3	-40.5	-13.6	-9.4	-47.8	-23.5	-81.9	-61.6	-49.1	-29.7	-243.4	16.6	3.7	29.1	-54.2	-73.48
12/16/93	13:40	0.153	-17.0	13.9	18.8	-38.7	-11.9	-7.7	-47.8	-19.9	-81.0	-62.5	-45.7	-27.9	-244.2	17.5	4.6	28.2	-54.2	-72.58
12/16/93	13:50	0.160	-14.4	15.6	20.5	-37.9	-8.5	-4.2	-46.0	-16.1	-81.0	-60.7	-43.1	-26.2	-246.8	18.3	6.3	29.9	-52.4	-73.48
12/16/93	14:00	0.167	-14.4	19.1	22.3	-34.4	-5.0	-0.7	-46.0	-16.4	-81.0	-59.8	-41.3	-25.3	-249.4	19.2	7.2	29.9	-52.4	-72.58
12/16/93	14:10	0.174	-11.0	20.8	24.0	-30.9	-3.3	1.1	-43.4	-13.7	-79.3	-58.1	-38.7	-23.5	-252.0	21.0	8.0	29.9	-51.6	-71.78
12/16/93	14:20	0.181	-4.0	22.5	25.8	-24.0	0.2	2.8	-40.0	-11.9	-79.3	-57.2	-37.9	-22.7	-252.0	21.0	8.8	29.1	-50.7	-71.78

Table 5. Tensiometer Data

		Tensiometer Data																		
		Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
12/15/93	14:30	0.188	6.4	26.0	27.5	-17.0	3.8	6.3	-33.9	-11.1	-79.3	-54.6	-37.0	-20.9	-248.6	22.7	9.8	30.8	-49.8	-71.78
12/15/93	14:40	0.194	23.8	26.9	29.3	-0.5	5.3	6.3	-20.0	-10.2	-79.3	-47.6	-32.7	-19.2	-245.1	23.6	10.6	31.7	-49.0	-69.98
12/15/93	14:50	0.201	34.2	27.7	31.0	7.3	7.1	9.8	-7.9	-7.5	-78.4	-36.2	-31.8	-18.3	-236.2	24.4	11.5	33.4	-49.0	-69.98
12/15/93	15:00	0.208	33.3	28.5	30.1	7.3	7.9	9.8	-6.2	-5.8	-78.4	-28.4	-30.1	-17.4	-231.2	24.4	12.3	35.2	-47.2	-69.98
12/15/93	15:10	0.215	34.2	29.5	32.7	7.3	8.8	9.8	-4.4	-4.9	-78.4	-24.9	-30.1	-17.4	-228.6	24.4	13.2	36.9	-47.2	-69.98
12/15/93	15:20	0.222	34.2	30.3	32.7	9.0	10.5	9.8	-1.8	-4.9	-79.3	-23.1	-29.2	-15.7	-223.4	25.3	13.2	37.8	-47.2	-69.16
12/15/93	15:30	0.229	35.0	31.2	32.7	10.7	11.3	9.8	-1.0	-5.8	-78.4	-22.3	-28.3	-15.7	-223.4	27.1	14.1	40.4	-44.6	-68.28
12/15/93	15:40	0.236	37.7	32.9	32.7	11.6	12.2	12.4	0.8	-3.1	-78.4	-20.5	-27.5	-15.7	-218.2	27.1	14.1	40.4	-45.5	-68.28
12/15/93	15:50	0.243	37.7	32.9	35.4	14.2	13.0	13.2	1.6	-2.2	-78.4	-20.5	-26.6	-14.8	-217.3	26.2	14.1	41.3	-42.9	-68.28
12/15/93	16:00	0.250	41.1	34.7	36.2	15.1	13.0	13.2	3.3	-1.3	-78.4	-18.8	-25.7	-13.9	-213.0	27.9	14.9	42.2	-43.7	-68.28
12/15/93	16:10	0.257	41.1	34.7	36.2	15.9	15.6	15.0	4.2	-1.3	-78.4	-17.9	-25.7	-13.0	-209.5	27.9	14.9	43.9	-43.8	-68.28
12/15/93	16:20	0.264	41.1	36.4	38.8	17.7	16.5	15.9	5.1	1.3	-78.4	-17.0	-24.0	-13.0	-207.8	27.9	14.9	44.8	-43.8	-68.28
12/15/93	16:30	0.271	44.6	36.4	39.7	18.5	17.3	17.6	6.8	2.2	-78.4	-15.3	-23.1	-12.2	-202.6	27.9	14.9	44.8	-43.8	-68.28
12/15/93	16:40	0.278	44.6	37.3	39.7	19.4	18.2	18.5	7.7	2.2	-78.4	-12.7	-23.1	-12.2	-200.0	27.9	16.6	46.5	-42.0	-68.28
12/15/93	16:50	0.285	44.6	38.1	39.7	22.0	19.1	17.6	8.5	4.8	-77.6	-8.3	-22.3	-11.3	-206.3	29.6	16.6	49.1	-40.3	-66.58
12/15/93	17:00	0.292	45.4	39.8	39.7	22.0	19.9	19.3	8.5	4.8	-78.4	-8.3	-20.5	-10.4	-454.1	27.9	18.4	48.3	-40.3	-65.68
12/15/93	17:10	0.299	45.4	39.8	41.4	22.0	19.1	18.5	10.3	4.8	-78.4	-8.3	-21.4	-9.5	-439.4	29.7	18.6	49.1	-40.3	-65.68
12/15/93	17:20	0.306	48.0	40.7	41.4	23.7	22.5	19.4	12.0	5.7	-79.3	-7.4	-20.5	-8.7	-442.9	28.8	16.6	50.0	-40.3	-66.58
12/15/93	17:30	0.313	48.0	42.4	42.3	23.7	21.7	19.4	11.1	5.7	-80.2	-7.4	-19.7	-8.7	-447.2	28.8	17.5	48.3	-43.8	-68.28
12/15/93	17:40	0.319	49.8	42.4	43.2	24.6	23.4	23.7	10.3	6.6	-80.2	-8.3	-18.8	-8.6	-442.0	29.7	18.4	49.2	-40.3	-66.58
12/15/93	17:50	0.326	50.7	42.5	44.1	26.4	23.4	23.7	12.0	7.5	-80.2	-7.4	-17.9	-7.8	-438.5	31.4	17.5	48.3	-40.3	-67.38
12/15/93	18:00	0.333	52.4	44.2	44.9	29.0	25.1	24.6	13.7	8.4	-80.2	-6.5	-17.9	-6.0	15.2	31.4	18.4	49.2	-39.4	-67.38
12/15/93	18:10	0.340	52.4	44.2	46.7	29.8	26.8	24.6	14.6	8.4	-80.2	-5.7	-16.2	-6.0	16.9	31.4	20.1	50.9	-39.4	-66.58
12/15/93	18:20	0.347	54.1	45.9	46.7	29.8	28.6	26.3	15.5	10.1	-80.2	-4.8	-15.3	-4.3	16.1	33.2	20.1	51.0	-37.6	-66.58
12/15/93	18:30	0.354	54.1	46.8	47.6	31.6	28.6	26.3	17.2	11.0	-80.2	-3.9	-15.3	-4.3	16.1	33.2	19.3	52.7	-38.5	-67.38
12/15/93	18:40	0.361	54.1	47.7	49.3	32.4	28.6	28.1	18.1	11.9	-80.2	-3.9	-14.4	-3.4	17.8	32.3	20.1	51.8	-39.4	-66.58
12/15/93	18:50	0.368	54.1	47.7	49.3	32.4	31.2	29.0	19.0	13.7	-80.2	-3.0	-14.4	-3.4	17.8	34.1	21.0	53.6	-38.5	-66.58
12/15/93	19:00	0.375	55.9	49.4	50.2	33.3	32.0	29.8	19.8	13.7	-79.3	-1.3	-13.6	-1.8	17.8	33.2	21.9	53.6	-37.6	-66.58
12/15/93	19:10	0.382	59.4	50.3	50.2	34.2	32.0	30.7	20.7	13.7	-79.3	-0.4	-12.7	-1.8	18.7	33.2	22.7	53.6	-37.6	-66.58
12/15/93	19:20	0.389	59.4	51.1	51.1	35.9	32.0	30.7	21.6	13.7	-80.2	0.5	-11.0	0.1	18.7	34.1	22.7	54.5	-37.6	-66.58
12/15/93	19:30	0.396	59.4	50.3	51.9	35.9	32.0	32.5	21.6	16.3	-80.2	1.3	-11.0	-0.7	21.3	34.1	23.6	55.4	-37.6	-66.58
12/15/93	19:40	0.403	61.1	51.1	52.8	35.9	34.6	32.5	22.4	17.2	-80.2	2.2	-10.9	-0.7	21.3	34.1	23.6	55.4	-36.7	-66.58
12/15/93	19:50	0.410	60.2	51.1	52.8	36.8	34.6	33.3	23.3	17.2	-79.3	3.1	-10.1	-0.7	20.4	34.1	23.6	55.4	-35.9	-68.28
12/15/93	20:00	0.417	61.1	52.9	51.9	38.8	34.6	34.2	24.2	17.2	-80.2	4.0	-9.2	0.1	20.4	33.2	23.6	55.4	-36.7	-66.48
12/15/93	20:10	0.424	62.8	52.9	54.5	38.5	35.5	34.2	24.2	18.1	-81.0	4.0	-10.1	1.0	21.3	35.0	22.8	56.3	-35.9	-66.48
12/15/93	20:20	0.431	62.8	52.9	56.3	38.6	36.4	36.0	25.9	18.1	-81.0	4.0	-8.3	1.9	22.2	35.8	23.6	57.1	-35.9	-67.38
12/15/93	20:30	0.438	63.7	55.5	56.3	39.4	36.4	36.0	24.2	19.9	-81.0	4.8	-7.5	2.8	23.0	35.8	24.5	58.0	-35.8	-66.48
12/15/93	20:40	0.444	63.7	56.4	56.3	39.4	36.1	36.0	25.9	20.8	-81.0	6.6	-7.5	2.8	23.1	35.9	25.4	58.0	-35.0	-66.48

Table 5. Tensiometer Data

			Tensiometer Data																	
		Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
12/16/93	20:50	0.451	63.7	55.5	57.2	38.6	37.2	36.8	26.8	19.9	-81.9	5.7	-7.5	3.7	23.9	36.7	26.2	58.0	-35.8	-67.38
12/16/93	21:00	0.458	65.5	58.1	58.0	39.4	38.9	36.8	27.7	20.8	-81.0	6.6	-6.6	2.8	23.9	36.7	26.2	58.0	-35.8	-66.48
12/16/93	21:10	0.465	64.6	57.2	58.9	40.3	38.1	37.7	27.7	20.8	-81.9	7.5	-6.6	3.7	23.9	36.7	27.1	58.0	-34.1	-67.38
12/16/93	21:20	0.472	65.5	58.1	58.9	41.2	39.0	38.6	27.7	21.6		7.5	-5.7	3.7	23.9	36.7	26.2	58.0	-35.8	-68.18
12/16/93	21:30	0.479	66.3	58.1	59.8	42.0	39.0	41.2	27.7	21.7		7.5	-4.0	5.4	24.8	37.6	26.3	58.1	-35.0	-67.38
12/16/93	21:40	0.486	67.2	58.1	59.8	42.0	39.8	39.5	27.7	21.7		9.2	-4.8	5.4	24.8	37.6	27.1	58.9	-35.0	-67.38
12/16/93	21:50	0.493	66.3	59.0	59.8	42.9	39.0	38.6	28.5	24.3		8.4	-4.0	6.3	24.8	37.6	27.1	58.9	-35.0	-66.18
12/16/93	22:00	0.500	67.2	59.8	60.7	42.9	41.5	40.3	29.4	24.3		10.1	-4.0	6.3	25.7	37.6	28.9	60.7	-35.0	-68.18
12/16/93	22:10	0.507	68.1	59.0	60.7	42.9	41.5	40.3	30.3	23.4		11.0	-3.1	6.3	26.5	38.5	28.0	61.6	-33.2	-68.18
12/16/93	22:20	0.514	68.9	60.7	62.4	43.8	42.4	41.2	30.3	25.2		11.0	-2.2	6.3	25.7	38.5	28.0	61.6	-34.9	-68.18
12/16/93	22:30	0.521	68.9	61.6	62.4	42.9	42.4	41.2	31.1	25.2		11.0	-2.2	6.3	26.5	38.5	28.9	61.6	-34.1	-68.18
12/16/93	22:40	0.528	68.9	62.4	63.3	45.5	42.4	41.2	31.1	25.2		11.9	-2.2	7.2	27.4	37.6	30.6	62.5	-34.1	-66.18
12/16/93	22:50	0.535	68.9	61.6	63.3	46.4	42.4	42.1	31.1	26.1		11.0	0.4	8.9	28.3	39.4	30.6	61.6	-33.2	-68.18
12/16/93	23:00	0.542	69.8	62.4	63.3	46.4	43.3	43.0	32.0	27.8		12.7	-0.5	8.9	27.4	38.5	30.6	60.7	-33.2	-68.18
12/16/93	23:10	0.549	69.8	61.6	64.2	45.5	44.1	43.0	32.0	27.8		12.7	-0.5	8.1	27.4	39.4	29.7	61.6	-34.1	-68.18
12/16/93	23:20	0.556	69.8	63.3	63.3	46.4	43.3	43.8	33.7	26.1		14.5	-0.5	9.8	28.3	38.5	30.6	61.6	-32.3	-67.38
12/16/93	23:30	0.563	69.8	64.2	63.3	46.4	45.0	44.7	33.7	28.7		13.6	-1.4	9.8	29.1	40.3	30.6	61.6	-33.2	-68.18
12/16/93	23:40	0.569	69.0	63.3	64.2	47.3	45.0	44.7	32.9	28.7		14.5	1.3	9.8	29.2	40.3	30.6	63.3	-33.2	-68.18
12/16/93	23:50	0.576	71.6	64.2	65.1	47.3	45.9	45.6	33.7	28.7		14.5	1.3	10.7	29.2	40.3	30.6	63.3	-33.2	-69.08
12/17/93	0:00	0.583	70.7	65.1	65.9	47.3	45.0	44.7	33.7	29.6		14.5	1.3	9.8	29.2	41.1	30.6	63.3	-33.2	-68.18
12/17/93	0:10	0.590	72.4	65.1	65.1	49.0	45.9	45.6	34.6	28.7		15.4	2.1	10.7	29.2	40.3	30.6	64.2	-33.2	-69.08
12/17/93	0:20	0.597	72.4	65.1	65.9	49.0	45.9	46.4	34.6	30.5		15.4	2.1	11.6	29.2	41.1	31.5	65.1	-33.2	-69.88
12/17/93	0:30	0.604	72.4	65.1	66.8	49.0	46.7	46.5	35.5	31.4		16.2	2.1	11.6	30.0	41.1	31.5	64.2	-33.2	-69.08
12/17/93	0:40	0.611	72.4	65.9	65.9	49.0	47.6	47.3	36.4	31.4		17.1	1.3	12.5	30.9	41.1	31.5	64.2	-33.2	-69.08
12/17/93	0:50	0.618	72.4	66.8	66.8	49.0	48.5	48.2	35.5	31.4		18.0	2.1	12.5	30.9	42.0	32.3	65.1	-32.3	-68.18
12/17/93	1:00	0.625	73.3	65.9	66.8	49.9	48.5	48.2	35.5	32.3		18.0	3.0	12.5	31.8	42.0	31.5	66.0	-33.2	-69.08
12/17/93	1:10	0.632	73.3	67.7	67.7	49.9	47.6	48.2	36.4	32.3		18.0	3.9	13.3	31.8	42.0	33.2	66.0	-33.2	-69.08
12/17/93	1:20	0.639	73.3	65.9	67.7	50.8	49.3	48.2	36.4	32.3		18.0	3.9	13.3	30.9	42.0	33.2	66.0	-33.2	-69.08
12/17/93	1:30	0.646	74.2	67.7	67.7	50.8	49.3	49.1	37.2	33.2		18.9	4.7	13.3	32.6	42.0	34.1	66.0	-32.3	-69.08
12/17/93	1:40	0.653	74.2	67.7	68.5	51.6	50.2	49.1	38.1	32.3		18.0	4.7	13.3	32.6	42.9	34.1	66.0	-32.3	-69.88
12/17/93	1:50	0.660	74.2	68.5	66.8	51.6	50.2	49.9	39.0	34.0		19.7	4.7	15.1	32.6	42.0	33.2	66.9	-32.3	-69.88
12/17/93	2:00	0.667	75.0	67.7	68.5	52.5	50.2	49.9	39.0	34.0		18.9	5.6	16.0	32.6	42.9	34.1	66.9	-31.4	-69.88
12/17/93	2:10	0.674	75.9	66.8	68.6	52.5	50.2	50.8	37.2	34.9		19.7	5.6	16.0	33.5	42.0	34.9	66.9	-30.6	-69.88
12/17/93	2:20	0.681	75.9	68.5	68.6	52.5	51.1	51.7	39.0	34.9		19.7	6.5	16.8	33.5	43.8	34.9	66.9	-31.4	-69.88
12/17/93	2:30	0.688	75.9	70.3	69.4	52.5	51.1	51.7	39.0	34.9		21.5	6.5	16.0	34.4	43.8	34.9	68.6	-32.3	-70.78
12/17/93	2:40	0.694	75.9	68.5	70.3	52.5	51.1	51.7	38.1	35.8		21.5	7.3	16.8	33.5	44.7	34.9	68.6	-31.4	-69.88
12/17/93	2:50	0.701	75.9	69.4	70.3	53.4	51.1	52.6	39.0	37.6		22.4	7.3	16.8	35.2	43.8	34.9	69.5	-31.4	-69.88
12/17/93	3:00	0.708	75.9	71.1	71.2	53.4	51.9	51.7	40.7	35.8		21.5	8.2	16.8	35.2	44.7	34.9	68.6	-31.4	-71.68

Table 5. Tensiometer Data

		Tensiometer Data																		
		Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
12/17/93	3:10	0.715	75.9	70.3	71.2	53.4	51.9	51.7	41.6	35.8		21.5	8.2	16.0	35.2	45.5	34.9	66.6	-32.3	-71.58
12/17/93	3:20	0.722	76.8	70.3	71.2	53.4	52.8	52.6	41.6	36.7		21.5	9.1	16.9	35.2	45.5	35.8	66.6	-33.2	-71.68
12/17/93	3:30	0.729	76.8	70.3	71.2	55.1	52.6	54.3	41.6	35.8		22.4	7.4	17.7	35.2	46.4	35.8	69.5	-31.4	-71.58
12/17/93	3:40	0.736	77.7	71.1	71.2	54.2	51.1	52.6	41.6	37.6		22.4	8.2	17.7	36.1	43.8	35.8	66.6	-32.3	-71.58
12/17/93	3:50	0.743	77.7	71.1	71.2	56.0	53.7	54.3	42.4	38.5		24.1	9.1	19.5	36.1	45.5	36.7	66.6	-31.4	-71.58
12/17/93	4:00	0.750	78.5	72.0	71.2	55.1	53.7	54.3	40.7	37.6		22.4	9.1	19.5	35.2	44.7	35.8	69.5	-31.4	-71.68
12/17/93	4:10	0.757	79.4	71.1	71.2	56.0	53.7	55.2	42.4	38.5		23.2	10.0	18.6	36.1	45.5	37.6	69.5	-31.4	-70.78
12/17/93	4:20	0.764	78.5	72.0	71.2	56.0	53.7	55.2	42.4	39.3		24.1	9.1	19.5	35.2	43.8	37.6	69.5	-32.3	-72.48
12/17/93	4:30	0.771	79.4	72.0	72.1	55.1	54.5	55.2	42.4	38.5		25.0	10.8	19.5	36.1	45.5	35.8	69.5	-30.5	-71.58
12/17/93	4:40	0.778	79.4	72.0	72.9	56.0	55.4	55.2	43.3	38.5		25.0	10.0	19.5	36.1	45.6	37.6	69.5	-31.4	-72.48
12/17/93	4:50	0.785	78.5	72.9	73.8	56.0	54.5	56.1	43.3	39.4		25.0	10.8	19.5	36.1	45.5	36.7	69.5	-30.5	-72.48
12/17/93	5:00	0.792	79.4	72.0	73.8	56.0	54.5	55.2	43.3	39.4		25.0	11.7	19.5	36.1	45.6	37.6	70.4	-31.4	-71.58
12/17/93	5:10	0.799	79.4	72.9	72.1	56.0	55.4	54.3	44.2	40.2		25.0	11.7	20.4	37.8	45.6	38.4	69.5	-31.4	-71.58
12/17/93	5:20	0.806	79.4	72.9	73.8	56.9	56.3	56.1	44.2	39.4		25.0	12.6	21.2	37.8	45.6	37.6	72.2	-31.4	-72.48
12/17/93	5:30	0.813	79.4	72.9	73.8	56.9	56.3	56.7	44.2	40.2		25.0	12.6	22.1	38.7	47.3	38.4	71.3	-30.5	-71.58
12/17/93	5:40	0.819	79.4	73.8	74.7	56.8	56.3	56.1	45.1	40.2		25.9	12.6	21.2	39.6	46.4	38.4	72.2	-29.7	-71.58
12/17/93	5:50	0.826	79.4	73.8	75.6	57.7	57.1	56.9	43.3	41.1		25.9	12.6	23.0	39.6	45.6	38.4	72.2	-30.5	-71.58
12/17/93	6:00	0.833	80.3	74.6	74.7	56.8	56.3	56.7	45.1	41.1		26.8	12.6	23.0	38.7	47.3	38.4	71.3	-30.5	-72.48
12/17/93	6:10	0.840	81.1	74.6	74.7	57.7	57.1	56.7	45.1	41.1		27.6	13.5	23.0	38.7	49.9	37.6	71.3	-29.7	-71.58
12/17/93	6:20	0.847	81.1	74.6	74.7	56.8	57.1	56.7	45.9	42.0		26.8	13.5	23.0	38.7	49.0	39.3	73.0	-29.7	-72.48
12/17/93	6:30	0.854	80.3	74.6	74.7	60.4	56.3	56.7	45.9	42.0		27.6	13.5	23.0	39.6	49.1	40.2	73.0	-29.7	-73.38
12/17/93	6:40	0.861	82.0	74.6	74.7	59.5	56.0	56.7	45.9	42.0		27.6	14.3	23.0	39.6	48.2	40.2	73.1	-29.7	-72.48
12/17/93	6:50	0.868	81.2	72.9	74.7	60.4	56.9	57.6	45.9	43.8		28.5	14.3	23.0	39.6	49.1	39.3	72.2	-29.7	-72.48
12/17/93	7:00	0.875	81.2	74.6	74.7	59.5	56.9	56.7	45.9	42.9		28.5	14.3	24.8	40.5	49.1	40.2	72.2	-30.5	-70.78
12/17/93	7:10	0.882	82.0	73.8	75.6	59.5	57.1	56.6	47.7	43.8		27.6	13.5	23.9	39.6	49.1	39.3	72.2	-29.7	-72.48
12/17/93	7:20	0.889	82.9	74.6	75.6	59.5	56.9	56.7	47.7	43.8		28.5	15.2	23.9	39.6	49.1	41.0	73.1	-29.6	-73.28
12/17/93	7:30	0.896	82.9	75.5	76.4	59.5	56.7	56.6	47.7	43.8		28.5	16.1	23.9	40.5	48.2	41.0	72.2	-29.6	-72.48
12/17/93	7:40	0.903	82.9	75.5	75.6	59.5	56.9	60.4	48.5	43.8		28.5	16.1	23.9	39.6	49.1	41.9	73.1	-30.5	-73.28
12/17/93	7:50	0.910	82.9	76.4	75.6	60.4	56.9	61.3	48.5	44.7		28.5	16.1	24.8	39.6	49.1	41.0	73.1	-29.6	-75.08
12/17/93	8:00	0.917	82.9	75.5	76.4	56.8	60.6	61.3	48.5	44.7		28.5	16.1	26.3	39.6	49.1	41.0	73.1	-29.6	-75.08
12/17/93	8:10	0.924	82.9	77.2	77.3	60.4	60.6	62.2	49.4	44.7		28.5	16.1	26.5	39.6	49.1	41.9	73.1	-29.7	-75.08
12/17/93	8:20	0.931	82.9	76.4	78.2	62.1	60.6	61.3	49.4	44.7		27.6	16.7	26.5	39.6	49.9	41.9	73.1	-29.7	-75.08
12/17/93	8:30	0.938	82.9	78.1	78.2	61.2	61.4	62.2	49.4	45.5		28.5	16.7	26.5	39.6	49.0	41.9	72.2	-29.7	-74.18
12/17/93	8:40	0.944	82.9	77.2	78.2	61.2	56.7	63.9	49.4	45.5		28.5	17.8	26.5	39.6	51.7	41.9	73.0	-29.7	-75.08
12/17/93	8:50	0.951	82.9	77.2	78.2	62.1	61.4	62.2	50.2	46.4		26.7	16.9	27.4	39.6	51.6	41.9	72.1	-30.5	-75.08
12/17/93	9:00	0.958	82.9	78.1	78.2	62.9	62.3	62.2	51.1	45.5		27.6	19.5	27.4	40.4	50.8	41.9	72.1	-29.7	-75.08
12/17/93	9:10	0.965	84.6	78.9	79.9	62.9	62.3	63.9	52.0	46.4		28.5	19.5	27.4	42.1	51.6	43.6	73.0	-29.7	-75.08
12/17/93	9:20	0.972	84.6	78.9	80.8	63.8	63.1	63.9	51.9	47.3		28.5	20.4	27.4	42.1	52.5	44.4	75.6	-29.7	-75.98

Table 5. Tensiometer Data

			Tensiometer Data																	
		Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
12/17/93	9:30	0.979	84.6	78.9	80.8	63.8	63.1	63.9	51.9	48.2		29.3	20.3	28.2	40.4	51.6	44.4	74.7	-29.7	-75.08
12/17/93	9:40	0.986	84.6	78.9	80.7	63.8	63.1	64.8	51.9	49.9		28.5	21.2	30.0	40.4	52.5	44.4	73.8	-29.7	-75.08
12/17/93	9:50	0.993	86.3	78.9	80.7	64.6	64.0	65.6	51.9	49.9		28.5	20.3	30.0	42.1	53.3	44.4	72.9	-29.7	-76.88
12/17/93	10:00	1.000	85.4	79.8	80.7	64.6	65.7	65.6	52.8	49.9		28.5	22.0	30.0	42.1	53.3	44.4	72.9	-29.7	-75.98
12/17/93	10:10	1.007	86.3	80.6	82.5	64.6	64.8	65.6	52.8	50.8		28.4	22.9	30.0	41.2	53.3	44.4	73.8	-29.8	-76.88
12/17/93	10:20	1.014	86.3	81.5	82.5	64.6	65.7	66.5	54.5	51.7		29.3	23.8	30.8	42.0	54.1	44.3	73.7	-29.8	-76.88
12/17/93	10:30	1.021	86.3	80.6	83.3	64.6	66.5	66.5	54.5	51.7		28.4	24.6	30.8	42.0	54.1	46.1	73.7	-29.8	-76.88
12/17/93	10:40	1.028	87.1	81.5	82.4	65.5	66.5	67.4	55.3	51.7		29.3	24.6	30.8	42.0	54.1	46.0	73.7	-29.8	-76.88
12/17/93	10:50	1.035	87.1	82.3	83.3	65.4	66.5	67.4	56.2	51.7		29.3	23.7	31.7	42.0	54.1	46.0	72.8	-29.8	-76.88
12/17/93	11:00	1.042	88.0	82.3	83.3	67.2	66.5	68.5	55.3	52.5		30.2	23.7	32.6	42.0	55.0	46.0	73.7	-29.8	-76.88
12/17/93	11:10	1.049	88.0	82.3	84.2	66.3	66.5	69.1	56.2	51.7		31.0	25.5	31.7	42.0	55.8	46.0	74.5	-29.8	-76.88
12/17/93	11:20	1.056	88.0	82.3	84.2	67.2	67.3	68.2	57.9	52.5		31.0	25.5	32.6	42.0	54.1	46.9	75.4	-29.8	-76.88
12/17/93	11:30	1.063	88.8	83.2	84.2	67.2	67.3	69.1	56.2	53.4		30.2	25.5	33.4	42.0	54.1	46.9	75.4	-29.8	-78.58
12/17/93	11:40	1.069	88.8	83.2	84.2	67.2	68.2	69.1	56.2	53.4		30.2	26.3	33.4	42.8	55.8	46.9	74.5	-29.8	-78.58
12/17/93	11:50	1.076	88.8	83.2	85.0	66.3	67.3	69.1	57.0	53.4		29.3	26.3	33.4	42.8	55.8	46.9	74.5	-29.8	-78.58
12/17/93	12:00	1.083	88.8	83.2	85.0	67.2	68.2	69.1	57.0	53.4		30.2	26.3	33.4	42.8	54.9	47.7	74.5	-29.8	-79.48
12/17/93	12:10	1.090	88.8	84.0	85.9	68.0	68.2	69.1	57.0	54.3		31.0	26.3	33.4	42.8	55.8	46.6	74.5	-29.8	-76.88
12/17/93	12:20	1.097	89.7	84.0	85.0	68.0	69.0	69.1	57.9	53.4		31.9	26.3	33.4	42.8	55.8	47.7	75.4	-29.8	-78.68
12/17/93	12:30	1.104	89.7	84.0	85.9	68.9	69.0	69.9	57.9	54.3		31.9	27.2	33.4	42.8	55.8	48.5	75.4	-29.9	-79.48
12/17/93	12:40	1.111	89.7	84.0	86.7	68.9	69.9	71.7	59.6	55.2		32.8	27.2	34.3	42.8	55.8	48.5	76.2	-29.9	-80.38
12/17/93	12:50	1.118	89.7	84.0	85.9	68.9	69.9	72.6	59.6	56.0		33.6	27.1	34.3	42.8	55.7	48.5	76.2	-29.9	-79.48
12/17/93	13:00	1.125	89.7	84.9	85.9	68.9	69.9	72.6	59.6	56.0		33.6	27.1	34.3	43.6	56.6	47.7	76.2	-29.9	-80.38
12/17/93	13:10	1.132	89.7	84.9	85.9	68.9	69.9	72.5	59.6	56.0		33.6	28.0	35.2	42.8	55.7	48.5	77.0	-29.9	-80.38
12/17/93	13:20	1.139	89.7	84.9	87.6	69.7	70.7	72.5	59.6	56.9		35.4	27.1	35.1	43.6	55.7	48.5	76.2	-29.9	-80.38
12/17/93	13:30	1.146	90.5	84.9	87.6	68.8	69.9	71.7	59.5	56.9		33.6	28.0	35.1	44.5	56.6	49.3	76.1	-29.9	-80.38
12/17/93	13:40	1.153	90.5	84.8	86.7	69.7	69.8	72.5	60.4	57.8		35.3	28.8	36.0	44.4	56.6	48.5	77.9	-29.0	-80.38
12/17/93	13:50	1.160	89.6	85.7	86.7	70.6	69.8	72.5	60.4	56.9		35.3	28.8	36.0	44.4	56.5	49.3	77.9	-28.2	-80.38
12/17/93	14:00	1.167	90.5	85.7	87.6	70.5	69.8	72.5	61.2	56.9		35.3	27.9	36.9	45.3	56.5	48.4	77.8	-28.2	-81.28
12/17/93	14:10	1.174	90.5	85.7	87.6	70.5	70.7	72.5	61.2	56.9		35.3	27.9	36.9	45.3	57.4	48.4	77.8	-29.1	-81.28
12/17/93	14:20	1.181	91.3	85.7	87.5	70.5	70.7	72.5	61.2	56.9		35.3	28.8	37.7	45.3	57.4	50.1	78.7	-29.1	-81.28
12/17/93	14:30	1.188	91.3	85.7	87.5	71.4	70.7	73.4	62.1	59.5		37.1	28.8	36.9	45.2	58.2	50.1	78.7	-29.1	-80.48
12/17/93	14:40	1.194	91.3	85.7	87.5	70.5	69.8	74.2	62.1	59.5		38.8	28.8	34.2	46.1	58.2	51.0	78.6	-28.2	-80.48
12/17/93	14:50	1.201	90.4	85.7	86.6	70.5	69.8	74.2	61.2	56.8	60.4	38.8	27.9	35.1	45.2	57.3	50.1	79.5	-29.1	-80.48
12/17/93	15:00	1.208	91.3	85.6	86.6	70.5	71.5	74.2	61.2	56.8	60.4	38.8	29.6	35.1	46.9	57.3	49.2	78.6	-28.3	-80.48
12/17/93	15:10	1.215	91.3	85.6	87.5	70.5	70.6	74.2	61.2	56.8	60.4	38.8	28.7	36.8	47.8	57.3	50.1	80.3	-28.3	-80.48
12/17/93	15:20	1.222	91.3	85.6	87.5	70.5	70.6	74.2	62.0	56.8	60.4	38.8	29.6	37.7	47.8	57.3	50.1	79.5	-28.3	-80.48
12/17/93	15:30	1.229	91.3	85.6	87.5	70.5	70.6	74.2	62.0	56.8	60.4	38.8	28.7	36.8	47.8	57.3	50.9	80.3	-28.3	-80.48
12/17/93	15:40	1.236	91.3	84.8	86.6	70.5	71.5	74.2	62.0	56.8	60.4	38.8	27.9	36.8	47.8	57.3	49.2	80.3	-28.3	-80.48

Table 5. Tensiometer Data

		Tensiometer Data																		
	Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
12/17/93	15:50	1.243	91.3	85.6	87.5	70.5	72.3	74.2	61.1	58.6	60.4	38.8	29.6	37.7	47.7	57.3	50.0	81.2	-28.3	-80.48
12/17/93	16:00	1.250	91.3	85.6	87.5	70.5	71.5	74.2	62.0	57.7	60.3	39.6	28.7	37.7	47.7	57.3	50.9	81.2	-28.3	-80.48
12/17/93	16:10	1.257	91.3	85.6	87.5	70.5	71.5	74.2	62.0	57.7	60.3	39.6	28.7	37.7	47.7	57.3	50.9	81.2	-28.3	-81.38
12/17/93	16:20	1.264	91.3	85.6	87.5	70.5	71.5	74.2	62.0	58.6	61.2	40.5	29.6	37.7	47.7	57.3	50.0	81.2	-28.3	-82.18
12/17/93	16:30	1.271	91.3	85.6	87.5	69.6	71.5	73.3	62.0	59.5	62.1	41.4	29.6	37.7	47.7	54.7	50.0	81.2	-28.3	-81.38
12/17/93	16:40	1.278	91.3	85.6	86.6	70.5	71.5	73.3	62.0	58.6	61.2	41.4	29.6	37.7	48.6	57.3	50.0	81.2	-28.3	-81.38
12/17/93	16:50	1.285	90.4	85.6	87.5	70.5	72.3	73.3	62.0	57.7	62.1	42.3	30.5	37.7	48.6	57.3	50.9	82.1	-27.4	-82.18
12/17/93	17:00	1.292	91.3	85.6	87.5	70.5	72.3	73.4	62.0	59.5	62.1	42.3	29.6	37.7	48.6	57.3	50.9	82.1	-28.3	-83.08
12/17/93	17:10	1.299	90.4	85.7	87.5	70.5	71.5	73.4	62.1	57.7	60.4	42.3	30.5	37.7	48.7	58.2	51.0	82.1	-28.3	-83.08
12/17/93	17:20	1.306	91.3	85.7	86.7	69.6	71.5	72.5	62.1	58.6	63.0	42.3	30.5	37.7	47.8	57.3	51.0	82.1	-28.2	-82.98
12/17/93	17:30	1.313	91.3	85.7	86.7	69.7	71.5	72.5	62.9	58.6	62.1	41.4	29.7	37.7	48.7	58.2	51.0	82.2	-29.1	-82.18
12/17/93	17:40	1.319	90.5	85.7	87.6	70.5	72.4	72.5	62.1	57.7	62.1	42.3	31.4	37.7	48.7	58.3	51.0	82.2	-28.2	-82.98
12/17/93	17:50	1.326	90.5	84.8	85.8	70.6	71.6	72.5	62.1	57.8	62.1	41.4	29.7	37.7	48.7	58.3	50.2	81.3	-28.2	-82.18
12/17/93	18:00	1.333	89.6	85.7	85.8	69.7	71.6	72.5	63.0	57.8	61.3	41.4	29.7	38.6	49.6	58.3	50.2	83.1	-29.0	-83.88
12/17/93	18:10	1.340	91.4	84.9	85.8	69.7	71.6	72.5	63.0	57.8	63.0	40.6	29.7	36.9	49.6	58.3	50.2	83.1	-28.2	-83.88
12/17/93	18:20	1.347	91.4	84.9	85.9	69.7	72.5	72.5	62.2	57.8	63.0	40.6	29.7	36.9	49.7	59.2	50.2	83.2	-29.9	-84.88
12/17/93	18:30	1.354	91.4	84.9	86.7	70.6	71.6	72.5	63.0	58.7	63.0	40.6	30.6	37.8	49.7	58.4	51.1	83.2	-28.1	-84.88
12/17/93	19:00	1.375	91.4	85.8	86.8	70.6	72.5	73.4	63.1	58.7	62.2	40.6	30.6	37.8	49.7	57.5	51.2	83.3	-29.0	-84.88
12/17/93	19:30	1.396	90.6	85.8	86.8	70.7	73.4	74.3	64.0	59.6	63.9	41.5	30.7	37.8	49.8	58.5	51.2	83.3	-28.1	-85.48
12/17/93	20:00	1.417	91.5	85.8	86.8	70.7	73.4	74.3	64.9	59.6	64.0	42.4	30.7	38.7	49.8	58.5	51.2	82.5	-28.9	-86.38
12/17/93	20:30	1.438	91.5	85.8	86.8	70.7	73.4	74.3	65.8	60.5	64.0	42.4	30.7	39.6	50.7	58.5	51.3	84.2	-28.9	-87.18
12/17/93	21:00	1.458	91.5	85.8	87.7	70.7	74.3	75.2	64.9	60.5	64.0	42.4	31.6	39.6	50.7	58.5	50.4	84.3	-28.9	-87.18
12/17/93	21:30	1.479	91.5	85.8	87.7	72.5	73.4	74.4	65.8	59.6	64.9	41.6	32.5	39.6	51.6	59.4	51.3	85.2	-29.7	-88.08
12/17/93	22:00	1.500	92.4	86.7	87.7	73.3	73.5	74.4	65.8	61.4	65.7	42.4	32.5	41.4	51.6	59.4	51.3	85.2	-29.7	-87.98
12/17/93	22:30	1.521	92.4	87.6	87.7	72.5	74.3	76.1	65.8	60.5	66.6	42.4	32.5	40.5	51.6	59.4	52.2	85.2	-28.8	-88.88
12/17/93	23:00	1.542	92.4	87.6	88.6	72.5	75.2	76.1	65.8	60.5	66.6	43.3	33.4	40.5	52.5	60.3	52.2	85.2	-29.7	-88.88
12/17/93	23:30	1.563	93.3	87.6	87.7	73.4	75.2	76.1	66.7	60.5	66.8	43.3	34.3	41.4	51.6	59.5	52.2	86.1	-29.7	-88.88
12/18/93	0:00	1.583	93.3	86.7	88.6	71.6	75.2	76.1	67.5	61.4	67.5	43.3	34.3	40.5	52.5	59.5	53.1	86.1	-29.7	-91.48
12/18/93	0:30	1.604	93.3	88.5	88.6	74.2	76.1	77.0	67.6	61.4	67.5	42.5	34.3	41.4	52.5	59.5	52.2	86.1	-29.7	-91.48
12/18/93	1:00	1.625	94.2	88.5	88.6	73.4	76.9	77.0	69.3	63.2	67.5	43.3	34.3	40.5	53.4	60.4	54.8	86.1	-29.7	-92.28
12/18/93	1:30	1.646	93.3	88.5	88.6	74.2	76.9	77.0	68.4	64.1	68.4	45.1	34.3	42.3	53.4	62.1	53.1	86.1	-29.7	-92.28
12/18/93	2:00	1.667	94.2	89.4	89.5	75.1	77.8	77.9	69.3	63.2	69.2	45.1	36.0	43.2	53.4	62.1	53.1	87.9	-29.7	-93.18
12/18/93	2:30	1.688	94.2	89.4	89.5	74.2	77.8	77.9	70.2	63.2	68.4	43.3	35.1	44.0	54.3	63.0	54.0	87.9	-29.7	-93.18
12/18/93	3:00	1.708	95.9	89.4	89.5	75.1	77.8	78.8	69.3	63.2	69.2	46.0	36.0	44.0	54.3	63.0	54.8	87.9	-28.8	-93.18
12/18/93	3:30	1.729	95.0	89.4	89.5	75.1	77.8	79.6	70.2	63.2	70.1	46.0	36.0	44.0	54.3	63.0	54.8	87.9	-29.7	-93.98
12/18/93	4:00	1.750	95.9	88.5	90.4	77.7	77.8	79.6	69.3	65.0	70.1	46.0	36.9	44.0	55.1	63.0	54.8	90.5	-29.7	-95.78
12/18/93	4:30	1.771	95.9	89.4	91.2	76.9	78.7	79.6	70.2	64.1	71.0	46.8	37.7	44.0	54.3	63.0	54.8	88.8		
12/18/93	5:00	1.792	97.6	89.4	91.2	77.7	78.7	79.6	70.2	64.1	71.0	47.7	37.7	44.0	55.1	63.8	55.7	88.8		

Table 5. Tensiometer Data

			Tensiometer Data																	
		Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
12/18/93	5:30	1.813	95.9	92.0	90.4	76.9	78.7	79.6	70.2	65.0	71.0	46.0	37.7	44.9	55.1	63.0	56.5	90.5		
12/18/93	6:00	1.833	96.8	91.1	91.2	76.8	80.4	79.8	71.9	65.9	72.7	46.8	38.6	46.7	56.0	64.7	55.7	89.6		
12/18/93	6:30	1.854	96.8	91.1	92.1	76.8	80.4	79.6	72.8	66.7	71.8	47.7	38.6	44.9	56.0	63.8	56.5	89.6		
12/18/93	7:00	1.875	96.8	91.1	92.1	77.7	80.4	80.5	72.8	66.7	71.8	46.8	39.5	45.8	55.1	64.7	56.5	89.6		
12/18/93	7:30	1.896	96.8	92.0	93.0	77.7	80.4	81.4	72.8	66.7	72.7	46.8	40.3	47.6	56.8	65.6	57.4	89.6		
12/18/93	8:00	1.917	97.6	92.0	93.9	77.7	80.4	82.2	71.9	66.7	73.6	46.8	39.5	46.7	56.0	64.7	56.5	89.6		
12/18/93	8:30	1.938	98.5	92.8	93.6	80.3	81.2	83.1	75.3	67.6	73.6	46.0	41.2	48.4	56.0	65.6	58.2	89.6		
12/18/93	9:00	1.958	98.5	93.7	95.6	81.2	83.8	84.0	75.3	70.3	74.4	45.9	42.0	48.4	56.8	67.3	58.2	92.2		
12/18/93	9:30	1.979	98.5	93.6	94.7	81.1	83.8	84.8	76.2	70.2	74.4	46.8	42.0	48.4	57.6	67.3	59.1	90.4		
12/18/93	10:00	2.000	100.2	94.5	97.3	82.0	83.6	85.7	76.1	70.2	74.4	45.9	43.7	50.1	57.6	68.1	59.9	91.2		
12/18/93	10:30	2.021	101.0	95.3	97.3	82.8	85.5	86.6	76.1	70.2	75.2	45.0	44.6	51.0	56.7	68.1	59.9	90.3		
12/18/93	11:00	2.042	101.9	96.2	97.2	83.7	86.3	86.5	77.8	73.7	76.1	49.4	44.6	51.0	58.4	68.9	60.7	93.8		
12/18/93	11:30	2.063	100.1	95.3	97.2	83.7	85.4	86.5	76.9	72.0	75.2	46.8	44.5	51.0	56.7	69.8	60.7	91.2		
12/18/93	12:00	2.083	102.7	97.0	99.0	83.7	87.1	87.4	77.8	72.8	77.0	46.8	46.3	52.7	60.1	69.7	62.4	91.1		
12/18/93	12:30	2.104	102.7	96.1	98.9	84.5	87.1	87.4	79.5	74.6	77.8	49.4	46.2	51.8	60.1	69.7	62.3	92.8		
12/18/93	13:00	2.125	102.7	97.9	100.7	85.3	88.0	89.1	79.5	74.6	77.8	47.6	47.9	53.6	59.2	70.5	63.2	91.0		
12/18/93	13:30	2.146	103.5	97.8	100.6	85.3	87.1	88.2	79.4	74.5	78.6	52.8	47.9	53.5	60.0	71.4	63.1	92.7		
12/18/93	14:00	2.167	103.5	97.8	100.6	85.3	87.9	89.1	79.4	74.5	77.8	50.2	47.9	54.4	59.9	71.3	63.1	92.7		
12/18/93	14:30	2.188	102.6	97.8	100.6	85.3	87.0	89.1	79.4	74.5	77.7	51.9	47.8	54.4	59.0	71.3	63.9	92.6		
12/18/93	15:00	2.208	102.6	98.6	101.4	87.0	87.0	89.1	80.2	74.5	79.5	51.9	47.8	55.2	62.4	71.2	63.9	96.1		
12/18/93	15:30	2.229	101.7	98.6	100.6	85.2	87.9	88.2	79.3	74.5	78.6	49.3	47.8	55.2	60.7	69.5	62.1	95.2		
12/18/93	16:00	2.250	103.4	97.8	99.7	86.1	87.0	89.9	80.2	74.5	79.5	50.1	47.8	54.4	60.7	70.4	63.0	96.1		
12/18/93	16:30	2.271	102.6	96.9	99.7	85.2	87.9	88.2	80.2	74.5	80.3	52.6	47.8	55.2	62.5	71.2	63.0	96.1		
12/18/93	17:00	2.292	102.6	96.9	98.0	84.4	87.0	88.2	79.4	74.5	81.2	51.9	47.9	55.3	62.5	71.3	64.8	97.0		
12/18/93	17:30	2.313	102.7	97.8	98.9	85.3	87.9	88.2	80.3	74.5	79.5	51.1	47.0	55.3	63.4	69.6	63.1	98.0		
12/18/93	18:00	2.333	102.7	97.0	98.9	85.4	88.0	88.2	80.3	74.6	80.4	51.1	46.2	54.4	63.5	69.7	63.2	97.2		
12/18/93	18:30	2.354	103.6	96.2	97.2	84.5	87.1	88.3	80.4	72.8	80.4	50.2	47.1	54.5	62.7	69.7	63.2	96.3		
12/18/93	19:00	2.375	102.7	96.2	97.2	84.5	87.2	88.3	79.5	73.7	79.6	49.4	48.0	55.3	61.8	71.5	63.3	94.6		
12/18/93	19:30	2.396	102.8	96.2	98.1	84.6	87.2	88.3	79.6	74.6	80.4	49.4	48.0	55.4	62.7	71.5	63.3	96.4		
12/18/93	20:00	2.417	102.8	96.2	98.1	84.6	87.2	88.3	79.6	73.7	81.3	51.1	47.2	55.4	62.7	70.7	65.0	97.3		
12/18/93	20:30	2.438	102.8	96.2	98.1	84.6	87.2	88.3	79.6	74.6	81.3	50.3	48.1	55.4	62.8	71.6	65.1	97.4		
12/18/93	21:00	2.458	103.7	97.1	99.0	85.5	88.1	88.3	80.5	74.6	81.3	49.4	48.1	55.4	62.8	71.6	64.2	97.4		
12/18/93	21:30	2.479	103.7	96.2	98.2	86.3	87.2	88.3	80.5	74.6	81.3	51.2	49.8	55.4	62.8	71.6	65.1	99.2		
12/18/93	22:00	2.500	103.7	97.1	98.2	85.5	87.2	89.2	82.2	74.7	81.3	51.2	47.2	55.4	62.8	70.7	65.1	98.3		
12/18/93	22:30	2.521	103.7	96.3	98.2	86.4	87.3	89.2	81.4	74.7	81.4	50.3	48.1	55.4	62.8	71.6	65.1	100.1		
12/18/93	23:00	2.542	103.7	97.1	98.2	84.6	89.0	89.2	81.4	74.7	81.4	49.4	48.1	56.3	63.7	71.6	68.0	98.3		
12/18/93	23:30	2.563	104.6	97.1	98.2	87.2	88.1	89.2	82.3	74.7	81.4	50.3	48.1	56.3	63.7	71.6	65.1	98.3		
12/18/93	0:00	2.583	103.7	97.1	98.2	87.3	89.0	89.2	82.3	74.7	81.4	52.1	48.1	56.1	63.7	72.5	65.1	100.1		

Table 5. Tensiometer Data

		Tensiometer Data																		
		Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
12/19/93	0:30	2.604	102.8	98.0	99.1	87.3	89.9	89.2	82.3	73.8	82.2	52.1	48.1	58.1	63.7	71.7	65.2	100.1		
12/19/93	1:00	2.625	103.7	98.0	100.0	86.4	89.0	89.2	82.3	75.6	82.2	51.2	48.2	58.1	63.7	73.4	65.2	99.2		
12/19/93	1:30	2.646	104.6	98.0	97.3	87.3	87.3	91.0	82.3	74.7	82.3	51.2	49.0	56.3	62.9	71.7	65.2	100.1		
12/19/93	2:00	2.667	103.7	97.2	98.2	86.4	89.9	90.1	83.2	74.7	83.1	52.1	49.0	58.1	65.5	73.4	65.2	100.1		
12/19/93	2:30	2.688	105.5	98.9	99.1	87.3	89.0	89.2	82.3	77.3	83.1	49.5	49.0	58.1	63.8	72.6	68.1	100.2		
12/19/93	3:00	2.708	103.7	98.9	100.0	87.3	89.9	90.1	83.2	76.5	83.1	49.5	49.9	58.1	63.8	73.4	65.2	100.2		
12/19/93	3:30	2.729	104.6	98.9	99.1	88.2	89.0	90.1	83.2	78.5	82.3	50.4	52.5	58.1	64.6	73.5	66.1	102.8		
12/19/93	4:00	2.750	105.5	98.0	99.1	88.2	90.8	90.1	84.0	77.4	84.0	50.4	49.9	58.1	64.7	73.5	66.1	101.1		
12/19/93	4:30	2.771	104.6	98.1	99.1	87.3	89.9	91.0	83.2	76.5	83.1	50.4	49.9	58.1	64.7	73.5	66.1	101.1		
12/19/93	5:00	2.792	106.4	98.9	99.1	88.2	90.8	90.1	83.2	76.5	83.1	51.2	49.9	58.1	66.4	73.5	66.1	101.1		
12/19/93	5:00	2.813	105.5	98.9	99.1	88.2	90.8	90.1	84.1	76.5	84.9	52.1	50.8	58.1	65.5	73.5	66.1	102.8		
12/19/93	6:00	2.833	106.4	98.9	100.0	89.0	91.6	90.1	84.9	77.4	84.9	51.2	51.7	59.0	66.4	74.4	66.1	102.0		
12/19/93	6:30	2.854	106.4	98.9	99.1	88.2	90.8	91.0	84.1	77.4	84.9	50.4	50.8	59.9	66.4	73.5	67.0	101.1		
12/19/93	7:00	2.875	106.4	100.7	100.0	89.9	91.6	91.9	84.1	77.4	84.9	51.2	50.8	59.9	66.4	73.5	66.9	101.9		
12/19/93	7:30	2.896	107.2	100.7	100.0	89.9	91.6	91.9	84.9	77.4	84.9	51.2	52.5	60.7	67.3	73.5	66.9	101.1		
12/19/93	8:00	2.917	106.3	99.8	101.7	89.9	91.6	91.0	84.9	78.2	84.9	50.4	52.5	60.7	65.5	73.5	66.9	101.1		
12/19/93	8:30	2.938	107.2	101.5	101.7	90.8	92.5	93.6	85.8	77.4	84.9	50.4	53.4	60.7	66.4	75.2	66.9	100.2		
12/19/93	9:00	2.958	107.2	101.5	102.6	89.9	92.5	92.7	86.6	78.2	84.9	49.5	53.4	60.7	65.5	75.2	66.6	100.2		
12/19/93	9:30	2.979	108.9	102.4	102.6	91.6	93.3	94.5	86.6	80.9	84.9	49.5	54.2	62.5	68.1	76.0	66.6	102.7		
12/19/93	10:00	3.000	107.2	103.2	101.7	91.6	94.2	94.5	86.6	79.1	84.8	46.0	55.1	63.3	65.4	76.0	66.6	100.1		
12/19/93	10:30	3.021	108.9	103.2	105.2	92.4	93.3	95.3	87.4	81.7	84.8	45.9	55.0	63.3	66.3	77.7	69.4	97.4		
12/19/93	11:00	3.042	110.6	104.0	106.9	93.3	95.8	97.0	88.2	82.6	85.7	45.9	56.7	65.0	67.1	76.8	70.2	97.3		
12/19/93	11:30	3.063	110.5	104.8	106.8	94.1	96.6	97.0	89.1	82.6	86.5	46.8	57.6	65.0	67.0	79.3	71.0	97.3		
12/19/93	12:00	3.083	110.5	105.7	108.5	94.9	97.5	97.0	90.8	84.3	88.2	46.7	57.5	65.0	67.0	79.3	71.9	98.1		
12/19/93	12:30	3.104	112.2	105.7	106.8	94.9	97.5	98.7	89.9	83.4	86.5	46.7	57.5	65.8	66.9	80.1	71.0	97.2		
12/19/93	13:00	3.125	112.2	106.5	108.5	95.8	97.4	98.7	90.7	86.0	89.9	53.7	56.6	65.0	69.5	80.1	72.6	105.9		
12/19/93	13:30	3.146	112.2	107.4	108.5	94.9	97.4	98.7	89.8	84.3	87.3	49.3	58.3	65.8	66.9	79.2	71.8	100.6		
12/19/93	14:00	3.167	112.2	106.5	108.5	95.7	99.1	98.7	90.6	86.7	89.9	53.7	58.3	66.7	69.4	80.0	73.4	109.3		
12/19/93	14:30	3.188	112.2	106.5	108.4	96.6	99.1	99.5	92.4	86.6	89.9	58.0	59.1	66.7	72.0	80.9	73.4	111.0		
12/19/93	15:00	3.208	112.2	106.5	107.6	95.7	97.4	98.7	91.5	86.0	88.2	56.3	58.3	65.8	68.6	80.9	72.6	109.3		
12/19/93	15:30	3.229	112.2	106.5	108.4	95.7	97.4	99.5	91.5	87.6	88.1	53.7	59.1	65.8	69.4	81.7	71.7	105.7		
12/19/93	16:00	3.250	113.0	106.4	108.4	95.7	99.1	99.5	91.5	88.6	90.7	56.3	59.1	65.8	71.1	81.7	73.4	106.6		
12/19/93	16:30	3.271	111.3	106.4	107.6	95.7	99.1	98.7	91.5	88.6	90.7	58.9	59.1	66.6	71.1	80.8	72.5	109.2		
12/19/93	17:00	3.292	112.2	106.5	108.4	96.6	99.1	98.7	91.5	86.6	90.7	59.8	60.0	66.7	72.0	81.7	73.4	109.2		
12/19/93	17:30	3.313	112.2	104.7	107.6	94.8	97.4	98.7	91.5	86.9	90.8	58.9	58.3	66.7	72.0	80.9	73.4	109.3		
12/19/93	18:00	3.333	110.5	104.8	106.7	94.9	99.1	98.7	90.7	86.9	89.9	58.0	60.0	66.7	71.2	80.9	73.5	108.5		
12/19/93	18:30	3.354	110.5	105.7	106.8	94.0	98.3	97.0	90.7	86.0	89.9	57.2	59.2	66.7	71.2	81.0	72.7	107.6		
12/19/93	19:00	3.375	110.5	104.8	106.8	94.9	98.3	97.0	91.6	86.0	89.9	56.3	58.4	67.6	71.3	81.0	72.7	107.7		

Table 5. Tensiometer Data

			Tensiometer Data																		
		Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f	
12/19/93	19:30	3.396	111.4	105.7	106.8	95.8	98.3	98.7	91.6	88.1	89.9	57.2	59.2	66.7	71.3	80.2	71.8	108.6			
12/19/93	20:00	3.417	111.4	104.8	106.8	94.9	98.3	97.9	91.6	86.9	90.0	57.2	59.3	66.7	72.2	81.9	73.6	108.6			
12/19/93	20:30	3.438	110.5	104.8	106.8	95.0	97.5	97.9	91.7	86.1	90.0	56.4	59.3	66.7	72.2	80.2	68.4	107.7			
12/19/93	21:00	3.458	111.4	104.9	106.0	95.0	97.5	98.7	91.7	86.1	90.8	56.4	57.6	66.7	73.1	81.1	71.9	107.8			
12/19/93	21:30	3.479	111.4	104.9	106.8	95.0	98.4	98.7	92.5	87.0	91.7	56.4	59.3	67.6	72.2	82.0	73.6	108.7			
12/19/93	22:00	3.600	112.3	105.7	106.0	95.9	97.5	98.8	91.7	87.0	91.7	56.4	58.4	67.6	72.2	80.2	73.7	108.7			
12/19/93	22:30	3.621	112.3	105.7	106.9	95.9	98.4	97.9	92.6	86.1	91.7	56.4	59.3	68.5	73.1	82.0	73.7	108.7			
12/19/93	23:00	3.642	111.4	104.9	106.9	95.9	99.3	98.8	92.6	86.1	91.7	56.4	59.3	67.6	73.1	82.0	74.5	108.7			
12/19/93	23:30	3.663	111.5	105.8	106.9	95.9	97.6	97.9	91.7	87.0	91.7	56.4	59.3	68.5	74.0	81.1	75.4	109.6			
12/20/93	0:00	3.683	111.5	105.8	106.9	95.9	98.4	98.8	92.6	85.2	91.7	56.4	59.4	69.4	74.9	81.2	75.4	109.6			
12/20/93	0:30	3.604	112.4	104.9	106.0	95.0	99.3	98.8	94.3	87.9	91.8	56.4	59.4	69.4	75.8	82.1	75.4	108.8			
12/20/93	1:00	3.625	112.4	105.8	106.0	95.9	98.4	97.9	93.5	87.9	91.8	56.4	59.4	69.4	75.8	82.1	75.5	110.5			
12/20/93	1:30	3.646	113.2	104.9	106.9	96.8	99.3	98.8	93.5	87.9	90.9	56.4	59.4	69.4	76.7	82.1	75.5	109.7			
12/20/93	2:00	3.667	112.4	104.9	105.2	96.8	99.3	98.8	91.8	87.0	91.8	56.4	60.3	69.5	74.1	81.2	76.4	110.6			
12/20/93	2:30	3.688	112.4	105.0	106.1	95.9	97.6	98.8	93.5	87.0	91.8	56.4	60.3	69.5	73.2	82.1	75.5	110.6			
12/20/93	3:00	3.708	112.4	106.7	106.1	97.7	98.5	98.8	93.5	87.9	91.8	56.4	58.6	69.5	72.4	82.1	75.5	109.7			
12/20/93	3:30	3.729	112.4	105.8	106.9	96.8	99.4	98.8	93.5	87.9	91.8	56.4	60.3	69.5	70.7	82.1	75.5	111.5			
12/20/93	4:00	3.760	114.1	105.8	106.9	97.7	99.4	99.7	93.5	87.9	91.8	56.4	60.3	69.5	70.7	82.1	76.4	111.5			
12/20/93	4:30	3.771	113.3	106.7	106.9	97.7	101.1	98.8	93.5	87.9	93.5	56.4	60.3	69.5	70.7	82.1	76.4	111.5			
12/20/93	5:00	3.792	114.1	105.8	106.9	96.8	99.4	99.7	93.5	88.8	92.7	54.7	60.3	69.5	70.7	82.1	75.5	110.6			
12/20/93	5:30	3.813	113.3	106.7	106.1	96.0	99.4	98.8	93.5	87.9	93.5	58.5	60.3	71.2	71.5	83.9	76.4	111.5			
12/20/93	6:00	3.833	114.2	106.7	107.8	97.7	98.5	99.7	93.6	87.9	92.7	56.5	62.1	71.2	71.5	83.0	77.3	110.6			
12/20/93	6:30	3.854	114.2	106.7	107.0	96.8	99.4	99.7	93.6	87.9	93.5	56.5	62.1	71.2	70.7	83.0	77.3	112.4			
12/20/93	7:00	3.875	115.0	106.7	106.1	96.8	101.1	100.6	93.6	87.9	93.5	56.5	61.2	71.2	70.7	83.9	77.3	111.5			
12/20/93	7:30	3.896	114.2	106.7	107.0	96.8	100.2	98.8	93.6	88.8	93.5	55.6	61.2	71.2	70.7	83.0	77.3	112.4			
12/20/93	8:00	3.917	114.2	106.7	107.0	96.8	101.1	102.3	93.6	87.1	92.7	56.5	62.1	71.2	70.7	83.0	76.4	112.4			
12/20/93	8:30	3.938	115.0	106.7	107.8	97.7	100.2	101.5	93.5	87.9	91.8	53.8	62.0	70.4	69.8	83.0	77.3	110.6			
12/20/93	9:00	3.958	115.0	106.7	108.7	98.6	101.1	101.4	93.5	88.8	91.8	53.0	62.0	72.1	72.4	83.9	77.2	110.6			
12/20/93	9:30	3.979	114.1	106.7	108.7	98.5	101.1	101.4	95.3	88.8	91.8	52.9	62.0	73.0	71.5	84.7	79.0	111.5			
12/20/93	10:00	4.000	115.8	109.3	108.7	99.4	101.1	102.3	95.2	89.7	91.8	49.4	63.7	73.0	74.9	86.5	78.9	109.7			
12/20/93	10:30	4.021	115.8	109.3	109.5	99.4	102.8	103.2	97.0	90.6	93.5	49.4	65.5	73.0	74.0	85.6	78.9	108.8			
12/20/93	11:00	4.042	115.8	109.2	112.1	102.0	103.6	103.2	96.9	91.4	94.4	48.5	65.4	73.8	75.8	85.5	79.8	109.6			
12/20/93	11:30	4.063	116.7	110.1	113.0	102.0	104.5	104.0	96.9	90.5	95.2	47.7	65.4	72.9	75.7	86.4	80.6	107.9			
12/20/93	12:00	4.083	117.5	111.0	113.0	102.0	104.5	104.0	96.9	90.5	95.2	48.5	67.2	74.7	75.7	87.3	80.6	108.7			
12/20/93	12:30	4.104	117.5	110.9	113.8	102.8	104.4	106.6	97.8	93.2	96.1	48.5	67.1	74.7	77.4	87.2	80.6	108.7			
12/20/93	13:00	4.125	117.5	110.9	114.7	101.9	105.3	107.5	97.7	93.2	96.1	50.3	68.0	75.5	78.3	87.2	81.4	110.4			
12/20/93	13:30	4.146	118.3	111.8	114.7	102.8	107.0	107.5	98.6	94.0	96.0	52.0	67.9	75.5	79.1	87.1	81.3	110.3			
12/20/93	14:00	4.167	118.3	111.7	114.6	103.6	106.1	106.6	98.5	94.0	96.0	54.6	67.0	75.5	80.7	88.0	80.4	111.1			

Table 5. Tensiometer Data

		Tensiometer Data																		
		Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
12/20/93	14:30	4.188	119.1	111.7	113.7	103.5	105.2	107.4	99.3	94.0	97.7	56.3	67.8	74.6	81.6	87.9	82.1	113.7		
12/20/93	15:00	4.208	118.2	111.7	114.6	103.5	106.0	105.7	99.3	94.8	97.7	57.2	68.9	76.3	81.5	87.9	82.1	114.5		
12/20/93	16:00	4.260	118.2	112.5	114.5	102.8	105.1	105.8	101.0	94.8	98.5	59.7	68.9	75.4	84.9	87.8	82.0	117.0		
12/20/93	18:00	4.333	117.5	110.0	112.1	101.9	104.4	104.0	98.6	93.1	98.6	60.7	65.4	74.6	85.2	87.2	81.4	118.2		
12/20/93	20:00	4.417	117.6	110.2	110.4	102.1	103.7	103.2	98.8	91.5	96.1	58.2	65.5	74.7	83.6	85.6	80.7	115.0		
12/20/93	22:00	4.500	117.7	110.2	109.6	101.2	104.6	104.1	97.9	91.5	97.0	57.4	65.6	75.7	84.6	85.7	80.8	113.3		
12/21/93	0:00	4.583	117.7	110.2	109.6	102.1	104.6	104.1	97.1	90.7	97.1	57.4	65.6	75.7	74.2	87.5	80.8	116.0		
12/21/93	2:00	4.667	117.7	110.3	109.7	102.2	104.7	104.1	98.9	90.7	98.0	57.4	65.7	75.7	73.4	87.5	80.9	118.7		
12/21/93	4:00	4.750	117.7	111.1	108.8	103.0	105.5	104.1	98.0	90.7	98.0	54.8	65.7	75.7	70.8	86.7	81.8	117.8		
12/21/93	6:00	4.833	118.6	110.3	111.4	103.9	102.9	104.1	98.9	90.7	98.0	53.9	65.7	75.7	70.8	86.7	80.9	117.0		
12/21/93	8:00	4.917	120.3	112.0	113.1	104.8	105.5	106.8	100.6	92.4	98.8	52.2	67.4	77.5	76.9	88.4	80.9	116.1		
12/21/93	10:00	5.000	120.3	109.4	114.9	104.7	108.1	105.9	100.6	92.4	98.8	64.4	66.5	74.8	84.6	87.5	79.1	110.7		
12/21/93	12:00	6.083	120.2	113.7	114.8	105.5	108.7	107.6	98.8	91.5	98.8	73.1	69.0	79.2	90.6	88.3	83.3	108.9		
12/21/93	14:00	6.167	122.8	117.1	117.4	108.1	109.6	111.0	103.0	95.9	100.5	78.3	72.4	80.8	93.9	90.8	85.8	114.0		
12/21/93	16:00	6.250	123.6	116.2	116.5	108.1	109.7	110.2	104.7	96.7	103.1	81.8	73.3	81.7	95.6	90.8	86.7	118.4		
12/21/93	18:00	6.333	122.8	113.6	115.7	107.2	109.7	108.4	103.9	95.9	102.2	84.4	72.4	80.9	96.6	90.8	85.9	120.2		
12/21/93	20:00	6.417	122.9	113.7	115.7	109.0	108.9	108.5	104.0	95.9	102.3	84.4	72.5	80.0	96.6	90.9	85.9	117.7		
12/21/93	22:00	6.500	122.9	115.4	115.7	109.0	109.7	109.3	104.0	95.9	102.3	85.3	72.5	80.9	97.5	91.8	86.8	118.6		
12/22/93	0:00	6.583	122.9	114.5	114.8	109.0	109.8	108.5	104.9	95.0	102.3	87.1	74.2	81.8	97.5	91.8	87.7	118.6		
12/22/93	2:00	6.667	123.8	114.6	115.7	109.1	110.6	108.5	104.9	95.9	103.1	88.0	73.4	82.7	98.4	91.8	87.7	120.4		
12/22/93	4:00	6.750	124.7	116.3	115.7	109.1	110.7	109.4	106.6	96.8	103.2	88.0	74.3	82.7	98.4	90.1	88.6			
12/22/93	6:00	6.833	124.7	115.5	114.0	109.1	111.5	109.4	105.8	96.9	104.0	88.0	75.2	82.7	99.3	92.8	89.5			
12/22/93	8:00	6.917	124.7	116.3	116.6	110.0	111.5	111.1	107.5	98.6	104.9	88.9	76.0	82.7	101.0	92.7	89.5			
12/22/93	10:00	6.000	128.4	118.9	121.0	111.7	115.0	112.9	107.5	99.5	105.8	87.1	77.8	86.2	99.3	96.2	90.3			
12/22/93	12:00	6.083	128.1	120.6	121.8	113.3	114.9	114.6	108.3	101.2	106.6	85.3	79.4	87.0	100.9	97.0	92.8			
12/22/93	14:00	6.167	129.7	122.2	123.5	115.0	116.5	116.3	111.6	104.7	107.4	88.8	80.2	88.7	101.7	97.7	93.6			
12/22/93	16:00	6.250	127.9	122.2	123.4	114.9	116.4	116.2	111.5	103.7	107.3	90.4	80.9	88.7	104.1	97.6	94.3			
12/22/93	18:00	6.333	128.0	118.8	119.1	113.3	114.8	113.6	110.8	101.2	107.4	93.1	79.4	87.0	103.4	95.2	92.7			
12/22/93	20:00	6.417	128.1	118.0	119.2	113.4	115.0	112.8	109.2	99.5	106.6	93.2	78.6	86.2	101.9	94.4	91.2			
12/22/93	22:00	6.500	128.2	118.1	118.4	113.5	114.2	113.8	109.3	99.5	106.7	92.4	78.7	86.2	102.0	94.5	91.3			
12/23/93	0:00	6.583	128.2	118.1	116.7	114.4	115.0	113.8	109.3	99.5	106.7	93.3	77.8	86.3	102.0	94.6	90.4			
12/23/93	2:00	6.667	128.5	119.0	118.4	113.5		113.8	110.2	100.4	106.7	83.7	77.9	85.4	102.0	94.6	91.3			
12/23/93	4:00	6.750	128.2	119.0	117.6	113.5		112.9	111.1	100.5	107.6	82.6	72.7	86.3	102.9	95.5	92.2			
12/23/93	6:00	6.833	129.1	119.0	118.5	112.7		114.7	110.2	98.7	107.6	86.1	77.0	87.2	102.9	96.4	91.4			
12/23/93	8:00	6.917	129.1	119.9	120.2	115.3		114.7	111.1	101.3	107.6	78.5	75.3	87.2	102.9	97.2	92.2			
12/23/93	10:00	7.000	129.0	122.4	121.0	118.1		115.5	111.0	95.1	105.8	98.5	77.0	88.9	102.0	96.3	90.4			
12/23/93	12:00	7.083	133.3	125.8	126.2	120.3	118.4	118.9	116.1	108.3	112.7	91.5	84.6	91.4	106.1	101.4	98.9			
12/23/93	14:00	7.167	133.3	124.1	125.3	118.4	119.2	118.1	116.1	109.2	111.8	96.7	83.8	91.4	107.0	99.6	96.3			

Table 5. Tensiometer Data

		Tensiometer Data																		
		Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
12/23/93	18:00	7.250	132.4	124.1	124.4	119.5	118.4	118.1	117.9	106.5	112.7	97.6	83.8	91.5	108.7	101.4	96.3			
12/23/93	18:00	7.333	133.3	124.1	122.7	119.5	118.4	118.1	118.1	105.7	112.7	98.5	83.8	91.5	107.9	100.5	96.4			
12/23/93	20:00	7.417	132.5	121.5	122.7	121.3	116.7	117.2	115.3	105.7	112.7	98.5	83.9	90.6	108.0	99.7	96.4			
12/23/93	22:00	7.500	132.5	122.4	122.8	119.6	117.6	117.2	116.2	105.7	112.7	97.6	83.9	90.6	107.1	100.6	97.3			
12/24/93	0:00	7.583	131.7	123.3	122.8	119.6	115.9	117.3	116.2	106.6	112.8	97.7	84.8	90.7	108.9	101.5	97.3			
12/24/93	2:00	7.667	132.5	124.2	124.5	121.3	114.2	117.3	115.4	104.8	112.8	97.7	85.7	92.4	108.9	101.5	98.2			
12/24/93	4:00	7.750	133.4	125.0	123.7	120.4	115.0	117.3	116.8	105.7	112.8	98.5	86.5	93.3	108.9	101.5	97.3			
12/24/93	6:00	7.833	133.4	123.3	123.7	120.5	120.2	118.1	117.1	105.7	114.5	99.4	86.5	93.3	108.9	101.6	96.5			
12/24/93	8:00	7.917	133.4	122.5	123.7	120.5	111.6	116.4	116.3	104.0	113.6	98.6	85.7	91.6	109.0	100.7	98.2			
12/24/93	10:00	8.000	134.2	126.8	126.2	121.3	111.6	119.9	118.0	105.7	112.7	95.9	86.2	94.1	108.0	103.2	98.2			
12/24/93	12:00	8.083	136.8	130.2	129.7	123.8	118.4	123.3	117.9	113.6	115.3	95.8	93.4	96.7	108.8	105.8	103.2			
12/24/93	14:00	8.167	138.4	130.1	130.5	125.5	120.9	125.0	121.2	114.4	118.1	98.4	94.1	96.7	109.5	105.6	102.3			
12/24/93	16:00	8.250	137.5	129.1	130.4	124.5	128.6	123.2	121.1	114.4	116.9	102.7	92.3	96.6	112.0	104.6	102.1			
12/24/93	18:00	8.333	135.8	127.5	127.0	122.9	125.2	121.5	119.5	110.9	116.1	101.9	89.8	94.9	112.1	103.9	100.5			
12/24/93	20:00	8.417	135.9	127.6	126.2	123.8	127.9	120.7	116.8	109.2	116.2	102.0	88.2	95.0	111.4	103.2	99.0			
12/24/93	22:00	8.500	136.0	125.0	127.1	123.0	119.3	120.7	119.7	109.2	116.2	102.0	89.1	93.3	111.5	103.3	99.9			
12/25/93	0:00	8.583	135.1	127.7	126.3	123.1	115.9	120.8	119.7	108.4	116.2	102.9	88.3	95.0	111.5	104.2	99.9			
12/25/93	2:00	8.667	136.9	125.9	125.4	124.8	121.1	121.6	119.7	109.3	117.1	102.9	89.2	95.9	112.4	104.2	99.9			
12/25/93	4:00	8.750	135.2	125.9	125.4	123.1	119.4	121.7	119.8	108.4	117.1	102.1	89.2	95.1	112.4	103.3	100.8			
12/25/93	6:00	8.833	136.0	126.6	126.3	123.1	124.6	121.7	120.6	110.2	117.1	102.9	90.9	95.9	112.4	105.1	100.9			
12/25/93	8:00	8.917	136.1	126.6	126.3	124.9	116.0	121.7	118.9	107.5	116.3	102.1	89.2	96.8	112.5	103.4	100.9			
12/25/93	10:00	9.000	137.7	130.2	129.7	125.6	111.6	123.4	121.4	109.2	115.4	98.5	90.0	97.7	111.5	105.9	100.7			
12/25/93	12:00	9.083	138.5	132.7	134.0	128.1	109.7	125.0	120.4	111.8	117.0	97.5	95.9	100.2	110.4	108.3	104.9			
12/25/93	14:00	9.167	142.6	134.3	136.4	130.5	120.7	128.4	124.5	119.6	119.5	100.0	98.3	100.9	112.7	109.8	106.4			
12/25/93	16:00	9.250	141.6	134.1	136.3	131.2	136.1	128.3	127.8	122.2	123.7	106.0	98.9	103.4	117.7	109.5	107.0			
12/25/93	18:00	9.333	140.9	131.7	131.2	128.8	144.9	124.9	125.4	117.0	121.2	107.9	95.7	100.0	116.2	107.2	103.8			
12/25/93	20:00	9.417	140.2	131.0	128.8	128.1	128.7	124.1	123.9	112.7	120.5	106.3	95.1	98.4	114.8	105.7	103.2			
12/25/93	22:00	9.500	139.4	130.2	129.7	129.1	124.5	125.1	124.0	111.0	119.6	106.3	93.4	99.4	114.9	106.7	103.3			
12/26/93	0:00	9.583	138.6	130.2	128.9	126.2	123.6	125.1	126.6	111.9	118.8	107.2	93.4	100.3	115.8	106.7	104.2			
12/26/93	2:00	9.667	139.5	130.2	128.9	126.3	124.5	125.1	123.2	111.0	118.8	106.4	94.3	99.4	115.8	105.9	104.2			
12/26/93	4:00	9.750	138.6	130.2	128.0	127.4	125.4	125.1	123.2	111.9	119.7	107.3	94.3	99.4	115.8	105.9	103.4			
12/26/93	6:00	9.833	138.6	130.3	128.9	127.4	125.4	125.1	124.1	112.8	120.6	107.3	94.4	100.3	115.8	107.7	105.1			
12/26/93	8:00	9.917	139.5	130.3	128.9	126.6	120.2	125.1	122.4	111.0	119.7	107.3	93.5	99.4	115.9	105.9	104.3			
12/26/93	10:00	10.000	140.3	132.8	132.3	129.9	104.6	126.8	122.2	109.2	115.3	102.0	96.0	101.1	111.4	109.3	102.4			
12/26/93	12:00	10.083	141.9	134.4	134.8	129.6	112.3	128.5	122.1	111.8	117.0	98.4	98.5	103.7	112.1	110.0	106.6			
12/26/93	14:00	10.167	145.3	136.9	138.2	133.2	130.3	131.0	128.0	124.1	123.0	104.4	103.5	104.5	116.2	111.6	108.1			
12/26/93	16:00	10.250	146.1	136.9	138.2	134.9	135.4	131.9	131.4	124.1	124.7	110.5	101.8	105.3	120.5	113.3	109.8			
12/26/93	18:00	10.333	144.5	134.4	134.8	132.4	143.3	126.5	129.0	118.8	124.7	110.6	100.2	103.6	119.8	110.8	108.3			

Table 5. Tensiometer Data

			Tensiometer Data																	
	Test		Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
12/26/93	20:00	10.417	143.7	134.5	133.1	131.6	133.9	128.5	128.2	118.9	123.1	109.8	99.4	104.6	118.2	110.1	108.7			
12/26/93	22:00	10.500	143.7	134.5	133.2	131.6	128.7	128.5	128.3	117.1	123.1	108.9	99.4	103.7	119.1	110.1	108.7			
12/27/93	0:00	10.583	143.7	134.5	134.1	131.7	128.8	127.7	128.3	116.2	123.1	109.8	99.5	103.7	118.3	110.1	108.7			
12/27/93	2:00	10.667	143.8	134.5	133.2	133.4	129.6	130.3	128.3	117.1	123.1	110.7	99.5	103.7	118.3	110.2	108.7			
12/27/93	4:00	10.750	143.8	134.5	133.2	131.7	123.6	128.6	128.6	116.3	123.1	108.9	99.5	102.9	118.3	110.2	106.8			
12/27/93	6:00	10.833	143.8	134.5	133.2	131.7	129.7	128.6	130.1	117.2	124.0	110.7	99.5	103.7	120.9	110.2	108.5			
12/27/93	8:00	10.917	143.8	134.5	133.2	132.6	125.3	128.6	128.6	115.4	123.1	109.0	100.4	104.6	119.2	111.1	107.6			
12/27/93	10:00	11.000	144.6	138.0	136.6	134.2	119.2	132.0	126.5	116.2	122.2	106.3	102.0	106.3	117.4	112.7	109.3			
12/27/93	12:00	11.083	145.4	138.7	138.3	135.9	116.6	132.8	129.0	118.8	122.1	104.5	103.6	107.1	116.4	115.2	110.9			
12/27/93	14:00	11.167	147.1	138.7	140.0	136.7	126.8	134.5	129.8	121.4	124.7	107.9	105.3	107.1	120.6	114.2	111.7			
12/27/93	16:00	11.250	147.9	139.6	139.1	135.8	140.7	135.4	134.1	127.6	128.2	114.0	108.2	108.0	123.2	115.1	112.5			
12/27/93	18:00	11.333	147.1	137.0	137.4	135.9	141.6	132.0	132.5	124.1	128.2	114.1	104.5	107.1	123.3	113.5	111.7			
12/27/93	20:00	11.417	148.0	137.9	137.5	136.8	135.6	133.7	131.6	123.2	126.5	112.3	104.6	108.0	122.5	113.5	111.8			
12/27/93	22:00	11.500	147.2	137.9	137.5	136.8	136.5	132.9	131.7	122.4	125.7	113.2	104.6	108.0	122.5	113.5	111.0			
12/28/93	0:00	11.583	147.2	137.1	137.5	136.8	130.4	132.9	131.7	121.5	126.5	112.4	103.7	108.1	121.7	113.6	111.8			
12/28/93	2:00	11.667	147.2	138.0	136.6	136.8	133.0	133.7	131.7	122.4	126.5	115.0	105.5	108.1	123.4	114.4	111.9			
12/28/93	4:00	11.750	147.2	138.0	136.7	136.9	132.2	132.9	131.7	121.5	126.6	113.3	103.8	108.1	123.5	114.5	111.9			
12/28/93	6:00	11.833	147.3	138.0	135.8	136.9	134.8	132.9	131.8	124.2	128.3	115.9	103.8	108.1	125.3	113.7	111.9			
12/28/93	8:00	11.917	147.3	138.0	135.8	136.9	124.5	132.9	131.8	118.9	126.6	116.0	103.9	108.1	124.4	113.7	112.0			
12/28/93	10:00	12.000	146.3	138.0	137.5	136.9		132.9	128.3	110.9	118.7	108.9	103.8	109.0	118.3	113.6	109.3			
12/28/93	12:00	12.083	145.3	141.3	141.8	139.3		135.4	129.8	117.9	121.3	102.7	106.2	110.6	118.9	115.2	115.1			
12/28/93	14:00	12.167	156.5	138.6	146.0	143.6	132.8	141.5	138.4	137.3	132.5	112.2	112.2	114.9	124.8	123.7	119.3	132.2		
12/28/93	16:00	12.250	150.4	139.5	142.5	140.1	145.7	137.1	138.3	134.6	133.3	116.8	110.4	112.3	127.4	117.6	116.7	145.3		
12/28/93	18:00	12.333	150.5	139.6	140.0	140.2	147.6	136.3	138.8	131.1	135.1	119.3	108.8	110.6	128.4	116.9	115.1	150.7		
12/28/93	20:00	12.417	148.9	138.8	139.3	139.5	139.1	133.7	134.3	123.3	130.0	117.6	106.4	109.8	125.2	116.2	114.4	148.3		
12/28/93	22:00	12.500	148.1	138.0	138.4	139.5	128.8	134.6	132.6	121.5	129.2	115.9	107.3	110.7	125.2	117.2	113.7	145.8		
12/29/93	0:00	12.583	149.9	138.9	139.3	140.4	123.6	135.5	133.5	123.3	130.0	116.8	105.6	110.7	125.2	117.2	113.7	145.8		
12/29/93	2:00	12.667	149.9	140.6	139.3	140.4	128.8	136.4	135.3	126.8	131.8	117.7	107.3	111.6	127.8	117.2	113.7	148.4		
12/29/93	4:00	12.750	148.1	139.8	138.5	136.7	126.2	133.8	135.3	123.3	130.1	118.6	106.5	110.8	126.2	116.3	113.7	149.3		
12/29/93	6:00	12.833	149.0	139.8	138.5	139.6	127.1	135.6	133.6	123.4	130.1	117.7	106.5	111.7	127.1	115.5	115.5	149.4		
12/29/93	8:00	12.917	149.0	139.8	138.5	139.6	123.7	135.6	135.3	123.4	130.1	117.7	107.4	110.8	126.2	117.2	115.5	149.4		
12/29/93	10:00	13.000	147.2	141.5	140.2	139.5		136.4	130.9	112.7	121.4	112.4	107.3	111.6	121.8	117.2	112.8	141.4		
12/29/93	12:00	13.083	150.6	144.0	144.4	142.0		138.9	129.9	122.4	124.7	107.1	111.5	114.2	121.6	121.3	118.6	133.3		
12/29/93	14:00	13.167	155.7	139.5	146.9	145.3	121.7	121.4	140.2	134.7	131.6	114.9	115.7	116.7	126.6	122.9	121.1	143.6		
12/29/93	16:00	13.250	155.7	141.2	146.1	144.4	138.9	117.1	141.9	139.0	139.4	119.2	113.9	115.8	131.8	122.0	120.2	154.1		
12/29/93	18:00	13.333	152.3	143.1	142.7	142.8	143.3	114.5	140.3	135.6	138.6	121.0	112.3	114.1	131.9	119.6	117.8	156.0		
12/29/93	20:00	13.417	150.7	141.4	140.2	143.0	136.5	111.9	137.8	127.7	133.5	120.3	109.9	112.5	128.6	118.0	116.2	152.7		
12/29/93	22:00	13.500	150.7	141.5	141.1	142.1	132.2	110.2	137.8	126.9	133.5	119.4	110.8	110.7	128.7	118.9	117.1	151.9		

Table 5. Tensiometer Data

Date	Time	Days	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
			Moisture (cm H ₂ O)	Tension (cm H ₂ O)	Moisture (cm H ₂ O)	Tension (cm H ₂ O)	Moisture (cm H ₂ O)	Tension (cm H ₂ O)	Moisture (cm H ₂ O)	Tension (cm H ₂ O)	Moisture (cm H ₂ O)	Tension (cm H ₂ O)	Moisture (cm H ₂ O)	Tension (cm H ₂ O)	Moisture (cm H ₂ O)	Tension (cm H ₂ O)	Moisture (cm H ₂ O)	Tension (cm H ₂ O)	Moisture (cm H ₂ O)	Tension (cm H ₂ O)
12/24/93	2:00	16.667	159.5	148.5	148.1	150.0			144.0	133.1	139.6	128.4	116.1	119.5	139.6	125.1	122.4	158.1		
12/24/93	0:00	16.663	159.5	148.5	147.2	150.0			144.8	133.9	140.5	127.3	116.0	119.5	134.8	125.1	122.4	158.1		
12/24/93	22:00	16.600	159.4	147.6	148.1	150.0	131.4		144.8	135.7	140.5	128.2	116.0	118.6	134.8	124.2	121.5	159.0		
12/24/93	20:00	16.417	159.4	148.4	147.1	150.8	134.8		145.6	134.0	140.0	128.1	117.7	119.4	136.4	124.9	123.9	160.6		
12/24/93	18:00	16.333	162.6	149.9	148.7	152.3			150.6	132.3	139.7	126.4	115.2	121.1	139.6	125.5	124.6	164.6		
12/24/93	16:00	16.250	165.1	145.4	145.8	153.8			149.5	147.8	143.6	127.0	122.4	123.6	136.5	129.6	126.9	159.1		
12/24/93	14:00	16.167	162.7	148.2	148.2	152.2			144.5	134.7	135.1	119.3	119.2	121.1	133.6	129.1	126.3	148.9		
12/24/93	12:00	16.083	156.7	148.3	148.0	149.0			134.3	119.7	124.8	112.4	119.4	120.3	126.8	129.2	125.6	140.4		
12/24/93	10:00	16.000	154.3	145.9	147.2	147.4			137.1	116.3	124.9	115.2	118.7	120.7	128.7	124.2	119.8	147.7		
12/24/93	8:00	15.917	155.2	146.0	144.7	147.5			140.6	128.7	136.2	124.8	112.7	117.0	134.1	122.6	120.8	155.7		
12/24/93	6:00	15.833	155.2	146.8	144.7	146.8			141.5	130.5	138.0	125.6	112.7	117.9	134.1	122.6	121.6	157.4		
12/24/93	4:00	15.750	156.0	146.8	144.8	147.4	133.2		142.3	131.3	139.7	126.5	114.4	117.8	134.8	123.4	121.6	158.2		
12/24/93	2:00	15.667	156.9	146.7	145.5	146.7	131.4		141.4	131.3	138.8	124.7	114.3	116.9	134.8	123.3	122.4	158.1		
12/21/93	0:00	15.583	156.8	146.8	144.8	147.4	132.2		139.4	128.5	138.7	126.4	114.3	116.9	134.8	123.3	120.6	158.1		
12/21/93	22:00	15.500	157.6	145.8	144.5	148.2	136.5		143.0	133.9	140.4	127.2	114.2	117.7	134.7	124.1	120.5	158.9		
12/21/93	20:00	15.417	157.6	142.2	146.2	148.1	139.0		143.8	137.3	142.1	126.3	115.0	118.5	134.6	124.0	122.1	158.7		
12/21/93	18:00	15.333	159.2	143.9	147.8	148.8	138.9		148.0	147.0	147.2	130.6	116.6	119.3	137.0	124.7	123.7	164.6		
12/21/93	16:00	15.250	162.5	144.6	152.1	150.4			146.9	145.1	142.8	123.5	119.9	121.9	135.1	127.1	125.2	155.7		
12/21/93	14:00	15.167	167.5	146.5	148.7	148.9			139.4	128.5	129.9	114.9	115.8	117.6	129.3	124.7	121.2	145.5		
12/21/93	12:00	15.083	153.3	147.5	149.7	147.3			133.4	117.1	123.9	111.5	114.2	117.7	124.3	124.0	121.3	136.7		
12/21/93	10:00	15.000	150.8	145.0	144.8	144.8			131.8	112.7	122.3	112.5	110.8	116.0	125.3	120.7	117.2	142.3		
12/21/93	8:00	14.917	154.3	145.0	143.8	145.7			139.7	128.9	134.5	121.2	111.8	114.3	130.8	119.9	118.1	153.0		
12/21/93	6:00	14.833	153.4	142.0	145.7	145.7			138.8	126.0	134.4	119.5	111.8	115.2	130.8	119.0	118.1	151.2		
12/21/93	4:00	14.750	154.3	145.0	142.9	145.7			139.7	126.9	134.4	122.1	111.7	115.2	130.5	120.7	119.0	153.6		
12/21/93	2:00	14.667	152.5	143.9	142.0	143.9			137.9	128.9	134.4	120.3	110.0	114.3	129.7	119.0	118.1	151.2		
12/21/93	0:00	14.583	153.4	143.2	142.0	144.8			138.8	126.9	134.4	121.2	110.0	114.3	130.5	119.0	117.2	152.9		
12/20/93	22:00	14.500	153.4	145.0	142.8	144.8			136.7	127.7	135.3	122.1	112.5	114.3	130.5	120.7	117.1	152.6		
12/20/93	20:00	14.417	153.3	144.0	142.8	144.7	145.1		139.5	131.2	138.7	122.9	111.6	115.1	132.1	120.6	117.1	156.2		
12/20/93	18:00	14.333	156.6	145.6	144.3	146.2	151.0	107.4	143.6	144.3	143.7	126.2	114.8	116.7	133.5	122.0	121.1	161.1		
12/20/93	16:00	14.250	159.0	143.7	147.8	138.7	110.9		145.2	146.0	141.9	122.6	117.2	118.3	133.3	123.6	122.6	154.7		
12/20/93	14:00	14.167	156.6	146.5	148.7	146.2	104.0		139.3	132.9	131.6	114.0	115.7	116.7	127.5	123.0	121.1	143.7		
12/20/93	12:00	14.083	152.4	146.6	145.5	145.5	97.1		131.7	120.6	124.8	109.8	112.4	116.8	122.5	121.3	119.9	136.9		
12/20/93	10:00	14.000	150.8	142.4	143.9	143.9	88.9		133.6	112.7	122.3	114.2	108.1	114.3	125.3	119.8	113.7	145.9		
12/20/93	8:00	13.917	150.0	141.6	139.4	141.4			136.3	121.6	131.0	119.5	108.3	110.8	128.9	118.2	114.7	151.3		
12/20/93	6:00	13.833	151.7	142.5	142.0	142.3			137.1	125.2	132.7	120.4	108.2	112.6	129.7	119.1	115.6	151.3		
12/20/93	4:00	13.750	150.8	140.7	139.4	142.2	106.8		136.2	125.2	132.7	119.5	109.2	111.7	128.0	119.1	115.5	151.2		
12/20/93	2:00	13.667	150.8	142.4	139.4	142.2	129.7		137.1	125.1	131.8	119.5	109.2	111.7	128.8	119.0	115.5	153.0		
12/20/93	0:00	13.583	151.7	141.5	140.2	141.3	132.3	109.4	137.1	126.0	133.6	119.5	107.4	111.7	128.8	119.0	116.3	152.0		

Tensiometer Data

Table 5. Tensiometer Data

		Tensiometer Data																		
		Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
1/2/94	4:00	16.750	159.5	147.6	147.2	150.9			145.7	134.0	140.5	128.2	116.1	119.6	136.6	126.0	124.1	158.2		
1/2/94	6:00	16.833	159.5	149.3	147.2	150.9			145.7	133.1	140.5	128.2	117.8	119.6	136.6	126.0	123.3	159.9		
1/2/94	8:00	16.917	158.6	148.5	148.1	150.0			144.9	131.3	139.6	128.2	116.1	118.7	136.6	124.2	123.3	159.9		
1/2/94	10:00	17.000	155.9	138.0	149.8	150.8			140.4	119.8	128.3	124.6	116.0	121.2	133.0	125.8	122.3	153.6		
1/2/94	12:00	17.083	157.6	135.3	152.3	150.7			136.8	120.6	130.0	116.7	118.4	123.8	129.4	129.2	128.2	146.5		
1/2/94	14:00	17.167	165.3	137.8	153.9	154.1			145.4	136.4	137.7	120.1	124.4	125.5	134.4	131.7	129.8	148.9		
1/2/94	16:00	17.250	168.7	127.4	153.9	156.6			155.7	153.1	149.8	133.2	125.2	126.3	141.2	132.4	129.7	163.7		
1/2/94	18:00	17.333	166.2	136.7	152.3	155.9	141.6		155.0	153.2	152.5	135.0	122.7	123.7	144.0	129.1	128.1	168.3		
1/2/94	20:00	17.417	161.1	142.3	149.8	154.3	142.6		149.1	143.6	147.4	132.5	119.4	123.0	139.1	127.6	126.6	164.1		
1/2/94	22:00	17.500	161.2	145.0	149.9	153.5	140.1		148.3	141.0	144.8	132.5	117.8	122.1	139.2	127.7	125.9	161.7		
1/3/94	0:00	17.583	161.3	145.0	149.0	152.7			146.6	135.7	142.2	129.9	117.9	121.3	138.4	127.8	125.9	161.7		
1/3/94	2:00	17.667	160.4	145.1	149.0	153.6			146.7	134.9	141.4	130.0	117.9	120.5	137.6	126.9	125.1	160.0		
1/3/94	4:00	17.750	161.3	145.1	148.2	153.6			145.8	134.9	142.3	130.9	117.9	123.1	139.3	127.0	125.1	160.1		
1/3/94	6:00	17.833	160.4	146.0	149.1	152.7			146.7	134.0	140.5	130.0	117.9	121.3	137.6	126.1	125.1	159.2		
1/3/94	8:00	17.917	159.6	144.2	148.2	152.8			145.9	131.4	140.6	128.3	117.1	121.4	137.6	127.9	124.3	159.2		
1/3/94	10:00	18.000	156.0	140.7	150.7	151.8			138.8	112.7	123.1	121.2	116.1	122.2	133.1	125.1	120.7	150.3		
1/3/94	12:00	18.083	159.4	141.4	155.8	153.4			136.9	117.9	125.6	115.6	120.3	124.7	129.5	129.3	128.3	143.9		
1/3/94	14:00	18.167	167.0	149.1	157.4	152.3			147.1	138.1	136.8	122.7	124.4	126.1	135.3	134.3	130.6	148.9		
1/3/94	16:00	18.250	171.2		159.0	152.2			157.3	156.6	150.6	133.1	128.6	129.7	142.0	134.1	133.0	160.9		
1/3/94	18:00	18.333	169.6		154.8	150.6	132.9		161.0	160.2	157.6	138.4	126.1	127.2	144.8	133.4	131.5	170.8		
1/3/94	20:00	18.417	166.3		152.3		137.3		153.3	148.8	151.6	135.9	122.8	125.5	141.5	129.2	129.1	167.5		
1/3/94	22:00	18.500	164.6		152.4		135.6		151.7	144.4	147.3	133.3	122.9	126.4	141.6	131.0	129.1	164.1		
1/4/94	0:00	18.583	164.7		152.4		139.2		150.9	144.5	149.1	133.4	123.0	125.6	141.7	129.4	129.3	165.1		
1/4/94	2:00	18.667	163.0		152.5		137.5		151.8	141.0	145.7	133.4	120.4	124.8	141.0	130.4	127.6	162.6		
1/4/94	4:00	18.750	164.8		152.5		136.7		151.0	140.1	145.7	134.3	121.3	124.8	141.9	129.5	128.5	165.3		
1/4/94	6:00	18.833	164.6		150.8		131.5		150.2	137.5	145.7	132.6	122.2	124.8	141.0	130.4	127.7	162.7		
1/4/94	8:00	18.917	163.0		151.7				150.2	136.6	144.0	133.5	120.5	124.0	141.0	128.7	127.7	163.6		
1/4/94	10:00	19.000	157.7		153.3				140.5	109.2	124.0	122.9	118.7	125.6	134.8	127.7	123.2	150.2		
1/4/94	12:00	19.083	159.3		158.4				137.7	117.9	124.7	117.6	122.8	128.2	132.0	130.1	129.1	143.9		
1/4/94	14:00	19.167	170.5		160.9				148.2	134.6	135.1	122.7	131.3	129.8	135.3	137.7	134.1	148.9		
1/4/94	16:00	19.250	174.8		160.0	151.4	113.0		166.1	162.8	156.7	137.5	130.4	132.4	148.2	135.1	135.7	168.0		
1/4/94	18:00	19.333	173.1		155.7		126.9		165.4	168.2	162.8	141.9	127.9	129.8	148.3	133.5	132.4	171.7		
1/4/94	20:00	19.417	167.2		153.3		128.8		156.0	155.0	154.3	137.7	124.6	127.3	145.1	131.9	130.9	166.5		
1/4/94	22:00	19.500	165.5		153.3		127.9		152.6	148.0	150.8	136.9	124.7	126.5	142.6	131.1	129.2	166.8		
1/5/94	0:00	19.583	166.4		153.3		126.2		152.7	144.5	149.1	135.1	123.0	126.5	141.8	131.2	129.3	165.1		
1/5/94	2:00	19.667	164.7		153.4		121.9		150.9	139.2	144.8	133.4	121.3	125.6	140.9	131.2	128.5	163.4		
1/5/94	4:00	19.750	164.7		154.2		118.5		149.2	137.4	143.1	132.5	123.0	126.5	139.2	131.2	128.4	160.8		
1/5/94	6:00	19.833	164.7		154.2		115.9		149.2	137.4	143.1	131.6	123.0	126.5	140.9	131.2	129.3	160.8		

Table 5. Tensiometer Data

			Tensiometer Data																	
		Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
1/2/94	8:00	19.917	164.7		154.2			115.0	151.8	138.3	143.9	130.8	123.9	127.4	140.9	132.1	130.2	128.4	162.5	
1/2/94	10:00	20.000	162.9		155.1			108.1	146.6	130.4	139.6	128.1	123.0	127.4	138.3	130.3	128.4	157.2		
1/2/94	12:00	20.083	152.4		155.8			84.7	132.6	104.7	118.7	116.7	116.8	127.3	130.3	124.0	125.7	143.9		
1/2/94	14:00	20.167	173.9		160.9	145.3	97.5		158.3	145.2	140.2	133.2	131.3	132.4	139.6	137.7	134.0	158.8		
1/2/94	16:00	20.250	176.5		162.6	147.9	100.9		157.4	150.4	149.7	134.0	131.2	134.1	142.9	142.0	137.4	161.0		
1/2/94	18:00	20.333	174.8		158.3	147.9	110.4		162.7	160.2	160.2	140.1	131.3	131.5	148.2	136.8	134.9	171.6		
1/2/94	20:00	20.417	169.7		157.5		114.8		158.5	154.1	156.8	140.2	127.9	130.7	146.6	134.4	133.3	170.0		
1/2/94	22:00	20.500	169.8		158.7		118.4		157.7	150.6	155.1	140.3	127.2	129.9	145.9	133.6	132.6	171.1		
1/2/94	0:00	20.583	168.1		155.9		118.4		156.0	147.1	150.8	138.6	126.4	129.1	144.2	134.6	130.9	168.5		
1/2/94	2:00	20.667	168.1		156.8		118.5		158.1	145.3	150.8	139.5	126.4	130.0	145.2	133.8	132.7	169.9		
1/2/94	4:00	20.750	168.2		158.0		120.2		154.4	141.8	149.1	136.9	124.6	130.0	144.4	132.1	131.9	168.9		
1/2/94	6:00	20.833	168.2		156.0		122.0		158.2	143.6	149.1	138.6	126.5	130.0	145.3	134.7	132.8	169.6		
1/2/94	8:00	20.917	169.1		156.0		122.0		154.4	141.9	149.1	137.8	126.5	130.0	145.3	134.7	132.8	167.0		
1/2/94	10:00	21.000	165.6		154.2		117.7		154.4	137.5	142.2	135.2	124.8	128.3	143.5	128.9	130.2	164.3		
1/2/94	12:00	21.083	160.3		159.4		108.1		145.7	123.3	133.5	125.5	125.6	130.9	138.3	134.7	133.6	153.7		
1/2/94	14:00	21.167	171.5		162.0		111.5		151.7	142.7	142.1	132.4	131.6	133.5	141.6	140.6	138.9	161.5		
1/2/94	16:00	21.250	178.4		161.9		120.1		164.6	157.6	156.8	142.0	133.2	135.2	151.0	141.4	140.3	171.0		
1/2/94	18:00	21.333	175.9		158.5		130.5		168.2	163.9	164.7	148.2	131.6	132.6	152.9	138.1	137.0	178.2		
1/2/94	20:00	21.417	171.7		156.9		134.1		163.1	157.8	163.1	145.7	128.3	131.8	150.5	136.5	135.4	175.8		
1/2/94	22:00	21.500	169.2		156.1		138.5		159.9	151.7	158.8	144.8	126.6	131.9	148.9	136.6	133.8	175.0		
1/2/94	0:00	21.583	170.1		155.2		141.9		158.0	149.9	156.2	142.2	127.5	131.0	148.0	136.7	134.7	172.4		
1/2/94	2:00	21.667	171.0		155.3		143.7		157.2	147.3	155.3	142.3	126.7	130.2	148.1	135.8	133.9	172.5		
1/2/94	4:00	21.750	170.1		156.1		148.9		157.2	147.3	154.5	142.3	126.7	131.0	148.1	135.0	133.0	171.6		
1/2/94	6:00	21.833	170.1		155.3		148.1		157.3	147.3	154.5	142.3	126.8	131.1	148.1	135.0	133.9	170.8		
1/2/94	8:00	21.917	169.3		155.3		144.6		155.5	143.8	151.9	142.3	125.9	130.2	149.0	135.0	133.9	170.8		
1/2/94	10:00	22.000	163.1		157.8				148.5	120.7	133.6	131.8	124.9	131.0	144.6	129.7	128.6	161.9		
1/2/94	12:00	22.083	161.3		161.2				141.4	113.6	129.2	121.2	127.4	132.7	138.4	135.6	135.4	153.0		
1/2/94	14:00	22.167	171.6		162.9				150.8	133.0	138.7	128.1	132.5	134.4	143.4	141.6	137.8	158.0		
1/2/94	16:00	22.250	181.8		166.2				126.7	166.2	165.5	160.3	142.8	139.2	143.0	151.6	146.6	142.8	172.6	
1/2/94	18:00	22.333	180.2		161.1				156.4	171.6	171.8	169.0	149.0	135.0	135.2	155.4	139.7	139.5	180.7	
1/2/94	20:00	22.417	175.2		159.5	144.4	102.4	164.9	164.9	167.4	148.5	130.0	132.7	152.2	138.3	136.3	177.5			
1/2/94	22:00	22.500	172.7		157.0		148.0	98.9	160.7	156.1	162.3	145.7	129.3	132.8	152.4	136.6	135.6	175.1		
1/2/94	0:00	22.583	171.8		157.9		150.6	97.2	158.1	150.8	157.1	142.3	126.5	131.9	148.1	136.7	135.6	172.5		
1/2/94	2:00	22.667	171.0		156.2		148.1	95.5	157.3	148.2	156.2	142.3	125.9	131.9	148.1	135.0	134.8	170.8		
1/2/94	4:00	22.750	170.1	151.3	157.0		147.2	93.7	157.3	143.8	153.6	139.7	126.8	131.9	148.1	136.8	133.9	169.0		
1/2/94	6:00	22.833	171.9	151.3	157.0		144.6	93.7	158.1	147.3	154.5	142.3	126.8	131.9	148.1	137.6	134.8	171.7		
1/2/94	8:00	22.917	171.0	154.8	157.9		139.4	90.2	157.3	143.8	152.8	142.3	125.9	132.0	148.2	135.0	134.0	170.8		
1/2/94	0:00	23.000	161.3	151.2	156.1				144.1	112.8	124.9	126.5	125.8	131.9	140.2	131.4	126.5	158.4		

Table 5. Tensiometer Data

		Tensiometer Data																		
		Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
1/8/94	12:00	23.083	161.2		166.4				139.6	108.3	124.0	120.3	128.2	134.4	138.3	134.7	134.5	150.3		
1/8/94	14:00	23.167	171.5		167.1			90.9	149.9	132.9	138.6	128.0	135.0	135.2	143.2	140.5	139.4	157.9		
1/8/94	16:00	23.250	185.2		167.8			98.7	169.5	166.3	159.3	145.3	139.1	140.3	154.2	147.3	144.3	173.3		
1/8/94	18:00	23.333	181.9		162.8			93.5	173.3	177.1	169.8	150.7	135.9	136.9	156.2	141.5	140.3	181.5		
1/8/94	20:00	23.417	176.0		161.2		132.3		164.6	164.8	164.7	147.3	130.8	134.4	152.1	137.3	137.1	177.4		
1/8/94	22:00	23.500	175.2		161.2		132.3		161.4	158.7	159.6	143.9	130.0	134.4	149.6	138.2	137.2	172.2		
1/9/94	0:00	23.583	175.2		160.4		130.6		161.4	155.1	157.8	143.0	130.0	134.4	149.6	138.3	137.2	174.0		
1/9/94	2:00	23.667	175.2		160.4		128.1		161.5	154.3	159.6	144.8	130.1	134.5	150.6	138.3	137.2	172.3		
1/9/94	4:00	23.750	175.3		159.6		130.7		161.5	151.7	156.2	142.2	130.1	134.5	148.9	138.4	136.4	172.4		
1/9/94	6:00	23.833	173.5		161.4				160.7	151.7	156.2	142.2	130.2	133.6	148.9	137.5	136.5	173.3		
1/9/94	8:00	23.917	172.7		158.7				159.8	146.4	153.6	142.3	128.4	135.4	149.8	135.8	135.6	171.6		
1/9/94	10:00	24.000	164.8		159.5				145.8	116.3	126.6	128.2	125.7	133.6	141.9	132.2	131.1	158.3		
1/9/94	12:00	24.083	162.9		168.2				141.4	110.9	125.7	121.1	131.7	137.0	138.3	138.1	137.0	151.1		
1/9/94	14:00	24.167	171.5		168.0				147.3	126.7	135.1	126.3	134.1	136.9	144.1	139.7	139.4	156.1		
1/9/94	16:00	24.250	186.0		170.4				168.7	161.0	156.7	143.6	142.5	143.8	155.0	146.1	144.3	172.4		
1/9/94	18:00	24.333	188.7		166.2				180.0	180.5	173.2	155.9	139.2	141.2	161.2	145.6	145.3	183.9		
1/9/94	20:00	24.417	182.0		163.8				173.4	175.3	172.5	154.3	135.1	137.8	159.0	141.6	141.3	181.7		
1/9/94	22:00	24.500	178.6		162.1		127.1		168.3	166.6	169.1	150.0	132.6	137.0	154.8	141.7	139.7	179.2		
1/10/94	0:00	24.583	178.7		162.1		130.6		166.6	164.9	167.4	149.1	133.5	136.2	154.0	140.9	139.8	176.7		
1/10/94	2:00	24.667	176.1		162.2		131.6		166.7	158.7	164.0	147.5	133.6	138.0	154.1	141.0	139.0	175.9		
1/10/94	4:00	24.750	176.2		161.3		130.7		164.1	157.0	162.3	145.7	131.9	136.3	153.2	141.0	139.0	175.1		
1/10/94	6:00	24.833	176.2		162.2				163.3	152.6	159.7	147.5	131.9	138.0	152.4	140.2	139.0	175.1		
1/10/94	8:00	24.917	175.3		162.2		125.5		161.5	150.8	157.9	145.7	130.2	136.3	152.4	139.3	136.2	174.2		
1/10/94	10:00	25.000	166.5		161.3		113.4		151.0	119.8	129.2	131.7	128.3	135.3	145.3	134.8	132.9	161.8		
1/10/94	12:00	25.083	164.6		166.1		104.6		144.8	112.7	128.3	124.6	132.5	136.7	141.7	138.1	139.6	157.2		
1/10/94	14:00	25.167	175.8		171.5		104.5		152.4	130.2	139.4	132.4	140.1	140.4	147.5	147.5	144.5	161.3		
1/10/94	16:00	25.250	191.3		173.9		114.7		175.6	166.3	162.8	148.8	146.0	145.5	158.5	155.1	149.5	177.7		
1/10/94	18:00	25.333	193.1		166.6		126.9		185.3	189.4	180.2	162.0	143.6	142.1	164.8	149.2	148.9	189.3		
1/10/94	20:00	25.417	184.7		164.7		134.0		178.7	182.5	180.4	159.6	138.7	138.8	161.7	144.3	143.1	188.0		
1/10/94	22:00	25.500	180.4		163.0		139.3		171.8	173.7	175.2	156.2	137.0	138.6	156.3	142.7	142.4	182.6		
1/11/94	0:00	25.583	179.6		163.1		141.1		168.4	166.5	171.8	152.7	136.2	138.9	157.5	142.7	140.7	181.2		
1/11/94	2:00	25.667	179.7		163.1		143.7		168.5	165.8	170.1	152.8	135.4	138.9	157.6	141.9	139.9	179.5		
1/11/94	4:00	25.750	178.8		164.0		144.6		166.8	163.2	166.4	151.0	134.6	139.0	155.9	142.0	140.9	179.6		
1/11/94	6:00	25.833	178.8		163.2		142.9		165.1	158.6	164.9	150.2	134.6	138.1	155.1	142.0	140.9	177.8		
1/11/94	8:00	25.917	176.2		161.4		136.0		163.4	150.9	159.7	147.5	132.0	138.1	153.3	139.4	139.1	175.2		
1/11/94	10:00	26.000	166.3		149.1		116.9	123.4	154.6	83.6	99.7	135.2	119.7	139.8	148.0	116.5	119.1	165.4		
1/11/94	12:00	26.083	161.2		170.8		108.1		139.6	118.9	125.7	121.1	134.3	139.7	139.2	142.5	141.4	152.9		
1/11/94	14:00	26.167	178.7		173.2		106.2		150.7	135.5	141.2	130.6	142.7	142.1	146.7	146.4	146.3	160.4		

Table 5. Tensiometer Data

			Tensiometer Data																	
	Test		Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
1/11/94	18:00	26.250	190.4		173.9		114.7		173.0	163.7	161.0	148.2	146.9	147.3	158.5	153.3	150.4	176.8		
1/11/94	18:00	26.333	194.0		169.7		126.9		185.3	185.8	182.8	159.4	143.6	144.7	164.8	150.1	149.7	189.3		
1/11/94	20:00	26.417	185.6		166.4		132.3		179.5	179.8	181.2	158.7	139.5	140.5	159.9	144.3	144.0	186.2		
1/11/94	22:00	26.500	183.0		165.7		132.4		173.6	172.8	176.1	155.3	137.0	140.6	158.3	143.5	142.4	182.8		
1/12/94	0:00	26.583	180.5		165.7		130.7		170.2	164.9	172.7	152.7	138.8	141.5	157.5	143.6	142.5	180.3		
1/12/94	2:00	26.667	179.7		164.0		129.9		167.6	164.9	170.1	152.7	137.1	139.8	158.4	143.7	141.6	179.5		
1/12/94	4:00	26.750	180.5		164.9		130.7		168.5	161.4	167.5	152.8	137.2	139.8	156.8	143.7	142.5	180.4		
1/12/94	6:00	26.833	179.7		165.8		128.2		166.8	158.8	166.6	151.0	137.2	140.7	156.8	142.8	143.4	177.8		
1/12/94	8:00	26.917	179.7		164.0		125.6		166.8	154.4	163.2	150.2	134.6	139.8	156.8	142.0	140.0	178.7		
1/12/94	10:00	27.000	170.0		164.8		115.1		154.5	130.4	137.0	140.5	133.6	138.9	150.6	137.5	137.2	167.1		
1/12/94	12:00	27.083	165.5		169.9		106.4		146.6	118.9	129.1	128.1	135.2	141.4	143.5	141.7	140.5	157.3		
1/12/94	14:00	27.167	176.7		173.2		104.5		151.6	130.3	138.6	133.3	143.6	143.0	149.3	148.4	146.3	162.2		
1/12/94	16:00	27.250	188.7		174.8		112.1		170.4	155.7	156.7	145.3	147.8	149.0	159.4	155.1	151.3	176.8		
1/12/94	18:00	27.333	194.9		172.3		120.0		185.3	178.7	176.7	159.4	147.0	145.6	166.5	152.7	150.6	189.2		
1/12/94	20:00	27.417	189.0		168.1		127.1		181.2	176.2	177.7	159.5	141.2	144.0	163.3	146.9	147.4	187.9		
1/12/94	22:00	27.500	183.9		167.4		132.3		175.3	171.9	176.1	156.1	141.3	143.2	161.7	147.0	144.9	184.5		
1/13/94	0:00	27.583	183.1		167.4		132.4		171.9	169.3	170.9	154.4	139.7	142.3	159.2	146.2	143.3	181.1		
1/13/94	2:00	27.667	183.1		165.7		134.2		171.9	164.9	169.2	153.6	139.7	141.5	158.4	147.1	145.1	181.2		
1/13/94	4:00	27.750	183.1		166.6		135.0		170.2	163.2	170.1	152.7	139.7	141.5	159.3	145.4	144.2	179.5		
1/13/94	6:00	27.833	180.5		166.6		132.5		169.4	161.4	167.5	152.7	138.9	142.4	159.4	145.4	144.3	179.5		
1/13/94	8:00	27.917	179.7		166.6		130.8		168.5	157.9	164.0	151.9	137.2	141.6	158.5	143.7	143.4	179.5		
1/13/94	10:00	28.000	171.7		167.4		116.8			130.4	135.3	140.4	135.3	141.5	150.6	137.4	139.0	168.8		
1/13/94	12:00	28.083	164.6		174.3		106.4			118.8	127.4	127.2	137.7	143.1	144.3	143.3	143.1	156.1		
1/13/94	14:00	28.167	176.6		174.9		104.5			130.2	138.5	131.5	145.3	143.9	149.2	150.9	148.0	161.2		
1/13/94	16:00	28.250	193.8		177.4		113.0		175.5	161.9	160.1	152.3	152.0	152.5	161.9	158.5	154.6	180.2		
1/13/94	18:00	28.333	197.5		174.1		123.4		188.7	182.3	180.2	162.0	150.5	148.2	168.2	156.1	154.0	191.0		
1/13/94	20:00	28.417	191.6		170.7		126.2		181.2	179.8	181.2	160.4	144.7	145.7	165.9	151.2	149.1	187.8		
1/13/94	22:00	28.500	167.3		170.0		134.1		178.7	176.3	180.4	158.7	141.3	144.9	161.7	148.7	146.7	186.2		
1/14/94	0:00	28.583	184.8		169.1		130.6		175.3	172.8	176.9	157.0	140.5	145.0	161.8	147.9	146.7	184.6		
1/14/94	2:00	28.667	185.7		168.3		131.6		175.4	172.0	176.1	156.2	140.6	145.0	161.9	147.1	145.9	182.9		
1/14/94	4:00	28.750	164.0		169.2		129.0		172.0	167.6	172.7	155.4	140.6	145.0	159.3	147.2	146.0	183.0		
1/14/94	6:00	28.833	183.2		168.4		130.8		171.1	165.0	170.1	155.4	140.6	145.1	160.2	147.2	146.0	181.3		
1/14/94	8:00	28.917	182.3		167.5		125.6		170.3	160.5	167.5	152.8	138.9	144.2	159.4	145.5	143.4	181.3		
1/14/94	10:00	29.000	172.6		168.3		114.3			136.6	142.3	137.8	136.2	142.4	151.5	139.2	139.9	168.9		
1/14/94	12:00	29.083	164.7		173.4		101.2			115.3	123.9	123.7	138.6	144.0	145.2	141.6	142.2	157.2		
1/14/94	14:00	29.167	174.9		175.0		97.6			125.8	135.1	131.5	143.6	143.9	151.0	147.5	146.3	161.3		
1/14/94	16:00	29.250	195.6		179.2		107.0		177.4	161.9	161.9	151.5	153.9	154.3	163.8	161.3	156.5	181.2		
1/14/94	18:00	29.333	197.5		175.9		116.6		188.9	181.4	180.2	163.8	151.5	150.9	169.2	158.0	155.8	191.1		

Table 5. Tensiometer Data

		Tensiometer Data																		
		Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
1/14/94	20:00	29.417	182.5		172.6		121.1		185.6	180.7	181.2	184.8	144.8	147.5	168.0	151.3	150.1	189.7		
1/14/94	22:00	29.500	189.1		170.0		119.4		182.3	175.5	180.4	183.1	144.0	145.0	165.3	149.7	148.5	186.3		
1/15/94	0:00	29.583	184.8		170.1		116.9		175.4	171.1	174.4	157.1	140.6	145.0	161.9	148.0	146.8	183.8		
1/15/94	2:00	29.667	184.8		170.1		116.9		171.9	167.6	171.8	158.2	144.0	145.9	161.0	148.0	146.8	182.0		
1/15/94	4:00	29.750	184.8		170.1		113.4		171.9	164.9	168.3	152.7	141.4	147.6	160.1	148.8	146.8	181.1		
1/15/94	6:00	29.833	186.6		170.9		114.3		171.9	163.1	169.2	155.3	143.2	148.5	161.9	149.7	148.5	182.9		
1/15/94	8:00	29.917	184.8		171.0		113.4		171.9	161.4	166.6	152.7	142.3	145.0	161.9	148.0	146.8	181.2		
1/15/94	10:00	30.000	178.7		171.8		108.2			148.1	154.4	143.1	140.5	145.0	156.6	144.5	144.2	173.2		
1/15/94	12:00	30.083	171.7		171.7		98.6			131.2	139.6	133.4	140.4	144.9	151.3	141.7	144.0	166.0		
1/15/94	14:00	30.167	178.5		176.8		95.1			134.7	142.1	135.9	146.3	148.3	153.7	150.2	149.9	166.7		
1/15/94	16:00	30.250	189.7		176.8		96.8		171.5	158.8	158.8	149.0	152.4	151.8	161.4	156.3	153.3	178.0		
1/15/94	18:00	30.333	194.2		176.8		102.0		182.9	171.8	170.7	159.5	150.7	151.0	165.9	155.5	154.3	186.0		
1/15/94	20:00	30.417	191.7		174.3		105.5		183.0	172.7	174.3	160.4	146.5	147.5	166.0	152.2	151.8	187.1		
1/15/94	22:00	30.500	190.8		173.5		106.4		180.5	171.9	174.3	160.5	146.5	148.4	166.1	152.2	151.0	187.2		
1/16/94	0:00	30.583	188.3		171.8		107.3		178.8	170.2	173.5	159.7	143.1	148.5	163.6	150.6	150.2	186.4		
1/16/94	2:00	30.667	188.3		173.6		106.5		178.9	169.3	173.5	159.7	144.0	148.5	163.6	152.3	150.2	183.8		
1/16/94	4:00	30.750	186.6		172.7		106.5		175.4	165.8	170.1	158.2	144.9	145.9	161.9	148.9	148.5	182.9		
1/16/94	6:00	30.833	187.5		172.7		106.5		175.4	164.9	170.9	156.2	144.1	148.5	161.9	150.6	150.3	183.8		
1/16/94	8:00	30.917	186.6		171.0		105.7		174.5	161.4	169.2	155.3	140.6	145.9	161.9	148.0	146.8	184.7		
1/16/94	10:00	31.000	173.5		170.9		91.8			131.3	134.4	138.7	137.9	145.0	154.0	138.3	140.8	168.8		
1/16/94	12:00	31.083	168.1		177.7		83.9			117.1	125.6	127.2	141.2	148.4	147.7	145.1	147.4	160.7		
1/16/94	14:00	31.167	187.2		176.8		93.4		175.1	156.8	159.5	156.0	150.7	148.3	162.4	159.0	156.8	181.6		
1/16/94	16:00	31.250	195.0		180.2		100.2		181.9	168.2	169.8	162.9	154.1	156.2	168.3	163.2	158.5	189.4		
1/16/94	18:00	31.333	200.3		177.7		108.1		190.7	181.5	183.8	168.2	152.5	154.5	172.8	162.5	159.4	194.8		
1/16/94	20:00	31.417	196.0		174.4		115.1		189.2	183.4	187.3	168.3	147.4	151.1	173.0	155.7	154.5	191.5		
1/16/94	22:00	31.500	193.5		173.5		123.8		185.8	183.4	187.4	166.7	148.4	149.4	171.4	156.7	153.7	193.4		
1/17/94	0:00	31.583	192.7		173.6		125.5		185.8	182.6	187.4	166.7	145.8	148.5	169.7	154.1	152.9	194.4		
1/17/94	2:00	31.667	191.0		172.8		127.3		181.6	179.1	184.9	165.9	145.0	148.6	168.1	153.3	152.1	190.1		
1/17/94	4:00	31.750	189.3		171.9		123.9		179.0	175.6	182.3	163.3	145.1	149.5	165.5	150.8	151.3	187.5		
1/17/94	6:00	31.833	188.4		172.6		123.0		178.1	175.6	180.6	163.3	145.9	148.6	166.4	152.5	151.3	187.5		
1/17/94	8:00	31.917	185.8		171.1		120.4		177.3	165.9	176.2	160.7	141.6	147.8	165.5	148.2	147.8	186.7		
1/17/94	10:00	32.000	175.3		171.9		110.0		162.4	140.2	144.9	145.7	140.6	147.7	157.6	141.0	141.7	173.3		
1/17/94	12:00	32.083	168.2		177.8		101.2			123.3	128.3	129.0	141.3	150.2	149.8	145.2	148.3	162.6		
1/17/94	14:00	32.167	176.7		180.3		100.2			132.9	142.1	138.5	154.1	151.8	154.5	157.2	155.9	168.4		
1/17/94	16:00	32.250	195.6		181.8		102.7		173.9	156.6	158.4	150.6	158.1	159.5	165.4	165.5	160.7	181.2		
1/17/94	18:00	32.333	206.1		181.0		113.0		193.9	182.2	183.6	168.9	160.8	157.8	175.0	168.2	164.3	196.1		
1/17/94	20:00	32.417	199.4		177.7		117.6		191.6	183.3	188.1	169.1	151.8	154.5	172.8	159.0	157.7	195.7		
1/17/94	22:00	32.500	196.0		176.1		121.1		189.1	182.5	187.3	168.3	150.0	151.9	172.1	155.7	156.1	193.2		

Table 5. Tensiometer Data

		Tensiometer Data																		
		Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
11/18/94	0:00	32.583	192.6		175.2		122.0		185.7	180.7	186.5	167.5	149.2	152.0	168.7	156.6	153.6	192.4		
11/18/94	2:00	32.667	192.7		174.4		123.6		183.2	179.0	183.9	166.7	147.5	152.0	169.6	155.0	153.7	189.9		
11/18/94	4:00	32.750	190.9		173.6		122.1		182.4	175.5	183.1	163.2	147.6	151.2	166.2	154.1	152.9	189.1		
11/18/94	6:00	32.833	191.0		173.6		120.4		181.5	175.5	180.5	163.2	147.6	151.2	168.0	153.3	152.9	190.0		
11/18/94	8:00	32.917	187.5		172.8		116.9		178.1	166.5	174.4	159.7	144.1	148.6	166.3	149.0	151.2	185.7		
11/18/94	10:00	33.000	175.2		173.5		105.6		163.2	137.5	144.0	145.7	141.4	148.5	155.7	140.0	142.4	172.3		
11/18/94	12:00	33.083	180.2		180.3		103.7		175.1	140.0	129.9	154.3	153.3	151.8	152.0	153.7	149.9	185.1		
11/18/94	14:00	33.167	172.2		181.9		94.9			125.7	137.6	127.9	151.3	150.8	153.4	155.2	156.5	160.3		
11/18/94	16:00	33.250	197.2		186.0		99.1		172.8	155.6	159.2	148.7	161.4	161.2	167.8	166.8	163.1	179.2		
11/18/94	18:00	33.333	211.2		181.8		109.6		196.4	186.6	186.1	169.7	165.1	160.4	179.2	170.8	166.8	197.8		
11/18/94	20:00	33.417	205.5		177.7		118.4		197.6	188.4	192.4	173.5	155.1	154.5	176.2	162.5	161.2	199.2		
11/18/94	22:00	33.500	199.5		177.8		118.5		192.6	186.0	189.9	170.9	150.9	152.8	173.0	157.4	157.0	195.9		
11/19/94	0:00	33.583	194.4		178.1		120.3		189.2	183.4	187.4	169.2	150.9	152.0	172.2	155.8	155.4	193.4		
11/19/94	2:00	33.667	193.5		177.1		119.5		186.7	181.7	187.4	166.7	149.3	152.0	169.7	156.7	155.5	192.6		
11/19/94	4:00	33.750	192.7		177.1		119.5		184.1	179.1	186.6	166.7	148.5	152.9	169.7	155.9	154.6	190.0		
11/19/94	6:00	33.833	192.8		175.4		116.1		183.3	177.3	184.0	165.0	148.5	152.1	169.8	156.6	154.7	189.2		
11/19/94	8:00	33.917	190.1		175.4		115.2		180.7	172.0	178.8	163.3	145.9	151.2	168.9	151.6	152.1	188.3		
11/19/94	10:00	34.000	175.2		174.4		102.2			137.5	143.1	143.1	139.7	148.5	158.3	138.3	140.7	172.3		
11/19/94	12:00	34.083	167.2		183.8		90.8			115.3	128.2	128.1	140.3	152.7	149.4	141.6	149.9	159.8		
11/19/94	14:00	34.167	174.8		184.4		94.9	88.2		151.3	142.8	141.0	165.1	154.3	153.4	158.6	158.2	172.4		
11/19/94	16:00	34.250	193.7		186.8	180.7	103.4	88.1	172.6	172.3	155.6	145.2	160.5	162.0	167.7	164.4	163.0	179.1		
11/19/94	18:00	34.333	209.5		184.4	189.6	114.7		199.0	192.7	184.4	169.7	164.2	162.1	161.8	165.5	168.5	196.6		
11/19/94	20:00	34.417	206.3		180.3	186.4	121.0		200.2	183.2	189.8	174.3	155.0	158.0	178.8	159.9	162.9	199.2		
11/19/94	22:00	34.500	202.1		179.6	172.7	126.3		196.9	179.8	190.8	174.4	151.7	156.3	175.6	158.3	160.5	198.5		
12/20/94	0:00	34.583	199.6		177.9		130.7		193.6	175.5	190.9	174.5	150.1	155.5	174.8	157.6	158.0	196.9		
12/20/94	2:00	34.667	196.2	144.3	177.1		134.2		190.2	172.0	190.9	171.1	148.4	155.6	174.1	156.8	157.2	194.4		
12/20/94	4:00	34.750	194.5	136.5	176.2		135.9		186.7	172.0	190.1	170.2	148.5	155.6	172.3	156.5	158.1	193.5		
12/20/94	6:00	34.833	196.2	141.7	178.0		136.5		185.9	172.0	189.2	170.2	150.2	154.7	172.4	157.7	159.0	193.6		
12/20/94	8:00	34.917	191.9	152.2	177.2		140.3		184.2	167.6	184.9	167.6	145.0	153.9	170.7	154.2	154.7	191.0		
12/20/94	10:00	35.000	177.0		177.1		127.2		161.5	141.0	149.2	145.7	141.4	152.0	160.1	142.7	142.5	176.8		
12/20/94	12:00	35.083	166.4		182.1		119.3			140.0	130.0	132.5	143.8	154.5	150.4	148.6	151.7	163.3		
12/20/94	14:00	35.167	172.2	136.1	187.1		115.6			151.3	135.0	130.5	157.4	155.2	155.1	164.8	159.1	164.6		
12/20/94	16:00	35.250	203.2		189.4		120.6			185.5	162.6	154.7	166.5	166.1	172.0	173.9	169.9	186.0		
12/20/94	18:00	35.333	216.3	131.6	186.1		131.0		186.7	204.1	191.2	177.5	167.6	165.5	166.0	172.4	172.7	205.5		
12/20/94	20:00	35.417	209.7		181.1		133.8		193.2	196.4	192.3	183.0	157.5	159.6	179.5	162.3	163.6	206.6		
12/20/94	22:00	35.500	202.0	131.9	181.2		136.5		191.6	186.8	192.4	177.8	153.3	158.0	178.0	159.9	161.2	198.3		
12/21/94	0:00	35.583	202.1	129.4	180.4		140.9		196.0	185.1	196.8	177.0	154.3	158.9	178.1	161.8	161.3	199.3		
12/21/94	2:00	35.667	199.6	134.7	180.5		144.5		196.2	182.5	197.6	177.1	154.4	159.0	176.5	161.9	161.5	196.9		

Table 5. Tensiometer Data

		Tensiometer Data																		
		Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
1/21/94	4:00	36.750	197.9	136.5	178.8		148.0		194.5	178.2	194.4	173.7	150.2	155.5	174.0	159.4	158.9	197.0		
1/21/94	6:00	36.833	198.2	140.0	178.0		148.9		193.7	178.4	195.3	173.7	152.0	157.3	173.2	159.5	159.0	196.2		
1/21/94	8:00	36.917	191.9	136.5	177.2		188.0		188.4	170.3	190.1	170.3	147.7	154.7	171.6	156.0	155.8	193.6		
1/21/94	10:00	36.000	175.3	133.0	177.1		137.6			138.4	152.7	149.2	140.6	152.1	161.9	142.8	143.4	178.6		
1/21/94	12:00	36.083	163.0		183.0		128.0			130.4	130.0	127.3	144.7	154.6	149.6	148.7	150.9	160.8		
1/21/94	14:00	36.167	178.7		187.2		126.9			158.7	145.5	138.5	161.0	157.0	158.8	171.0	163.6	170.1		
1/21/94	16:00	36.250	200.6		189.4		130.1		171.9	178.5	180.0	155.6	164.8	168.1	172.0	172.2	167.4	185.2		
1/21/94	18:00	36.333	216.5		187.1		139.8		202.6	202.5	190.5	179.4	170.4	166.6	185.4	172.7	173.0	205.8		
1/21/94	20:00	36.417	209.9	132.8	183.0		144.4		208.1	197.4	194.2	181.4	155.2	159.8	182.4	164.4	164.7	203.7		
1/21/94	22:00	36.500	203.9	142.5	181.4		148.8		206.6	191.4	194.3	180.6	154.4	159.0	179.1	161.9	162.3	203.0		
1/22/94	0:00	36.583	198.8	144.3	180.6		148.8		203.2	186.1	194.4	177.2	151.0	158.2	177.5	161.1	161.5	199.6		
1/22/94	2:00	36.667	198.2	142.6	179.7		150.6		199.7	181.7	194.4	175.5	151.9	159.1	174.9	159.4	159.8	197.0		
1/22/94	4:00	36.750	198.2	146.1	179.8		152.4		198.1	179.1	191.8	173.7	151.1	158.2	173.2	159.4	158.1	195.3		
1/22/94	6:00	36.833	195.4	149.5	178.9		184.4		198.3	177.3	191.0	173.7	152.0	158.2	173.3	159.5	161.6	194.5		
1/22/94	8:00	36.917	192.8	146.1	178.0		147.2		192.0	172.0	188.4	170.3	148.5	158.2	173.3	156.0	157.3	192.8		
1/22/94	10:00	37.000	174.4	139.0	177.9		140.2		164.9	141.0	152.7	148.3	141.4	152.0	160.9	144.4	146.7	177.6		
1/22/94	12:00	37.083	162.9	132.8	183.8		130.5		140.4	129.4	130.0	128.9	143.8	155.4	150.3	147.7	150.8	164.2		
1/22/94	14:00	37.167	178.1	134.2	190.3		126.7		143.4	147.7	139.2	133.9	164.0	162.0	158.3	169.7	162.2	186.9		
1/22/94	16:00	37.250	201.3	132.3	192.8		129.9		171.7	180.1	159.9	155.5	168.1	169.7	173.5	178.1	169.7	186.7		
1/22/94	18:00	37.333	217.4	139.6	188.0		140.7		202.6	203.4	187.9	178.5	171.3	168.3	188.3	176.1	173.8	204.9		
1/22/94	20:00	37.417	210.7	139.8	183.9		144.3		208.1	201.8	194.2	181.3	158.6	162.4	183.2	166.0	167.3	206.2		
1/22/94	22:00	37.500	203.8		183.9		147.8		207.3	194.8	194.2	179.7	156.1	161.5	179.8	163.5	163.9	202.6		
1/23/94	0:00	37.583	199.5	134.6	181.3		147.9		203.0	189.6	194.3	177.1	154.4	159.0	177.3	163.6	162.2	200.3		
1/23/94	2:00	37.667	195.2		181.4		147.9		198.1	181.6	189.9	173.6	150.9	159.0	173.9	160.1	160.5	193.3		
1/23/94	4:00	37.750	197.0		181.4		148.8		197.9	181.6	190.8	173.6	155.3	161.6	175.7	162.8	162.3	196.9		
1/23/94	6:00	37.833	197.0		181.4		151.4		197.1	179.9	190.9	173.7	154.5	159.9	178.6	162.0	161.5	197.0		
1/23/94	8:00	37.917	192.7		180.6		175.7		193.7	176.4	188.3	171.1	151.1	158.2	174.1	159.4	159.8	195.3		
1/23/94	10:00	38.000	175.2		180.4		137.5			143.6	152.6	147.4	140.4	154.6	161.7	143.5	146.6	177.5		
1/23/94	12:00	38.083	157.6		184.6		127.9			125.6	125.6	124.5	147.2	158.0	148.5	148.5	151.6	159.7		
1/23/94	14:00	38.167	178.2		191.3		126.7			147.7	141.0	134.8	163.3	163.0	161.0	171.6	164.1	168.8		
1/23/94	16:00	38.250	208.5		194.7		131.0		177.2	182.9	185.2	159.2	172.7	175.2	177.3	182.7	174.3	190.5		
1/23/94	18:00	38.333	216.6		188.9		138.1		202.7	203.4	188.0	179.5	169.6	168.4	186.4	176.2	173.9	206.8		
1/23/94	20:00	38.417	206.3		184.7		140.0		201.1	196.5	188.1	176.9	160.2	164.1	180.5	166.0	167.2	202.6		
1/23/94	22:00	38.500	200.3		184.7		140.0		197.7	190.3	187.2	172.6	158.8	162.4	178.0	163.4	163.8	197.4		
1/24/94	0:00	38.583	202.9		186.5		141.7		199.4	188.6	187.2	174.3	159.4	164.1	178.9	167.8	165.5	200.1		
1/24/94	2:00	38.667	201.2		183.9		144.4		202.1	187.7	190.8	177.0	158.7	162.4	179.0	165.2	164.8	200.2		
1/24/94	4:00	38.750	199.5		183.9		144.4		199.5	186.0	186.4	172.7	158.9	162.4	174.7	164.4	163.9	197.6		
1/24/94	6:00	38.833	193.4		183.9		144.4		192.6	178.9	183.6	170.1	154.3	161.6	172.9	161.8	162.2	193.2		

Table 5. Tensiometer Data

			Tensiometer Data																	
		Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
1/24/94	8:00	38.917	193.4		183.9		143.6		190.0	176.3	180.4	166.6	153.5	161.6	173.0	161.8	162.2	193.3		
1/24/94	10:00	39.000	180.3		184.7		140.9			158.6	164.7	153.4	149.9	158.0	165.9	152.1	154.3	181.7		
1/24/94	12:00	39.083	170.6		183.8		128.7			138.2	138.6	141.1	147.2	159.7	154.5	148.5	150.7	171.9		
1/24/94	14:00	39.167	169.5		188.7		124.1			136.2	135.8	128.7	154.6	158.6	156.7	161.9	159.8	158.3		
1/24/94	16:00	39.250	205.0		194.8		130.1			179.4	164.4	161.8	171.9	175.2	177.3	182.8	174.4	164.4		
1/24/94	18:00	39.333	220.9		191.5		139.0		204.4	205.2	189.7	181.2	177.4	173.6	189.8	183.2	179.9	165.6		
1/24/94	20:00	39.417	214.2		188.2		141.7		209.8	202.7	193.3	184.8	184.6	166.7	186.6	171.2	171.5	153.7		
1/24/94	22:00	39.500	207.3		186.5		144.4		210.8	198.4	195.1	184.0	159.5	185.9	184.2	187.0	167.3			
1/25/94	0:00	39.583	203.0		184.8		144.4		208.5	193.1	194.3	182.3	157.8	164.2	179.9	166.2	165.7			
1/25/94	2:00	39.667	203.0		184.8		147.9		205.7	190.5	193.4	180.6	157.9	165.1	179.1	165.4	164.0			
1/25/94	4:00	39.750	200.5		184.0		148.8		205.7	187.9	195.2	180.6	157.9	162.5	179.2	165.4	164.1			
1/25/94	6:00	39.833	200.5		185.0		150.6		203.2	186.1	194.4	177.2	158.0	163.5	178.4	166.4	164.2			
1/25/94	8:00	39.917	193.6		182.4		148.0		199.8	180.8	187.5	173.7	152.8	161.7	176.7	159.4	161.6			
1/25/94	10:00	40.000	175.2		181.4		138.4			147.2	155.2	150.0	144.8	158.1	163.5	145.3	148.4			
1/25/94	12:00	40.083	159.4		187.3		127.0			125.9	130.8	124.6	142.9	158.9	148.5	145.9	152.5			
1/25/94	14:00	40.167	174.0		193.2		126.0			147.8	142.0	139.3	172.2	162.2	157.8	172.7	163.5			
1/25/94	16:00	40.250	203.5		195.0		126.9			178.8	162.8	165.5	171.3	176.3	175.1	182.3	172.1			
1/25/94	18:00	40.333	223.7		193.4		134.8		202.0	201.8	188.1	181.3	171.6	174.6	186.6	163.4	179.3			
1/25/94	20:00	40.417	213.5		187.5		141.0		205.7	201.1	192.6	180.6	165.7	165.1	189.5	172.3	172.7			
1/25/94	22:00	40.500	211.8		187.5		144.5		210.1	200.2	194.4	184.2	160.6	166.1	190.4	169.8	170.1			
1/25/94	0:00	40.583	206.6		185.8		145.4		209.3	195.0	194.4	180.7	158.9	166.1	183.5	166.4	166.7			
1/25/94	2:00	40.667	204.1		185.0		148.0		211.1	193.2	194.4	182.5	158.9	164.4	183.6	166.4	166.8			
1/25/94	4:00	40.750	200.6		185.0		149.8		207.6	189.7	191.9	180.8	159.8	165.3	180.2	166.5	165.1			
1/25/94	6:00	40.833	199.7		185.9		146.1		203.3	188.8	191.0	177.3	158.1	163.5	179.3	166.4	165.9			
1/25/94	8:00	40.917	198.0		185.0		149.8		202.4	182.7	187.5	176.4	157.2	163.5	179.3	165.6	164.3			
1/26/94	10:00	41.000	190.1		185.9		146.3		190.2	176.5	179.7	165.9	158.0	163.5	172.3	162.0	163.3			
1/26/94	12:00	41.083	189.2		188.4		143.6		180.6	172.9	171.8	160.6	158.8	165.2	169.6	166.3	164.1			
1/27/94	0:00	41.583	200.6		187.7		150.7		199.8	183.6	173.6	174.7	159.0	168.2	180.2	167.4	167.7			
1/27/94	12:00	42.083	175.3		188.4		141.1			143.7	144.0	142.3	152.8	162.6	162.8	155.9	160.7			
1/28/94	0:00	42.583	207.6		191.2		154.1		207.7	194.2	171.1	167.8	162.5	167.1	183.7	170.0	167.7			
1/28/94	12:00	43.083	193.7		189.5		158.5		189.5	173.9	154.6	171.3	158.2	165.4	176.0	162.2	163.5			
1/29/94	0:	43.583	203.5		189.6		165.6		202.7	183.8	173.8	177.5	159.3	167.3	185.7	170.3	168.9			
1/29/94	12:00	44.083	170.3		194.8		150.0			133.4	131.2	137.3	151.4	164.7	162.3	149.3	157.6			
1/30/94	0:00	44.583	206.1		193.1		160.4			188.2	177.3	177.6	168.8	170.8	184.0	172.0	170.6			
1/30/94	12:00	45.083	184.3		191.4		160.4			167.0	151.3	161.8	155.8	165.6	172.8	159.8	161.1			
1/31/94	0:00	45.583	208.8		192.4		174.4			191.0	173.1	190.8	163.8	171.0	189.4	171.4	172.6			
1/31/94	12:00	46.083	183.5		195.9		165.7			149.4	147.9	153.2	156.8	169.2	172.0	160.8	161.3			
2/1/94	0:00	46.583	215.9		193.4		222.1		185.6	196.4	176.7	190.1	169.2	171.1		175.9	174.5			

Table 5. Tensiometer Data

		Tensiometer Data																		
		Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
2/1/94	12:00	47.083	180.9		203.8		162.3			138.8	204.5	155.0	155.1	167.5	213.7	187.1	173.4			
2/2/94	0:00	47.583	216.8		196.0		311.4		198.7	200.9	197.6	192.7	170.0	173.7		175.9	177.1			
2/2/94	12:00	48.083	181.8		202.9		160.5			145.0	217.5	151.5	161.2	168.4		179.2	178.9			
2/3/94	0:00	48.583	215.9		196.9		184.9		198.7	195.5	186.3	190.1	170.0	174.6		174.1	178.8			
2/3/94	12:00	49.083	171.3		199.3		150.9			125.5	108.7	139.1	152.3	169.2		142.4	158.6			
2/4/94	0:00	49.583	216.6		201.9		163.1		181.9	201.6		189.9	172.4	178.8		173.9	179.4			
2/4/94	12:00	50.083	193.0		204.5		154.3		181.9	167.9		163.6	169.7	177.9		166.8	174.1			
2/5/94	0:00	50.583	218.4		202.9		160.5			199.9		192.6	175.9	182.4		178.3	182.0			
2/5/94	12:00	51.083	170.3		198.4		146.6			129.0		140.9	144.5	168.3		124.0	150.7			
2/6/94	0:00	51.583	223.0		201.3		170.2			208.9		203.3	178.8	181.7		184.7	185.8			
2/6/94	12:00	52.083	176.6		202.0		151.9			131.7		148.8	149.0	171.9		135.5	159.5			
2/7/94	0:00	52.583	224.7		202.1		165.9			208.9		198.9	176.1	182.5		183.8	185.7			
2/7/94	12:00	53.083	198.4		203.8		157.1			169.8		168.1	168.2	178.9		158.3	171.7			
2/8/94	0:00	53.583	217.7		207.4		158.0			192.9		168.3	178.7	182.5		176.8	183.1			
2/8/94	12:00	54.083	208.9		206.5		154.5			182.2		181.3	172.6	183.4		168.8	178.7			
2/9/94	0:00	54.583	220.3		206.5		163.3			195.6		192.7	179.7	186.1		178.6	184.9			
2/9/94	12:00	55.083	210.6		220.5		162.3			180.5		177.8	166.5	192.1		173.2	185.6			
2/10/94	0:00	55.583	229.2		205.6		172.9			212.5		206.0	185.9	187.0		190.1	191.1			
2/10/94	12:00	56.083	177.5		208.2					130.0		148.9	149.9	175.5		123.3	160.5			
2/11/94	0:00	56.583	229.9		207.4		167.6			213.3		200.6	184.9	187.8		190.0	191.9			
2/11/94	12:00	57.083	175.7		206.4		148.4			142.4		161.1	150.7	175.4		117.1	159.6			
2/12/94	0:00	57.583	233.5		209.2		169.4			210.7		203.3	167.6	189.6		193.5	194.5			
2/12/94	12:00	58.083	195.1		211.0		169.4			161.1		171.7	160.5	182.6		133.1	169.3			
2/13/94	0:00	58.583	238.0		208.5		192.9			223.2		217.4	190.4	192.3		197.2	199.1			
2/13/94	12:00	59.083	178.5		209.2		174.5			124.7		149.8	144.8	178.2			159.8			
2/14/94	0:00	59.583	234.4		208.3		184.2			214.2		205.9	186.8	189.6		190.1	193.7			
2/14/94	12:00	60.083	174.0		205.6		162.4			117.6		144.5	141.2	175.5			155.3			
2/15/94	0:00	60.583	240.5		211.9		181.6			220.5		212.1	194.6	194.0		193.6	199.0			
2/15/94	12:00	61.083	174.0		209.1					118.5		144.5	141.2	179.0			157.9			
2/16/94	0:00	61.583	244.8		211.9		184.1			230.2	172.4	218.2	197.2	194.9		186.6	202.3			
2/16/94	12:00	62.083	165.2		209.9					130.8	142.7	139.2	142.0	178.0			157.8			
2/17/94	0:00	62.583	242.0		214.3		174.4			219.4	204.5	209.2	202.1	198.2	192.1	180.6	201.2			
2/17/94	12:00	63.083	172.1		202.8					140.5	167.0	149.6	143.6	177.1	163.3		158.6			
2/18/94	0:00	63.583	234.9		215.1					206.0	204.4	196.9	197.7	199.9	196.3	178.3	195.0			
2/18/94	12:00	64.083	210.6		211.6					167.5	191.4	184.7	181.2	193.0	185.9		180.4			
2/19/94	0:00	64.583	243.9		211.9					219.5	220.3	216.4	199.8	200.2	214.0	187.4	203.2			
2/19/94	12:00	65.083	190.6		218.2					163.7	186.3	162.1	158.7	186.9	180.9		168.4			
2/20/94	0:00	65.583	244.0		214.5		180.7			219.6	223.6	215.6	200.7	201.1	217.5	183.1	203.3			

Table 5. Tensiometer Data

			Tensiometer Data																	
		Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
2/20/94	12:00	66.083	188.0		217.0					151.3	183.7	159.4	150.8	186.9	180.9		167.5			
2/21/94	0:00	66.583	247.5		214.5		184.2			223.1	224.7	219.1	204.2	202.0	217.6		204.1			
2/21/94	12:	67.083	214.2		214.4		174.5			184.9	202.8	184.0	179.6	194.8	198.3		182.3			
2/22/94	0:00	67.583	237.0		216.3		178.1			208.0	215.9	202.4	198.9	201.0	209.7		196.3			
2/22/94	12:00	68.083	222.1		222.3		172.0			191.2	204.6	191.9	189.3	204.5	199.2		189.3			
2/23/94	0:00	68.583	244.1		215.5		186.0			214.3	224.7	213.9	199.1	200.3	217.7		201.7			
2/23/94	12:00	69.083	190.7		214.5		174.6			146.9	184.6	167.4	148.3	187.9	184.5		185.0			
2/24/94	0:00	69.583	253.7		218.1		192.9			224.1	230.0	221.8	213.9	204.7	221.2		210.4			
2/24/94	12:00	70.083	174.9		215.3					168.0	142.8	135.1	184.3	171.3			154.5			
2/25/94	0:00	70.583	258.8		220.6		185.9			226.6	226.4	240.1	219.9	208.1	223.6		211.0			
2/25/94	12:00	71.083	167.8		216.8		165.7			160.9	153.2	130.6	182.4	171.1			153.4			
2/26/94	0:00	71.583	265.7		221.4		188.4			237.2	229.8	236.5	225.8	211.5	227.8		218.7			
2/26/94	12:00	72.083	173.1		214.3		168.3			165.3	155.0	131.5	182.5	174.7			156.1			
2/27/94	0:00	72.583	262.1		222.2		183.1			231.8	225.4	229.4	228.3	213.2	225.0		215.1			
2/27/94	12:00	73.083	203.5		220.3		169.9			161.8	187.0	175.9	172.3	198.2	195.3		177.6			
2/28/94	0:00	73.583	254.2		222.2		177.9			217.6	219.3	218.9	219.6	212.3	219.8		209.9			
2/28/94	12:00	74.083	223.7		223.9		173.5			183.1	201.9	192.6	189.0	205.3	205.9		189.9			
2/28/94	0:00	74.583	256.1		223.2		190.2			220.4	227.2	223.4	214.6	212.5	225.3		210.1			
2/28/94	12:00	75.083	184.4		216.9		175.3					160.2	133.3	187.7	181.7		165.7			
2/29/94	0:00	75.583	268.3		224.1		196.2			233.7	230.7	235.7	230.2	216.0	233.0		221.3			
2/29/94	12:00	76.083	173.1		217.8		177.8			153.2	135.9	187.7	175.5				161.3			
2/29/94	0:00	76.583	267.4		224.0		194.4			232.7	219.3	231.2	233.6	215.9	229.5		218.6			
2/29/94	12:00	77.083	162.5		214.2		173.4					146.1	128.8	184.1	168.5		155.9			
2/29/94	0:00	77.583	270.9		224.9		191.8			234.5	181.1	233.0	234.5	217.7	230.4		218.7			
2/29/94	12:00	78.083	165.1		215.9							140.9	116.6	181.5	166.7		154.2			
2/29/94	0:00	78.583	274.4		226.7		184.9			238.1		235.6	247.6	222.1	232.1		223.0			
2/29/94	12:00	79.083	172.1		216.7							144.4	129.6	184.1	170.1		156.8			
2/29/94	0:00	79.583	276.9		228.4					239.8		235.6	247.5	222.1	233.8		222.1			
2/29/94	12:00	80.083	168.6		215.0							144.4	118.3	183.2			157.6			
2/29/94	0:00	80.583	282.1		230.1					224.7		240.8	250.9	225.5			226.3			
2/29/94	12:00	81.083	234.9		228.2							204.0	202.0	210.5			195.9			
2/29/94	0:00	81.583	261.3		228.4							225.1	220.6	218.6			211.7			
2/29/94	12:00	82.083	247.4		226.7							221.7	211.1	209.8			205.8			
2/29/94	0:00	82.583	262.3		230.3					123.9		228.7	207.7	217.8			210.2			
2/29/94	12:00	83.083	224.7		225.8							198.9	184.9	205.4			191.0			
2/10/94	0:00	83.583	278.9		232.9		178.1			121.2		241.9	234.7	223.0			223.2			
2/10/94	12:00	84.083	183.6		224.8							158.5	129.0	196.5			170.0			
2/11/94	0:00	84.583	273.5		233.7		171.0					230.4	233.7	221.2			218.7			

Table 5. Tensiometer Data

		Tensiometer Data																			
		Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f	
3/11/94	12:00	85.083	185.2		228.4							156.6	158.5	195.5			171.6				
3/12/94	0:00	85.583	269.1		235.4		167.5					228.6	228.4	222.0			217.6				
3/12/94	12:00	86.083	250.0		231.1		175.4					217.3	217.2	213.3			207.5				
3/13/94	0:00	86.583	275.4		233.8		190.2					240.9	224.2	222.1			220.6				
3/13/94	12:00	87.083	194.0		231.8		177.0					171.6	157.7	200.0			172.6				
3/14/94	0:00	87.583	284.0		237.2		188.4					241.8	230.2	226.5			224.8				
3/14/94	12:00	88.083	172.2		223.0		165.7					142.6	116.7	187.6			163.0				
3/15/94	0:00	88.583	286.6		238.9		177.9					239.9	251.1	231.7			225.6				
3/15/94	12:00	89.083	171.2		221.1		165.5					146.0	132.2	189.3			166.2				
3/16/94	0:00	89.583	296.0		240.5		176.1					246.7	250.9	236.7			230.6				
3/16/94	12:00	90.083	177.3		223.8		163.9					152.1	124.4	196.3			180.2				
3/17/94	0:00	90.583	293.4		237.0		169.2					244.1	257.8	236.7			227.1				
3/17/94	12:00	91.083	193.0		215.9							166.1	154.0	195.4			174.1				
3/18/94	0:00	91.583	293.5		235.3							245.9	251.8	236.8			229.0				
3/18/94	12:00	92.083	182.5		217.5							156.4	139.1	194.4			180.0				
3/19/94	0:00	92.583	267.3		235.3							240.6	252.7	237.6			228.9				
3/19/94	12:00	93.083	210.5		214.2							182.8	155.0	199.8			185.4				
3/20/94	0:00	93.583	286.4		234.4		170.9					238.8	247.4	237.6			225.4				
3/20/94	12:00	94.083	242.9		228.3		167.5					208.2	198.7	213.9			201.2				
3/21/94	0:00	94.583	293.6		235.5		181.5					249.4	243.3	237.7			229.1				
3/21/94	12:00	95.083	190.5		223.0		169.1					156.2	122.8	196.9			178.5				
3/22/94	0:00	95.583	300.5		235.4		177.9					249.4	258.0	240.2			229.0				
3/22/94	12:00	96.083	211.3		236.0		161.2					175.7	166.2	209.3			181.9				
3/23/94	0:00	96.583	299.5		236.2		166.6					244.9	251.8	241.9			228.9				
3/23/94	12:00	97.083	199.0		222.8							163.4	140.9	201.4			188.7				
3/24/94	0:00	97.583	302.9		238.7		170.0					249.1	257.7	245.3			232.2				
3/24/94	12:00	98.083	209.5		222.8		165.5					177.3	194.9	204.9			195.7				
3/25/94	0:00	98.583	308.1		237.8		171.7					251.7	247.2	241.7			231.3				
3/25/94	12:00	99.083	243.4		229.7		162.9					198.2	175.6	212.7			196.4				
3/26/94	0:00	99.583	299.3		238.6		166.2					247.3	240.2	239.9			226.9				
3/26/94	12:00	100.083	234.6		208.0							190.4	151.4	197.8			179.3				
3/27/94	0:00	100.583	296.6		240.5		176.1					247.4	246.5	240.0			228.0				
3/27/94	12:00	101.083	283.8		247.5		183.0					229.9	230.0	234.8			219.3				
3/28/94	0:00	101.583	300.6		239.0		197.9					255.4	237.2	234.9			232.6				
3/28/94	12:00	102.083	235.0		226.6		183.1					186.2	136.8	204.1			183.0				
3/29/94	0:00	102.583	306.6		242.4		191.8					254.4	254.6	243.6			234.3				
3/29/94	12:00	103.083	210.4		223.8		175.1					167.6	143.6	199.5			183.6				
3/30/94	0:00	103.583	317.0		246.8		191.8					261.4	268.4	251.4			242.9				

Table 5. Tensiometer Data

			Tensiometer Data																		
		Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f	
3/30/94	12:00	104.083	227.9		230.8		178.6					182.5	180.2	203.9				192.4			
3/31/94	0:00	104.583	311.9		248.0		184.9					259.6	258.1	246.2				236.0			
3/31/94	12:00	105.083	197.3		221.1							151.8	116.6	189.8				180.1			
4/1/94	0:00	105.583	310.8		247.6							254.2	269.2	253.0				233.2			
4/1/94	12:00	106.083	194.6		223.6							147.4	113.0	194.9				182.6			
4/2/94	0:00	106.583	313.4		247.5							255.9	274.4	250.3				234.9			
4/2/94	12:00	107.083	227.1		223.8							178.0	139.3	194.1				192.4			
4/2/94	0:00	107.583	320.7		246.9							263.8	279.1	247.8				243.1			
4/3/94	12:00	108.083	196.7		216.9							154.4	153.4	182.8				187.3			
4/4/94	0:00	108.583	310.0		247.6							252.4	257.9	244.1				229.8			
4/4/94	12:00	109.083	195.9		210.4							145.5	132.5	175.4				182.6			
4/5/94	0:00	109.583	313.5		249.4							254.1	281.5	246.8				234.2			
4/5/94	12:00	110.083	257.7		238.9							206.0	199.6	205.6				199.5			
4/6/94	0:00	110.583	321.7		247.9							264.8	270.5	243.5				245.0			
4/6/94	12:00	111.083	216.6		218.6							181.5	135.0	175.7				188.1			
4/7/94	0:00	111.583	310.7		251.9							253.1	255.2	246.7				230.5			
4/7/94	12:00	112.083	241.7		240.3							190.9	179.1	198.3				199.9			
4/8/94	0:00	112.583	316.1		252.0							258.4	264.9	245.9				238.5			
4/8/94	12:00	113.083	267.0		245.6							213.7	205.3	209.7				209.5			
4/9/94	0:00	113.583	304.8		248.5							249.7	257.1	233.6				229.9			
4/9/94	12:00	114.083	211.3		217.6							164.7	156.6	178.2				194.0			
4/10/94	0:00	114.583	314.4		253.7							253.2	263.2	243.2				234.2			
4/10/94	12:00	115.083	284.6		247.5							229.5	231.7	217.7				217.6			
4/11/94	0:00	115.583	313.7		252.1							257.7	258.4	232.8				237.8			
4/11/94	12:00	116.083	277.8		242.4							227.8	217.0	209.0				214.2			
4/12/94	0:00	116.583	319.9		258.3							262.1	259.9	239.9				239.6			
4/12/94	12:00	117.083	226.2		226.5							178.9	157.6	183.5				198.5			
4/13/94	0:00	117.583	321.5		261.8							262.1	267.7	246.9				238.7			
4/13/94	12:00	118.083	203.3		217.5							160.4	139.1	173.8				190.4			
4/14/94	0:00	118.583	322.2		264.2							258.5	270.1	252.9				234.9			
4/14/94	12:00	119.083	212.8		224.4							166.5	153.8	191.3				193.7			
4/15/94	0:00	119.583	326.4		268.5							261.9	276.0	262.5				240.0			
4/15/94	12:00	120.083	211.9		220.0							169.9	152.0	194.7				204.0			
4/16/94	0:00	120.583	336.7		269.2							275.0	288.1	266.8				247.6			
4/16/94	12:00	121.083	208.3		216.1							169.0	150.1	191.2				204.7			
4/17/94	0:00	121.583	336.5		270.8							274.9	286.9	264.1				244.0			
4/17/94	12:00	122.083	204.7		218.0							163.7	145.6	200.8				201.1			
4/18/94	0:00	122.583	334.6		272.4							271.3	286.8	258.8				241.2			

Table 5. Tensiometer Data

Tensiometer Data																				
Date	Time	Days ¹	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
			C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
4/18/94	12:00	123.083	210.7		217.9							170.6	157.6	196.3			201.8			
4/19/94	0:00	123.583	329.2		271.4							267.7	282.2	252.5			240.1			
4/19/94	12:00	124.083	218.4		223.9							174.9	171.4	205.0			205.1			
4/20/94	0:00	124.583	329.2		268.8							268.5	278.7	251.6			241.9			
4/20/94	12:00	125.083	203.6		216.8							160.9	145.3	203.2			203.2			
4/21/94	0:00	125.583	335.3		271.4							271.2	286.6	253.4			242.8			
4/21/94	12:00	126.083	190.5		213.3							147.6	140.1	200.5			201.5			
4/22/94	0:00	126.583	332.6		274.8							271.1	286.4	249.8			240.0			
4/22/94	12:00	127.083	197.5		217.7							155.7	150.6	203.2			205.0			
4/23/94	0:00	127.583	336.1		275.7							274.6	289.1	249.9			243.5			
4/23/94	12:00	128.083	217.5		225.6							171.4	173.2	204.1			208.5			
4/24/94	0:00	128.583	332.0		271.5							273.0	283.3	244.7			242.0			
4/24/94	12:00	129.083	213.3		224.0							169.8	165.5	201.6			204.4			
4/25/94	0:00	129.583	330.1		275.8							268.6	279.7	241.2			239.3			
4/25/94	12:00	130.083	248.5		235.7							198.9	194.6	203.6			207.5			
4/26/94	0:00	130.583	339.1		275.2							277.6	283.5	243.1			245.7			
4/26/94	12:00	131.083	231.8		230.4							189.2	176.9	193.9			209.1			
4/27/94	0:00	131.583	332.7		281.9							275.6	279.7	238.6			241.9			
4/27/94	12:00	132.083	320.7		268.9							266.1	264.2	228.1			237.8			
4/28/94	0:00	132.583	333.9		274.3							279.3	273.0	234.4			247.4			
4/28/94	12:00	133.083	278.8		267.9							224.1	223.1	211.4			219.4			
4/29/94	0:00	133.583	224.0		280.2	211.1			142.6	188.9	215.3	239.7	250.0		169.0	235.0				
4/29/94	12:00	134.083	230.2		271.5	234.5			145.3	194.2	219.8	236.3	250.1		187.4	236.9	189.2			
4/30/94	0:00	134.583	267.9		281.5	272.0			186.1	207.4	269.0	264.6	259.9		228.0	256.4	235.2			
4/30/94	12:00	135.083			241.7	203.2			140.3	154.2	175.3	220.2				198.6	168.0			
5/1/94	0:00	135.583			287.2	287.9			209.7	182.0	280.0	282.3	265.8		248.4	265.3	248.7			
5/1/94	12:00	136.083			245.9	223.8					172.5	192.5	224.5		173.1	205.3	181.8			
5/2/94	0:00	136.583	260.6		288.1	296.6			218.6		282.7	279.8	265.8			265.4	261.0			
5/2/94	12:00	137.083	206.4		258.2	238.5					205.7	208.2	237.6			221.8	215.1			
5/3/94	0:00	137.583	285.1		290.8	308.0			227.5		269.7	285.1	269.4			269.6	269.0			
5/3/94	12:00	138.083			252.8	234.9					185.5	199.4	231.4			213.0	200.9			
5/4/94	0:00	138.583	290.2		293.4	312.2			232.7		294.0	289.4	272.6			275.0	275.1			
5/4/94	12:00	139.083			243.1	213.2						168.8	214.6			194.7	171.9			
5/5/94	0:00	139.583	289.0		294.8	310.9			230.7		295.4	293.2	274.3			277.0	272.8			
5/5/94	12:00	140.083			239.4	214.8						174.7	214.5			194.5	170.8			
5/6/94	0:00	140.583	294.1		296.4	312.6			234.2		296.3	295.8	277.8		215.7	281.3	273.6			
5/6/94	12:00	141.083			221.0			147.3	164.3				160.7	196.9		184.9	175.0			
5/7/94	0:00	141.583	297.5	330.5	303.3	257.7	282.3	231.1	281.7		186.9		307.8	284.7	204.7	288.1	280.5			

Table 5. Tensiometer Data

			Tensiometer Data																	
		Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
5/7/84	12:00	142.083	254.9	277.5	273.6	248.9	259.8	232.9	256.4		193.0		282.6	252.3	208.0		249.1	258.7		
5/8/84	0:00	142.583	282.9	294.3	290.4	276.1	285.1	252.2	279.3		199.2		280.3	269.1	230.0		285.9	278.4		
5/9/84	12:00	143.083			228.9	190.5	171.6	188.3	204.2		152.2		156.5	207.5	192.2		188.4	178.0		
5/9/84	0:00	143.583	281.9	319.3	300.7	286.4	293.5	262.5	288.5		208.6		293.1	278.8	243.6		277.7	272.6		
5/10/84	12:00	144.083	200.1	229.8	259.5	239.2	236.4	221.5	239.0		180.0		217.3	234.7	217.4		222.2	219.8		
5/10/84	0:00	144.583	289.0	302.1	302.6	297.0	304.9	273.1	294.8		213.1		292.4	279.6	253.3		279.7	279.9		
5/10/84	12:00	145.083	251.8	281.3	274.7	278.8	275.6	260.0	275.8		200.9		253.4	250.7	239.5		246.9	258.0		
5/11/84	0:00	145.583	277.0	281.4	293.2	295.4	303.4	273.2	287.2		212.3		273.5	265.7	252.6		261.7	275.7		
5/11/84	12:00	146.083	213.3	229.1	266.7	240.3	259.0	234.7	245.3		181.0		224.5	243.8	223.7		232.0	229.8		
5/12/84	0:00	146.583	276.2	291.1	298.6	298.2	307.0	273.3	287.4		213.3		271.1	268.7	253.7		263.6	274.1		
5/12/84	12:00	147.083	249.3	267.7	283.8	280.9	292.4	263.8	272.7		202.9		252.0	254.5	243.4		250.7	255.0		
5/13/84	0:00	147.583	264.1	289.5	296.9	291.3	300.2	266.4	280.5		211.6		264.2	267.7	248.6		259.4	265.5		
5/13/84	12:00	148.083		197.1	243.3	200.5	211.7	194.7	196.9		149.0		169.1	217.5	202.3					
5/14/84	0:00	148.583		307.7	311.8	299.1	307.0	272.5	293.5		212.5		286.8	279.9	255.5		275.0	240.9		
5/14/84	12:00	149.083		189.2	243.2	202.1	206.4	192.0	200.3		143.7		172.4	218.3	207.4					
5/15/84	0:00	149.583		320.6	317.8	308.6	316.4	282.9	307.3		203.7		303.2	288.7	262.3			220.6		
5/15/84	12:00	150.083		194.4	245.8	211.6	216.8	199.9	207.1		133.3		180.2	221.8	209.9		212.1			
5/16/84	0:00	150.583		308.4	310.7	304.2	314.6	280.3	303.8		203.7		293.6	280.7	259.6		277.3	214.4		
5/16/84	12:00	151.083		200.4	253.6	213.3	225.3	203.3	209.7		134.1		188.8	228.8	208.9		218.9			
5/17/84	0:00	151.583		310.0	315.0	305.8	320.6	281.9	307.1		204.5		296.9	285.0	262.1		281.5	223.0		
5/17/84	12:00	152.083		185.5	246.4	205.3	214.8	196.2	206.0		131.4		173.9	221.6	206.2		211.8			
5/18/84	0:00	152.583		317.5	317.2	308.9	321.0	286.9	311.0		209.5		303.4	290.0	266.0		285.4	235.8		
5/19/84	13:52	161.161		277.3	296.1	313.2	321.0	283.0	300.6		205.6		276.5	272.1	263.4		265.6			
5/20/84	13:53	161.162		277.4	296.1	313.2	321.8	283.9	300.6		204.7		276.5	272.1	263.4		265.6			
5/20/84	13:54	161.163		275.6	296.1	313.2	321.0	283.0	300.6		204.7		275.6	272.1	263.4		266.4			
5/21/84	0:00	161.583		293.1	306.7	322.8	334.0	283.9	311.1		212.6		284.4	279.2	273.9		271.7			
5/21/84	12:00	162.083		184.2	253.0	224.1	245.5	219.2	221.3		152.5		191.8	235.1	218.0		224.5			
5/22/84	0:00	162.583		324.3	320.6	324.5	331.4	296.2	318.0		212.6		300.9	295.9	276.4		285.5			
5/23/84	12:00	163.083		183.2	250.3	213.6	233.3	212.2	210.8		145.6		190.0	232.5	214.5		225.3			
5/23/84	0:00	163.583		328.4	324.7	319.0	325.9	292.6	315.1		206.4		304.9	301.0	271.8		268.6			
5/23/84	12:00	164.083		191.9	248.5	227.4	228.9	205.2	215.1		140.3		190.8	231.6	215.2		227.8			
5/20/84	0:00	164.583		343.3	329.2	328.7	334.7	302.2	325.7		209.9		317.2	308.9	277.1		296.6			
5/30/84	12:00	165.083		172.7	240.6	200.4	222.0	197.3	201.1		136.8		183.8	224.5	203.9		222.6			
5/31/84	0:00	165.583		330.9	323.8	325.9	332.7	300.2	322.8		210.6		314.3	306.0	273.4		282.8			
5/31/84	12:00	166.083		246.6	273.0	272.7	283.4	253.1	268.0		175.8		251.6	257.8	242.1		252.9			
6/1/84	0:00	166.583		322.3	317.7	328.5	335.3	302.0	323.7		212.3		309.2	303.4	276.0		292.0			
6/1/84	12:00	167.083		183.9	247.5	225.5	233.1	218.1	211.5				184.1	235.7	212.5		231.1			
6/2/84	0:00	167.583		324.8	316.8	329.3	338.8	301.9	325.4		210.5		311.7	300.7	276.9		291.1			

Table 5. Tensiometer Data

			Tensiometer Data																	
		Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
6/8/94	0:56	173.622		148.0	228.6	198.1	206.7	178.6	194.4				164.0	218.7	202.2		214.8			
6/8/94	0:57	173.623		148.0	228.6	198.1	205.8	178.6	191.8				164.0	217.9	202.2		214.8			
6/8/94	0:58	173.624		148.0	227.8	196.3	205.0	178.6	190.1				164.0	217.9	202.2		214.8			
6/8/94	0:59	173.624		147.1	227.8	195.4	205.0	178.6	189.2				163.1	218.7	201.4		214.8			
6/8/94	22:00	174.083		333.8	323.2	350.5	358.0	326.1	343.8				335.4	320.6	289.2		306.9			
6/8/94	0:00	174.583		148.0	221.6	206.7	216.1	189.1	201.3				171.7	217.8	206.5		217.3			
6/9/94	12:00	175.083		335.2	321.2	345.8	351.6	322.4	339.1				333.2	321.2	284.5		305.6			
6/10/94	0:00	175.583		142.7	218.0	202.2	204.8	178.5	196.5				163.8	213.4	208.0		213.7			
6/10/94	12:00	176.083		342.0	322.8	345.6	350.6	325.0	340.7				335.7	323.8	283.4		307.1			
6/11/94	0:00	176.583		150.5	223.2	203.9	213.4	187.2	198.8				175.9	217.8	206.3		217.9			
6/11/94	12:00	177.083		336.6	316.5	341.9	345.2	318.8	337.0				330.2	320.2	279.8		304.3			
6/12/94	0:00	177.583		150.4	217.1	192.6	209.9	182.0	189.0				172.4	216.0	215.7		216.2			
6/12/94	12:00	178.083		345.5	321.1	352.6	354.0	328.5	345.9				339.2	324.7	285.2		308.9			
6/13/94	0:00	178.583		147.8	215.3	209.9	208.1	182.0	204.5				167.1	213.3	204.4		212.7			
6/13/94	12:00	179.083		344.5	323.6	352.4	353.1	320.6	345.7				339.0	328.1	285.0		309.6			
6/14/94	0:00	179.583		172.1	232.7	231.6	235.7	213.4	229.6				193.1	231.7	214.8		225.6			
6/14/94	12:00	180.083		332.4	323.6	355.1	359.1	329.3	349.2				340.8	325.5	290.2		311.3			
6/15/94	0:00	180.583		144.4	217.1	216.9	216.0	192.5	201.1				172.4	216.0	207.1		213.6			
6/15/94	12:00	181.083		343.8	328.1	358.7	362.7	328.5	352.8				344.4	329.1	293.8		313.2			
6/16/94	0:00	181.583		141.8	222.4	225.6	222.9	193.3	216.7				177.6	218.6	214.9		211.9			
6/16/94	12:00	182.083		343.7	328.9	358.6	362.6	335.4	347.6				342.6	327.3	291.2		309.7			
6/17/94	0:00	182.583		169.4	240.5	253.1	245.0	216.7	240.6				206.0	231.6	230.2		222.9			
6/17/94	12:00	183.083		340.1	326.1	351.5	353.8	326.6	342.2				335.4	323.6	286.7		305.2			
6/18/94	0:00	183.583		153.6	224.0	217.7	234.8	198.5	207.9				193.1	215.0	211.3		216.9			
6/18/94	12:00	184.083		318.6	314.9	346.5	353.2	324.9	337.2				324.4	308.0	286.0		295.9			
6/19/94	0:00	184.583		149.6	227.5	213.4	215.0	187.2	199.3				167.2	215.9	225.2		207.5			
6/19/94	12:00	185.083		343.9	326.4	350.2	354.2	332.0	340.0				330.7	318.6	288.0		305.6			
6/20/94	0:00	185.583		209.4	257.3	268.2	260.0	241.3	244.5				221.1	244.9	229.8		249.2			
6/20/94	12:00	186.083		329.2	323.8	344.9	349.0	322.4	336.5				324.6	311.6	284.5		296.1			
6/21/94	0:00	186.583		193.1	261.9	252.9	269.7	227.5	236.9				231.8	248.6	226.6		249.5			
6/21/94	12:00	187.083		335.7	326.9	348.0	353.0	325.4	340.5				325.1	312.0	289.3		298.4			
6/22/94	0:00	187.583		142.9	239.4	211.4	207.8	182.8	200.1				161.8	216.5	196.6		215.3			
6/22/94	12:00	188.083		333.3	332.3	346.6	350.7	325.4	339.0				325.4	317.3	287.0		299.5			
6/23/94	0:00	188.583		163.0	247.3	230.5	224.3	204.0	219.0				178.5	230.3	217.4		230.8			
6/23/94	12:00	189.083		342.7	340.9	351.6	352.2	331.5	342.3				332.2	326.9	286.8		303.7			
6/24/94	0:00	189.583		148.1	241.0	207.8	207.8	192.7	192.0				167.6	224.2	208.0		226.3			
6/24/94	12:00	190.083		351.9	343.2	347.8	347.5	330.4	341.1				334.4	330.1	283.0		305.0			
6/25/94	0:00	190.583		145.4	233.0	190.2	192.9	179.5	175.4				154.4	215.2	213.5		221.7			

Table 5. Tensiometer Data

			Tensiometer Data																	
		Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
6/25/94	12:00	191.083		368.4	351.0	357.3	355.3	339.9	353.2				343.9	338.0	287.3		311.9			
6/26/94	0:00	191.583		154.9	233.8	204.1	201.5	187.2	193.5				166.5	218.6	206.5		225.9			
6/26/94	12:00	192.083		367.2	347.2	357.0	354.1	337.9	351.1				344.4	336.8	285.2		308.1			
6/27/94	0:00	192.583		171.3	239.0	226.6	214.3	199.4	217.6				177.7	227.3	225.4		231.9			
6/27/94	12:00	193.083		359.3	340.2	356.0	355.7	338.7	351.0				344.3	330.6	286.9		308.0			
6/28/94	0:00	193.583		171.4	238.2	223.2	226.5	207.2	217.7				194.3	229.0	227.2		235.4			
6/28/94	12:00	194.083		351.2	337.2	360.9	360.6	337.9	355.1				343.2	329.8	290.1		308.6			
6/29/94	0:00	194.583		148.1	225.3	206.8	206.0	187.1	197.1				166.7	216.7	222.3		222.7			
6/29/94	12:00	195.083		358.0	334.5	359.1	357.9	339.7	353.3				341.4	329.8	290.8		308.5			
6/30/94	0:00	195.583		143.7	221.7	203.2	203.2	186.3	193.5				157.9	215.8	216.0		221.7			
6/30/94	12:00	196.083		362.9	336.8	355.3	355.0	336.9	349.4				336.6	334.9	287.0		309.8			
7/1/94	0:00	196.583		166.1	229.4	222.2	218.1	199.3	212.4				173.4	226.3	215.0		229.3			
7/1/94	12:00	197.083		353.5	330.0	358.0	359.4	337.9	353.0				337.7	328.0	288.0		310.0			
7/2/94	0:00	197.583		152.3	223.4	217.1	210.1	192.4	204.7				165.6	218.5	222.9		223.3			
7/2/94	12:00	198.083		366.6	338.8	365.9	363.0	339.7	356.6				343.0	336.8	291.6		313.5			
7/3/94	0:00	198.583		167.9	230.4	231.0	223.0	202.8	221.2				176.9	225.5	217.7		226.5			
7/3/94	12:00	199.083		359.7	332.7	358.1	358.7	339.6	353.2				336.1	330.7	290.7		310.1			
7/4/94	0:00	199.583		156.7	226.1	222.4	215.3	195.0	207.4				164.0	221.1	217.0		224.3			
7/4/94	12:00	200.083		368.2	345.6	365.8	362.9	347.4	359.9				341.1	341.9	298.3		316.9			
7/5/94	0:00	200.583		165.4	232.3	233.8	228.4	208.1	224.9				168.5	225.5	225.8		231.4			
7/5/94	12:00	201.083		361.7	346.0	372.3	368.5	346.7	364.7				339.0	341.2	309.2		318.2			
7/6/94	0:00	201.583		144.7	225.3	223.4	218.1	196.7	215.4				137.3	218.5	229.2		222.8			
7/6/94	12:00	202.083		364.2	349.4	370.5	370.1	353.6	367.2				320.7	344.7	321.2		319.8			
7/20/94	0:00	215.583		354.3	367.3	380.4	358.4	345.5	433.1				157.4	342.6	445.4		304.5			
7/20/94	12:00	216.083		323.2	331.7	365.8	345.6	330.4	419.6				149.4	303.0	456.3		295.3			
7/21/94	0:00	216.583		381.4	374.6	391.1	383.0	354.3	443.0				160.2	349.8	457.9		313.5			
7/21/94	12:00	217.083		353.6	335.3	372.9	344.9	340.9	426.7				151.2	303.9	464.2		298.0			
7/22/94	0:00	217.583		410.3	374.9	400.2	369.4	360.7	452.1				162.2	345.7	467.9		316.5			
7/22/94	12:00	218.083		385.8	337.2	383.5	348.5	348.0	433.9				151.4	302.3	471.4		296.5			
7/23/94	0:00	218.583		436.9	374.7	408.6	367.5	365.0	454.4				156.9	347.3	471.1		311.1			
7/23/94	12:00	219.083		421.3	340.6	392.1	351.8	354.9	440.7				152.2	306.7	479.9		298.9			
7/24/94	0:00	219.583		454.3	370.5	425.2	371.9	375.5	464.9				158.7	337.8	481.6		311.2			
7/24/94	12:00	220.083		395.1	337.8	404.0	349.0	360.9	443.9				148.6	303.0	484.8		292.7			
7/25/94	0:00	220.583		420.5	383.5	441.6	378.1	393.7	474.3				155.2	353.4	485.7		317.1			
7/25/94	12:00	221.083		160.4	347.6	431.2	360.5	389.8	463.2				146.7	312.8	491.2		300.7			
7/26/94	0:00	221.583		288.1	386.3	459.9	381.3	420.8	485.6				151.7	355.3	491.0		317.2			
7/26/94	12:00	222.083			353.6	451.1	370.8	420.4	471.8				153.0	317.2	497.2		304.1			
7/27/94	0:00	222.583		283.9	378.3	476.3	388.2	448.7	496.0				151.7	347.4	494.4		312.9			

Table 5. Tensiometer Data

			Tensiometer Data																	
		Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f
7/27/94	12:00	223.083		129.2	361.5	480.7	392.4	461.4	499.6				157.4	325.1	505.9			309.3		
8/18/94	2:12	244.676			139.5	654.0	97.9	652.0	603.0				180.0	299.3	540.0			238.2		
8/18/94	2:14	244.676			140.3	656.0	98.8	653.0	604.7				160.0	300.2	539.9			239.0		
8/18/94	2:16	244.678			140.3	654.0	98.8	652.0	603.8				160.0	300.1	539.9			239.9		
8/18/94	2:18	244.679			142.9	655.0	97.9	652.0	603.8				160.8	300.1	539.9			239.9		
8/18/94	2:20	244.681			142.9	653.0	98.8	652.0	603.8				159.9	301.0	539.9			239.9		
8/18/94	2:22	244.682			142.9	655.0	98.7	651.0	603.8				160.8	301.9	539.9			241.6		
8/18/94	12:00	245.083			133.8	659.0	109.5	658.0	620.6				172.0	349.7	536.6			290.1		
8/19/94	0:00	245.583			133.8	658.0	112.1	656.0	607.4				171.1	282.9	540.9			228.8		
8/19/94	12:00	246.083			142.0	658.0	121.1	662.0	618.6				179.6	324.4	538.1			263.4		
8/20/94	0:00	246.583			140.1	655.0	120.0	651.0	601.1				173.1	253.2	540.6			198.1		
8/20/94	12:00	247.083			150.8	659.0	131.5	666.0	614.6				184.8	310.4	539.9			251.3		
8/21/94	0:00	247.583			141.9	652.0	127.9	660.0	590.4				177.7	248.1	541.2			195.8		
8/21/94	12:00	248.083			149.1	654.0	137.6	650.0	607.6				184.1	298.4	534.1			237.7		
8/22/94	0:00	248.583			145.4	647.0	134.0	661.0	582.6				177.7	242.9	536.0			188.0		
8/22/94	12:00	249.083			154.3	650.0	137.6	662.0	598.0				184.1	298.4	531.5			235.0		
8/23/94	0:00	249.583			148.9	646.0	138.3	664.0	572.1				181.1	239.4	534.1			184.5		
8/23/94	12:00	250.083			162.9	650.0	139.2	660.0	592.2				187.3	300.8	533.5			235.6		
8/24/94	0:00	250.583			154.9	648.0	141.6	665.0	569.1				184.4	238.4	532.0			182.5		
8/24/94	12:00	251.083			170.0	654.0	150.5	667.0	590.9				194.4	296.5	533.0			232.3		
8/25/94	0:00	251.583			159.3	646.0	147.6	666.0	557.0				185.3	235.8	529.5			177.4		
8/25/94	12:00	252.083			178.5	647.0	144.2	649.0	579.7				189.7	303.2	527.1			235.4		
8/26/94	0:00	252.583			162.7	642.0	144.1	667.0	547.1				184.2	240.0	523.9			178.9		
8/26/94	12:00	253.083			186.4	644.0	145.1	669.0	571.0				192.3	308.5	473.5			240.5		
8/27/94	0:00	253.583			173.2	640.0	145.9	666.0	533.5				187.0	253.3	522.5			189.4		
8/27/94	12:00	254.083			195.9	641.0	141.6	665.0	562.1				192.2	313.7	517.3			243.9		
8/28/94	0:00	254.583			172.2	636.8	142.3	667.0	520.1				187.7	256.7	516.0			191.0		
8/28/94	12:00	255.083			195.9	637.2	139.0	664.0	551.7				192.2	317.2	512.0			245.5		
8/29/94	0:00	255.583			173.0	631.4	137.9	667.0	508.7				186.7	254.6	510.6			189.1		
8/29/94	12:00	256.083			198.5	634.6	134.7	657.0	541.3				192.2	313.7	505.2			242.1		
8/30/94	0:00	256.583			157.8	612.4		627.6	494.9				155.6	163.2	385.1			80.2		
8/30/94	12:00	257.083			190.5	587.5	119.2	618.4	490.8				174.0	296.7	483.7			219.0		
8/16/94	1:01	273.626		192.2	272.3	337.9								100.8	253.3			257.2		
8/16/94	1:02	273.626		192.2	273.2	337.0								100.8	251.6			256.3		
8/16/94	1:03	273.627		191.4	272.3	334.4								102.6	250.7			256.3		
8/16/94	1:04	273.628		189.6	272.3	334.4								104.3	250.7			254.6		
8/16/94	1:05	273.628		189.6	272.3	333.5								104.3	250.7			254.5		
8/16/94	1:06	273.629		189.6	273.1	334.4								106.9	253.2			253.7		

Table 5. Tensiometer Data

		Tensiometer Data																			
		Test	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	Soil Moisture Tension (cm H ₂ O)	
Date	Time	Days ¹	C1 ^a	B1 ^a	A1 ^a	C2 ^b	B2 ^b	A2 ^b	C3 ^c	B3 ^c	A3 ^c	C4 ^d	B4 ^d	A4 ^d	C5 ^e	B5 ^e	A5 ^e	C6 ^f	B6 ^f	A6 ^f	
9/30/94	22:13	288.509		142.8	132.8	387.9	204.0								266.8			223.5			
9/30/94	22:14	288.510		141.9	132.8	387.9	204.9								266.8			223.5			
10/18/94	0:01	305.584		193.3	140.7	387.7		384.3					196.0		355.0			184.5			
10/18/94	0:02	305.585		193.3	140.7	387.7		382.5					195.1		355.0			184.5			
10/18/94	0:03	305.585		193.3	140.7	387.7		383.4					196.0		354.1			185.4			
11/14/94	0:11	332.591		301.2		450.9		532.8	438.7						383.1						
11/14/94	0:12	332.592		309.3		379.4		477.9	427.1						545.3						
11/14/94	0:13	332.592		250.3		385.6		477.9	398.2						348.6						
11/14/94	0:14	332.593		48.4		506.3		358.5	423.9						338.5						
¹ = Days for which data was taken. Includes days prior to flooding the IP test site.																					
a= clusters A, B, and C at 1 ft depth						b=clusters A, B, and C at 2 ft depth						c=clusters A, B, and C at 3 ft depth									
d=clusters A, B, and C at 4 ft depth						e=clusters A, B, and C at 5 ft depth						f=clusters A, B, and C at 6 ft depth									

6.0 Test Results

6.1 Neutron Moisture Meter Data

Figures 7 and 8 present the volumetric moisture content data measured at the center and southeast corner access tubes. These plots show the volumetric moisture content as a function of time for each 30 cm (1 ft) depth interval within the IP test plot. The abscissa, labeled "Experiment Days", represents the number of days that drainage has occurred. Hence, T_0 corresponds to 10:40 AM on December 16, 1993, the time that the pump was shut off and the drainage phase of the test was initiated.

Figures 7 and 8 clearly show that at time T_0 the entire vertical profile is at or near field saturation, with volumetric moisture contents in the 29 to 35 percent range, and an average of 31.5 percent in the center of the IP plot. Moisture contents decreased rapidly initially, once the drainage phase of the test was initiated. This rapid drainage is shown by steep negative slopes of the curves during the first few days of the IP test, and reflects the greater hydraulic conductivities at near-saturated conditions.

Drainage diminishes rapidly after the first few days as hydraulic conductivities significantly decrease with decreasing moisture contents. By the first 25 days of the test, the increased drainage rates have diminished to a relatively constant rate, as indicated by the relatively flat, negative slopes of the curves. By January 1995, the average volumetric moisture content in the center of the IP test plot was 18.3 percent, and was decreasing at an estimated one percent every 100 days.

Intuitively, one might expect a clear wetting trend with depth at a given point in time, as water drains from the upper layers of the IP plot through the lower layer. This trend is generally true. As shown in Figures 7 and 8, the upper layers of the plot are generally drier than the lower layers. However, the trend is not absolute, perhaps due to vertical and horizontal heterogeneities within the plot.

For example, the moisture contents at the 30 cm (1 ft) depth in the SE corner were greater than moisture contents at the 180 cm (6 ft) depth. This is most likely attributable to differences in soil hydraulic properties at the various depths. These differences became more apparent later, as the IP data were analyzed, and variations in soil textural properties and particle size distributions were evaluated.

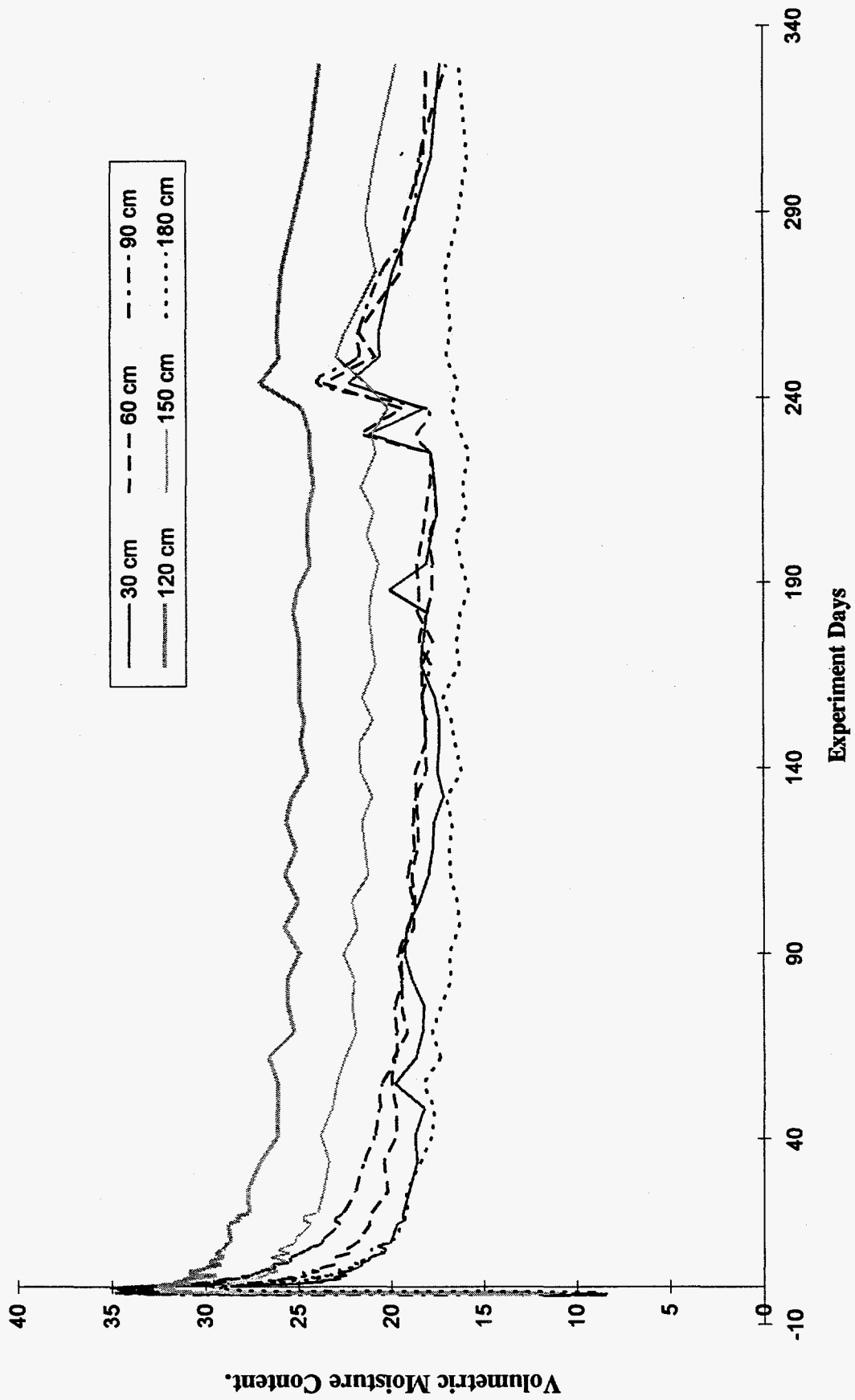


Figure 7. Neutron Moisture Meter Data, SE Access Tube.

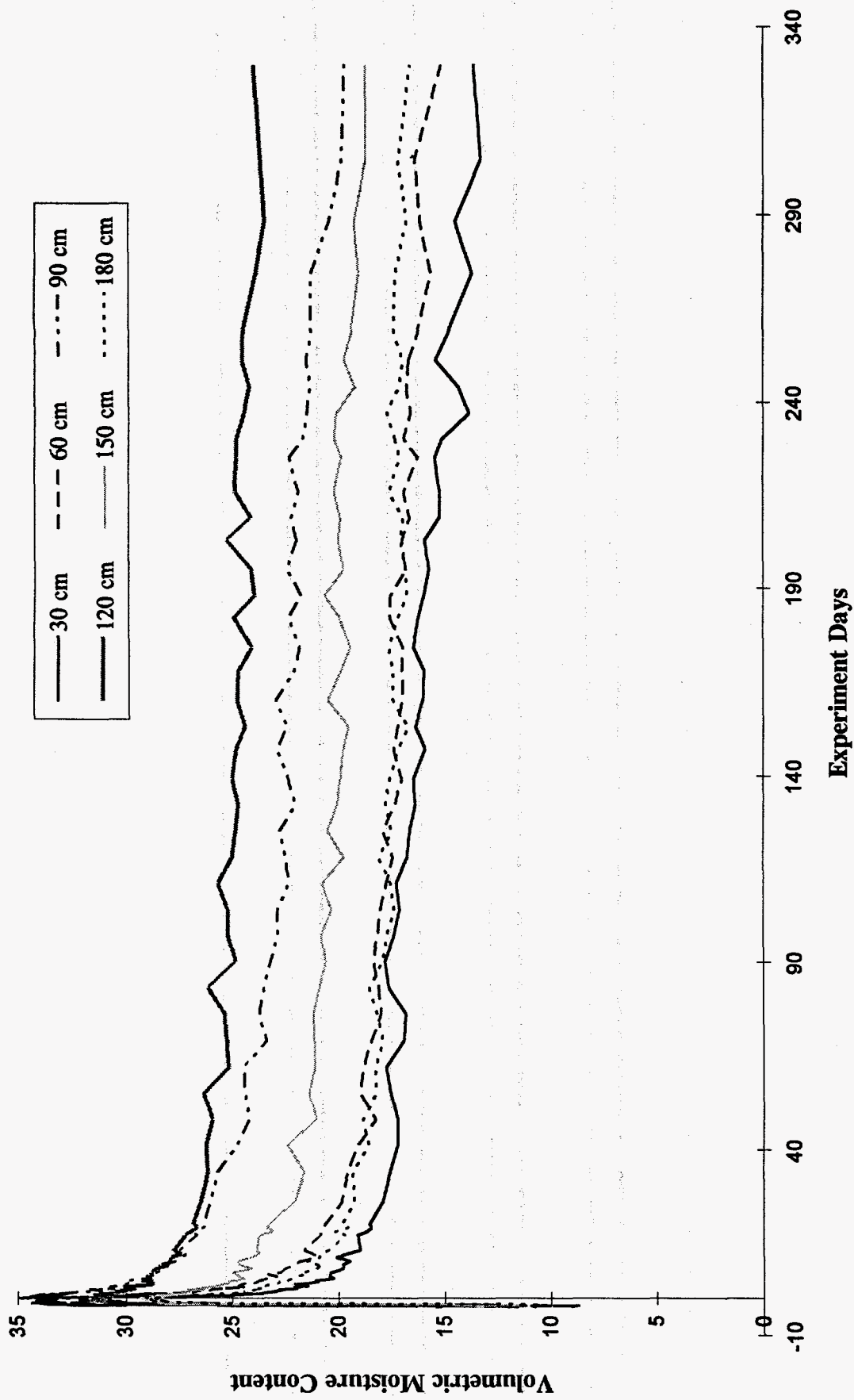


Figure 8. Neutron Moisture Meter Data, Center Access Tube.

6.2 Tensiometer Data

Figures 9 through 14 show the soil tension values at each 30 cm (1 ft) depth interval for each instrument cluster (A, B, and C) within the IP plot. The soil tensions at all of the depths (30 cm, 60 cm, etc.) increase rapidly during the first few days of the drainage test. The rapid initial increase in tensions corresponded directly to the initial decrease in moisture contents discussed above. As the test progressed, the rate of increase in soil tensions at each depth diminished due to the decreased drainage rate.

Figures 9 through 14 also show a significant increased variability of tension values with time, particularly after the first 30 to 50 days. This variability is believed to be due to diurnal temperature fluctuations in the test plot. The first several months of the test were conducted through mid-February, when temperatures in the Albuquerque area were the lowest. Increased variability in soil tensions seem to correspond with the higher temperatures of spring and summer.

Approximately 200 days into the IP test, the data measurement frequency for the tensiometers was decreased to weekly, and later to monthly intervals, as the rate of drainage decreased from the IP test plot. Unfortunately, the reduced amount of data limits its usefulness during the later stages of the test.

The tensiometers were also considered somewhat problematic, and some failed as the months progressed. Some tensiometers were replaced as they failed, but the number of operational tensiometers decreased considerably towards the end of the test.

Finally, it appears that some tensiometers in the IP test plot have reached the limits of their operational range. The operational range of the tensiometers at Albuquerque's elevation is limited from 0 cm to approximately 600 cm (236 in). Figures 10, 11, and 13 suggest that tensiometers at depths of 60, 90, and 150 cm (2, 3, and 5 ft) may have reached their operational limits (i.e. soil tensions at these depths may have exceeded 600 cm). Once tensions have exceeded this level, the readings provided by the tensiometers are erroneous, and other types of instrumentation (such as thermocouple psychrometers) must be used to measure soil tension. No thermocouple psychrometers were installed in the IP plot due to time and budget constraints.

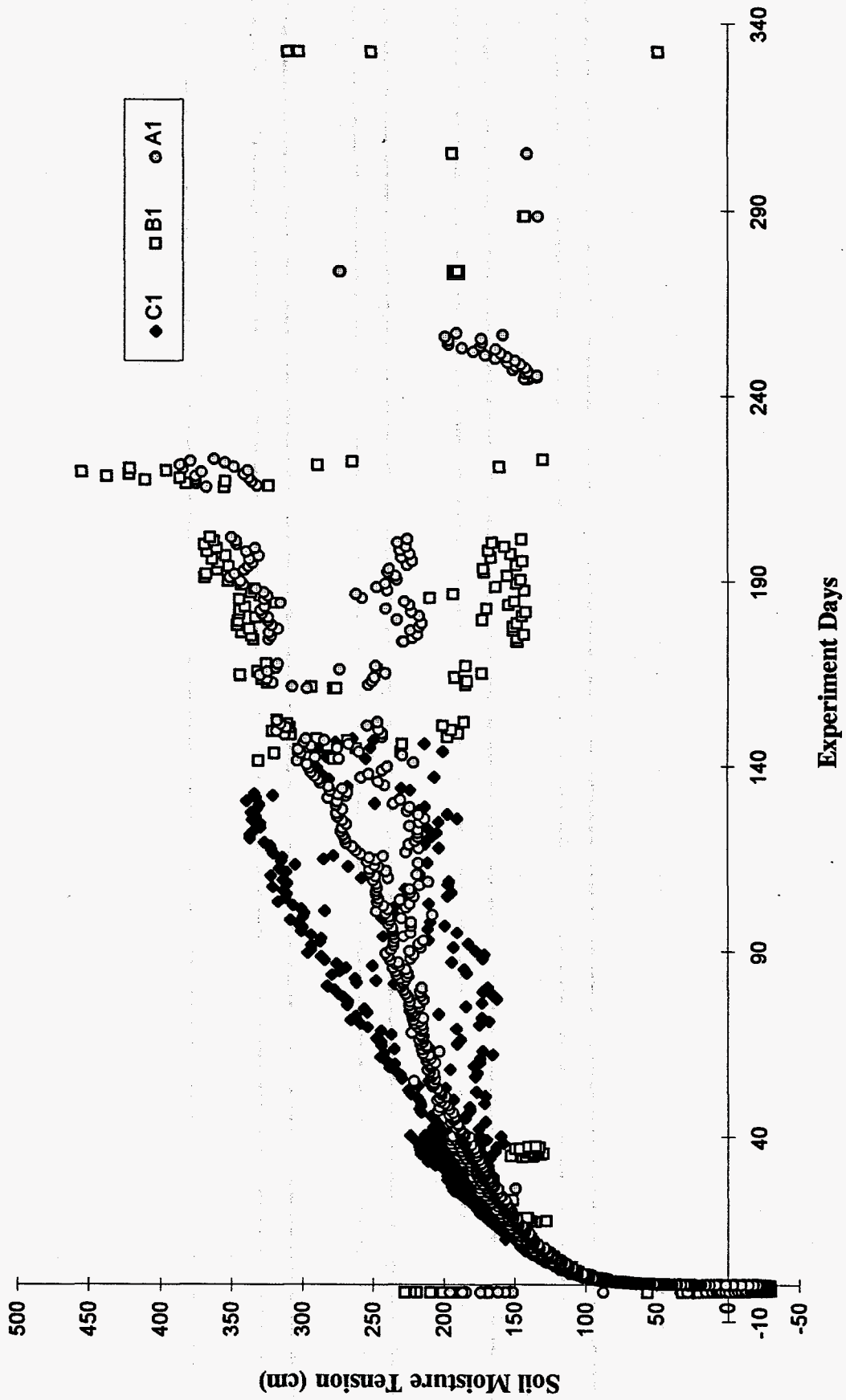


Figure 9. Soil Tension versus Time, 30 cm Depth.

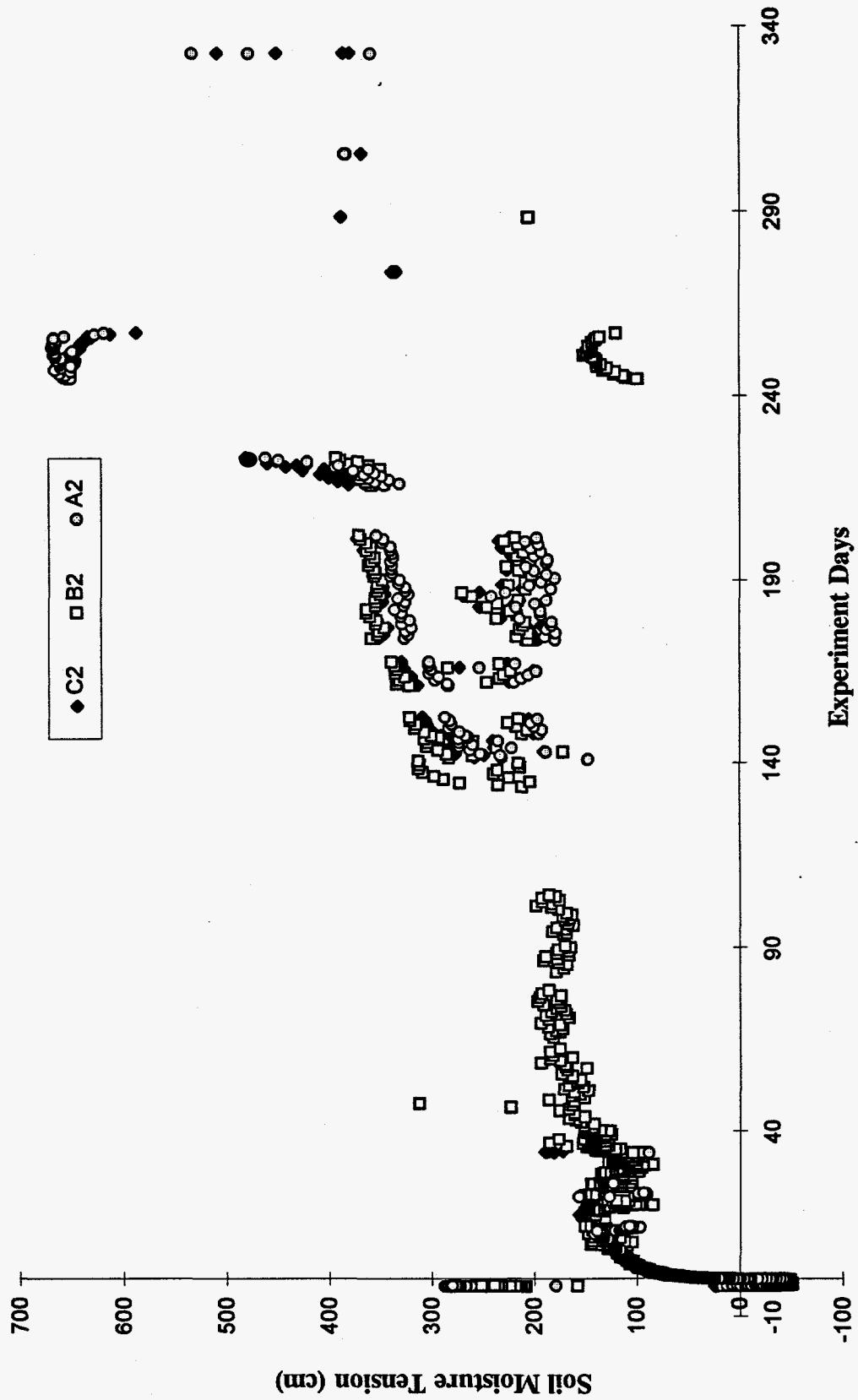


Figure 10. Soil Tension versus Time, 60 cm Depth.

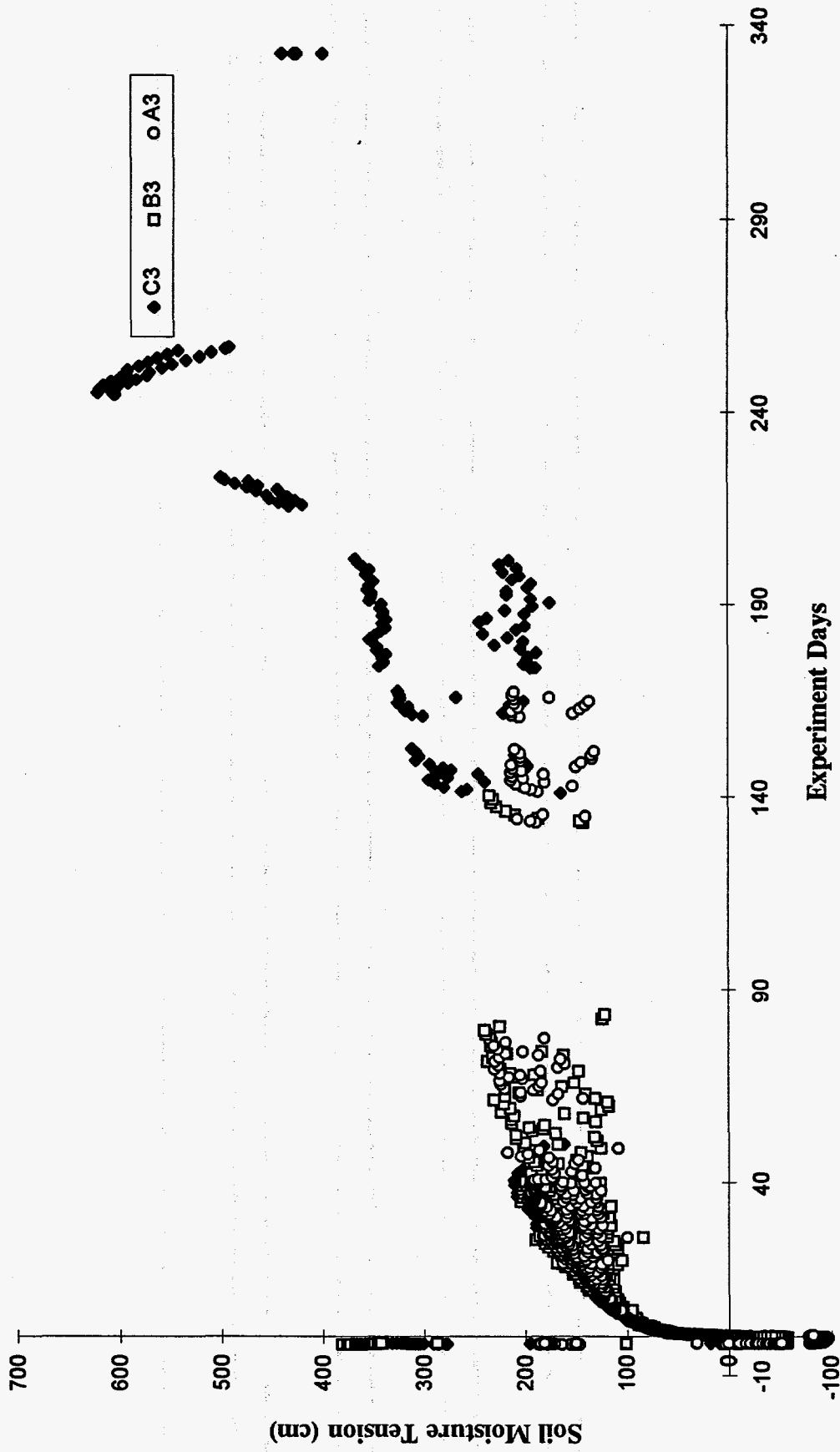


Figure 11. Soil Tension versus Time, 90 cm Depth.



Figure 12. Soil Tension versus Time, 120 cm Depth.

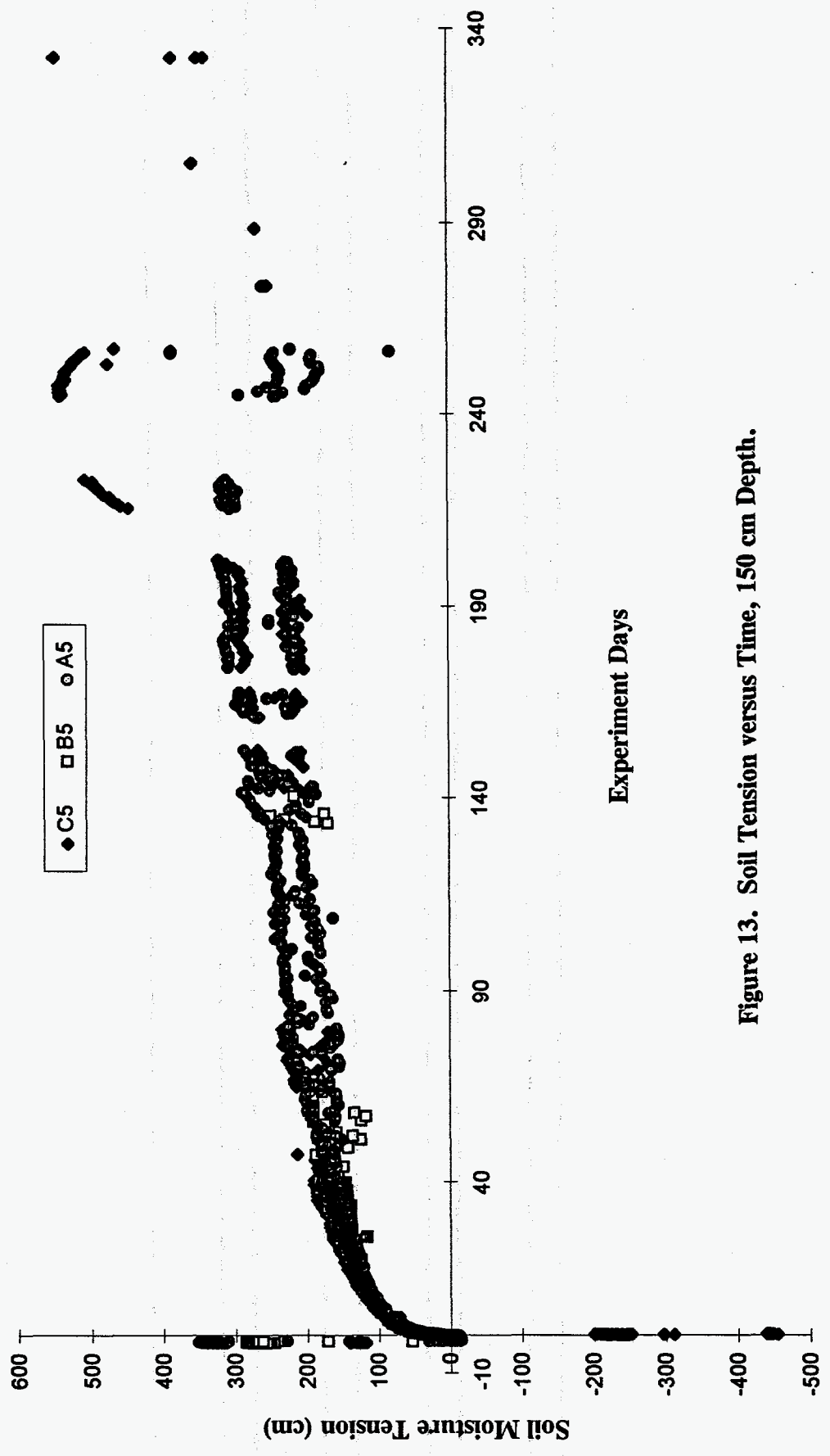


Figure 13. Soil Tension versus Time, 150 cm Depth.

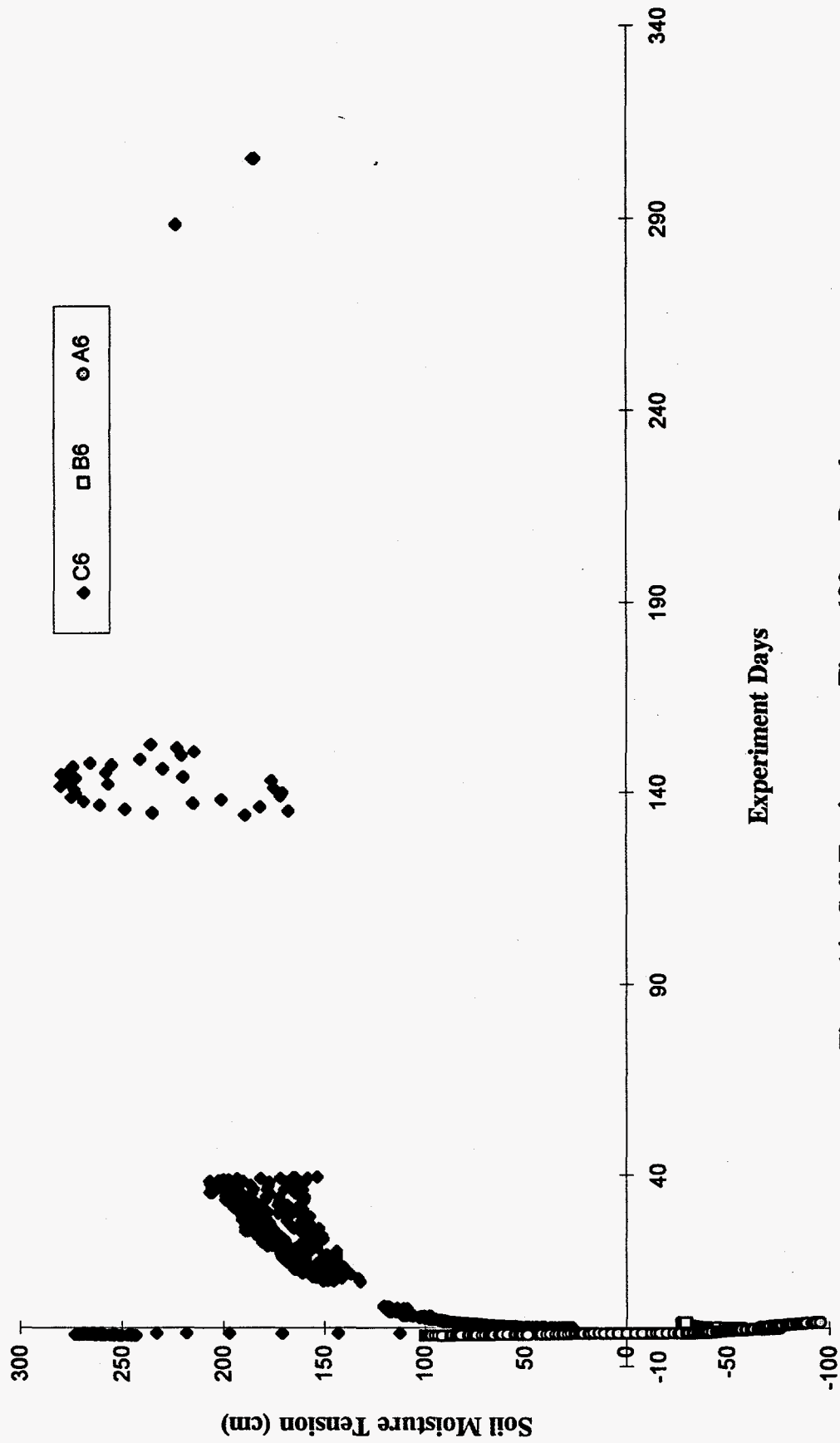


Figure 14. Soil Tension versus Time, 180 cm Depth.

7.0 Summary

The moisture content and soil tension data presented in this report will be used to determine the unsaturated hydraulic properties of soils near of moisture content, and the soil moisture characteristics (the relationship between the MWL, including *in situ* measurements of unsaturated hydraulic conductivity as a function volumetric water content and soil tension).

The IP test was conducted in the silty sands of the Madurez Loamy Fine Sand Series, approximately 150 m (500 ft) west of the MWL. The results of the MWL IP test clearly demonstrate the influence of heterogeneities within the soil profile. The effects of these heterogeneities were observed both vertically and horizontally in the test plot.

Drainage from the IP test site was initially high during the first few days of the test, but significantly decreased after the first few weeks of the test. The significantly decreased rate of drainage during the latter part of the test reflects the low unsaturated hydraulic conductivities of the soils.

Initial conditions in the soil profile of the IP plot (prior to flooding) averaged 11.4 percent water by volume in the center of the test plot. After 20,300 liters (5494 gal.) of water were applied to the plot, volumetric moisture contents in the center of the test plot averaged 31.5 percent. As of January, 1995, the volumetric moisture contents averaged 18.3 percent, and are decreasing at an approximate rate of one percent (volumetric) every 100 days. Hence, the present drainage is extremely slow.

The *in situ* data obtained from this test is superior to laboratory measurements because there has been no disturbance of soil structure due to invasive sampling. The unsaturated hydraulic parameters determined from this test will be used for modeling unsaturated flow and contaminant transport from the MWL, and for reducing uncertainties in the risk assessment for the MWL. This information will provide a better understanding of the potential for contaminant migration from the MWL to groundwater, and the resulting risk to human health and the environment. Finally, the data collected from the IP test will be used to help evaluate remedial alternatives for the MWL.

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