

Technical Report No. 283
A SUMMARY OF FOURTEEN SITE YEARS
OF BELOWGROUND HERBAGE BIOMASS DATA
PART III

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GRASSLAND BIOME
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ABSTRACT

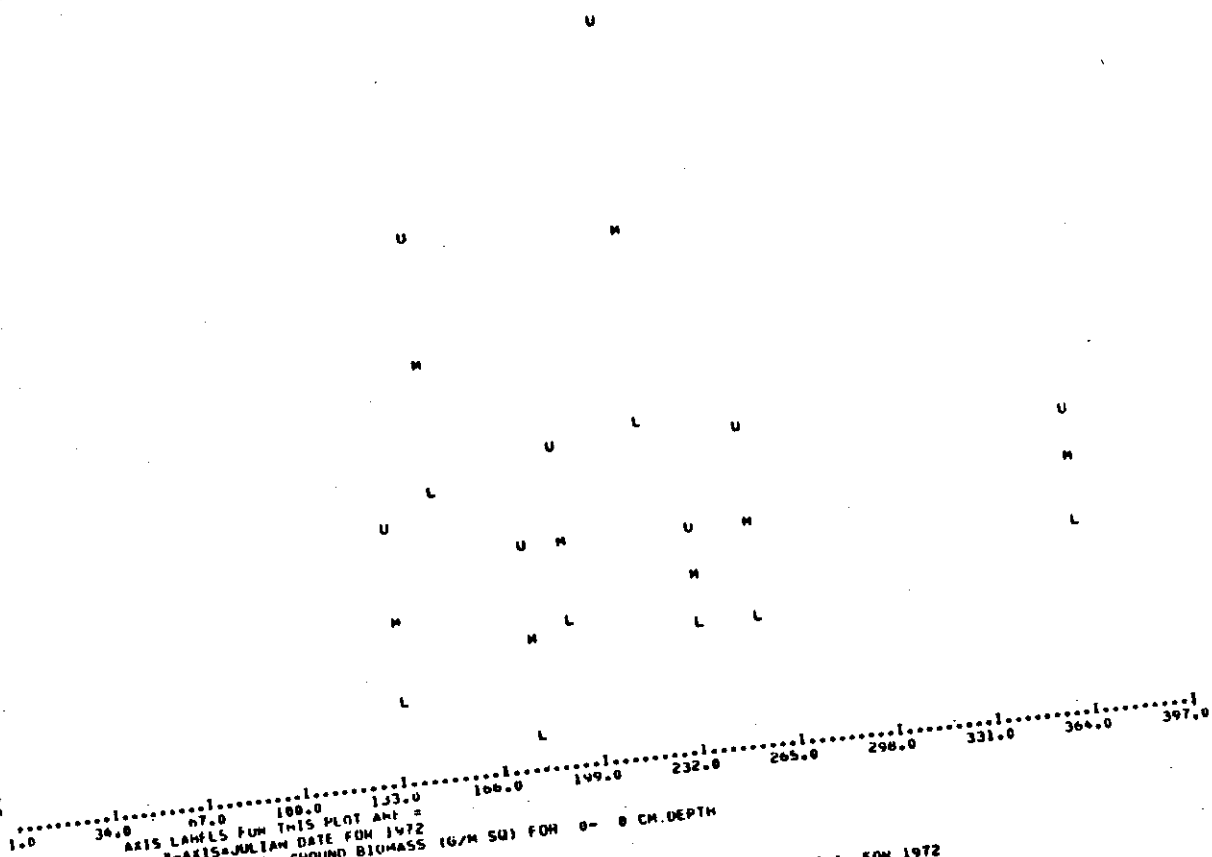
Fourteen site years of US/IBP Grassland Biome biomass data are screened, corrected, and described in a time series fashion by both graphical and statistical means. Impossible values, i.e., negative biomass, were corrected and missing or deleted data were inserted to complete the data sets. Analyses were done at the treatment level by sampling data with all root core data for all replicates for the treatment being pooled to obtain treatment means and variances.

7.3 Data for 1972

7.3.1 Treatments 1, 2, 4, and 5

The belowground herbage biomass sampling of the Pawnee Site in 1972 has been divided into five distinct data sets, each of which will be reported on separately. Sampling for treatments 1, 2, 4, and 5 was carried out five to seven times on each two replicates for the 1972 season. Two of the sampling dates for each treatment were to a depth of 60 cm while the other sampling dates went to 40 cm or less. The cores were separated into 10 cm segments. Crown material is reported as the 0 to 0 cm level. Crown material for treatments 2 and 4 were harvested from the root cores and are reported as ash-free weight. The crown material reported for treatments 1 and 5 was harvested from the aboveground herbage sampling plot and is therefore dry weight only. All root data were reported on an ash-free weight basis.

748.88
 738.43
 727.97
 711.51
 698.04
 686.68
 674.14
 661.64
 648.22
 636.77
 624.31
 611.84
 599.38
 586.91
 574.44
 562.07
 549.54
 537.18
 524.64
 512.18
 499.77
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 474.81
 462.35
 449.89
 437.44
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 412.52
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 375.14
 362.69
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 337.77
 325.31
 312.84
 300.40
 287.94
 275.48
 263.02
 250.56
 238.10
 225.64
 213.18
 200.74
 188.27
 175.81
 163.34
 150.88
 138.42
 125.98



1.0 34.0 67.0 100.0 133.0 166.0 199.0 232.0 265.0 298.0 331.0 364.0 397.0

AXIS LABELS FOR THIS PLOT ARE =
 X-Axis=JULIAN DATE FOR 1972
 Y-Axis=HELD GROUND BIOMASS (G/M SQ) FOR 0- 0 CM. DEPTH

THESE DATA INCLUDE CROWN MATERIAL.
 THESE DATA REPRESENT HFLOW-GROUND BIOMASS SAMPLING ON SITE (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL) PANNEE, TRT 1 FOR 1972

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
177	12	243.44	30.73	2.21	175.84	311.44
193	12	434.04	48.84	2.21	335.49	532.69
178	12	213.15	33.16	2.21	139.98	286.31
194	36	291.41	33.04	2.21	224.27	359.35
223	12	527.55	69.46	2.00	374.28	680.81
236	12	250.69	19.24	2.21	208.23	293.14
244	12	284.52	33.54	2.21	210.40	358.64
303	12	309.37	28.27	2.21	264.64	354.10

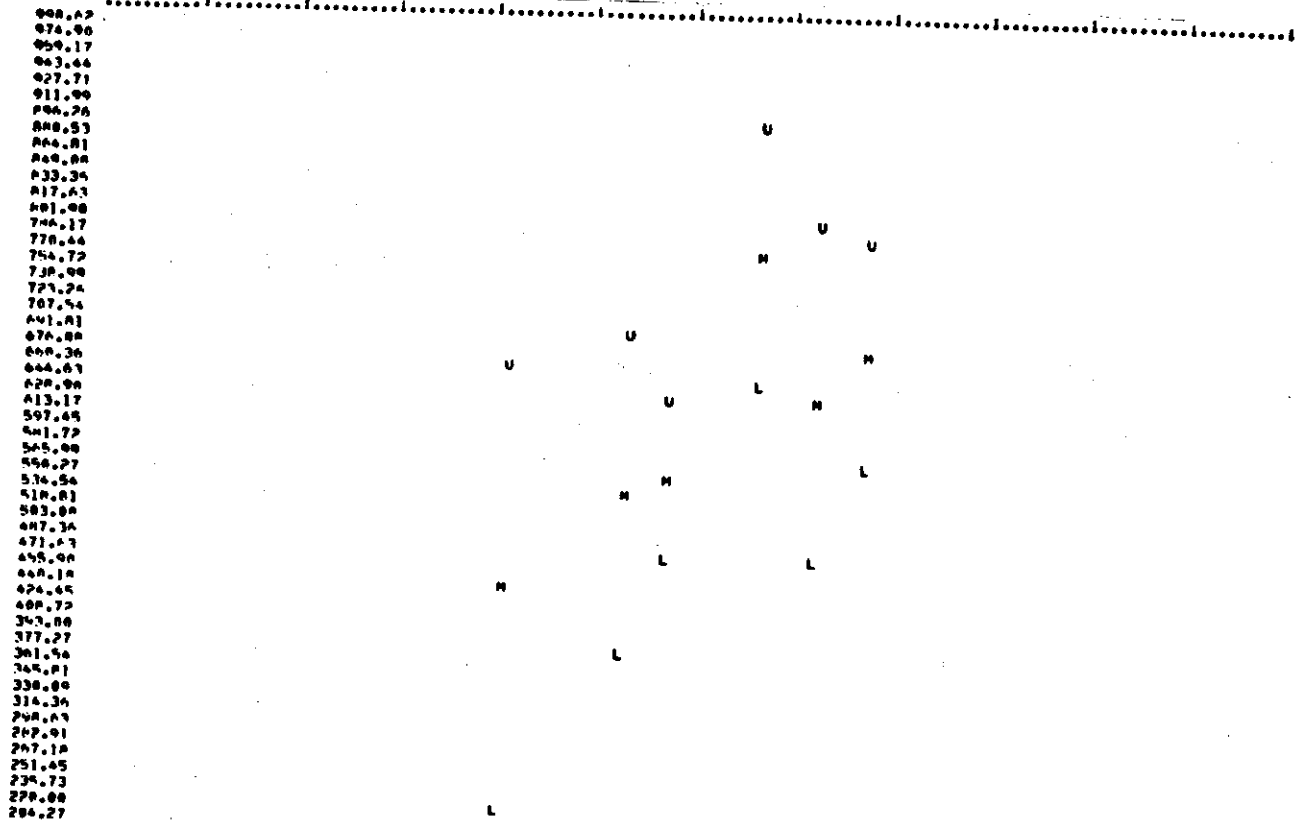
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 575.63
 563.35
 551.07
 538.79
 526.51
 514.23
 501.95
 489.67
 477.39
 465.11
 452.83
 440.55
 428.27
 416.00
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 379.16
 366.88
 354.60
 342.32
 330.04
 317.76
 305.48
 293.20
 280.92
 268.64
 256.36
 244.08
 231.80
 219.52
 207.24
 194.96
 182.68
 170.40
 158.12
 145.84
 133.56

1.0 30.0 60.0 90.0 120.0 150.0 180.0 210.0 240.0 270.0 300.0 330.0 360.0 390.0
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SU) FOR 0-10 CM DEPTH

THESE DATA INCLUDE MOIST MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRY 1 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SU)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
139	12	248.71	45.38			
179	6	385.37	70.31	2.21	148.58	348.83
196	36	591.88	42.20	2.57	204.65	566.88
223	12	576.78	46.50	2.00	467.08	636.52
241	12	442.66	49.59	2.21	474.00	679.55
258	12	445.53	40.78	2.21	333.24	552.09
					395.54	575.51



.....
 1.0 34.0 67.0 100.0 133.0 166.0 199.0 232.0 265.0 298.0 331.0 364.0 397.0
 AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0-30 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY
 THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAMMEL TRT 1 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
170	12	442.00	97.76			
170	6	532.21	61.27	2.21	226.97	658.36
194	36	551.00	42.26	2.57	374.74	689.69
223	12	776.25	56.34	2.00	467.00	636.52
241	12	632.38	75.33	2.21	461.94	900.57
240	12	676.52	52.97	2.21	466.16	794.59
				2.21	559.65	793.36

*Sequence includes root material down to only 10 cm.

1242.71
 1240.42
 1240.33
 1223.14
 1199.95
 1170.77
 1153.58
 1130.30
 1107.20
 1080.02
 1050.87
 1037.64
 1014.45
 991.27
 968.09
 944.90
 921.71
 898.51
 875.33
 852.14
 828.95
 805.76
 782.58
 759.39
 736.20
 713.01
 689.82
 666.64
 643.45
 620.26
 597.07
 573.89
 550.70
 527.51
 504.32
 481.14
 457.95
 434.76
 411.57
 388.38
 365.20
 342.01
 318.82
 295.63
 272.44
 249.25
 226.07
 202.88
 179.70
 156.51
 133.32

1.0 34.0 67.0 100.0 133.0 166.0 199.0 232.0 265.0 298.0 331.0 364.0 397.0
 AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=HLLD= GROUND BIOMASS (G/M SU) FOR D= 40 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT HFDW-GROUND BIOMASS SAMPLING ON SITE PANNEL THT 1 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SU)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
179	12	661.60	232.74			
179	8	567.82	89.57	2.21	148.13	1175.19
194	36	551.90	42.26	2.57	411.33	722.78
223	12	879.81	55.29	2.88	467.88	636.52
241	12	707.07	84.57	2.21	757.83	1001.79
258	12	742.72	56.10	2.21	528.48	893.67
				2.21	618.94	866.51

*Sequence includes root material down to only 10 cm.

211.04
 227.61
 223.87
 218.87
 218.58
 218.17
 209.75
 201.38
 197.81
 192.84
 188.27
 183.29
 179.15
 174.74
 170.74
 166.41
 162.84
 157.47
 153.38
 148.82
 144.45
 140.34
 136.41
 131.64
 127.87
 122.60
 118.32
 113.96
 109.49
 105.21
 100.84
 96.46
 92.08
 87.72
 83.36
 78.98
 74.61
 70.24
 65.86
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 35.26
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 26.52
 22.15
 17.78
 13.40

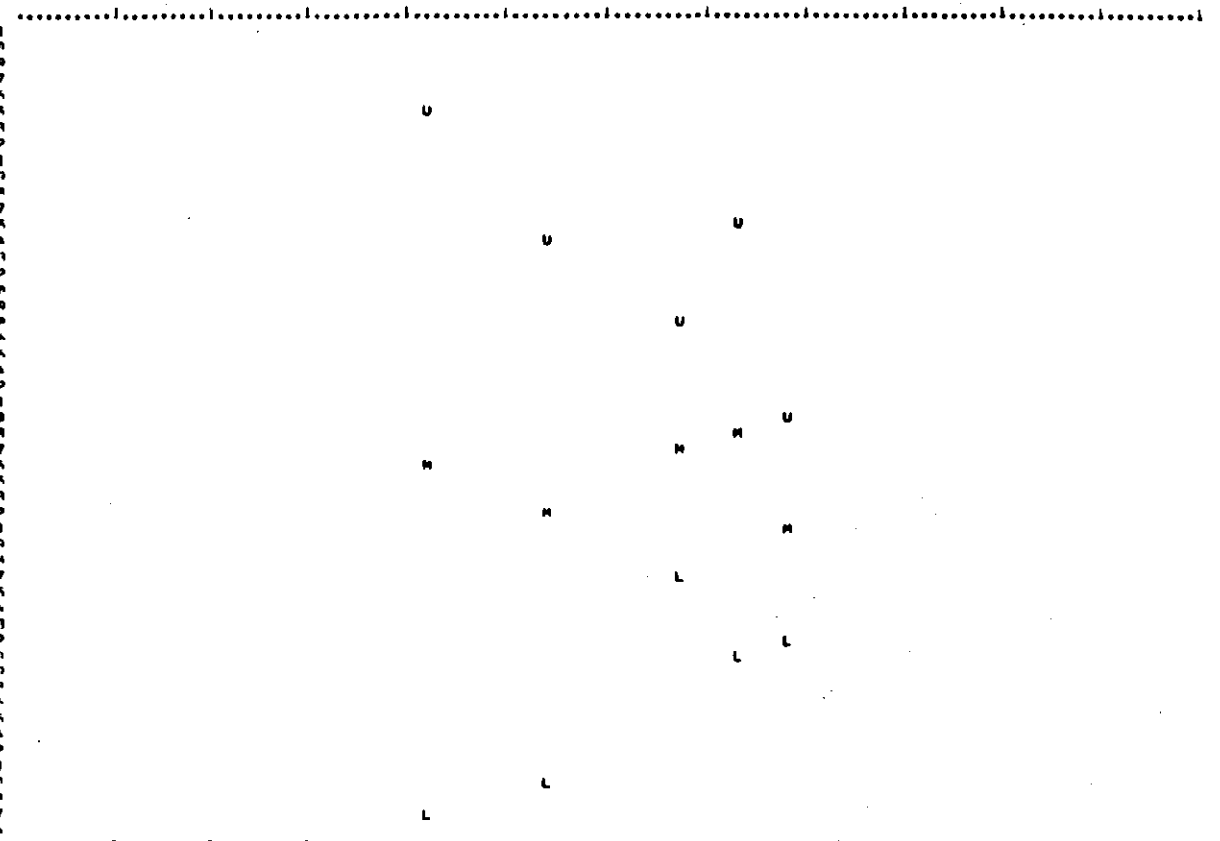
1.0 34.8 47.0 100.0 133.0 166.0 199.0 232.0 265.0 298.0 331.0 364.0 397.0

X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M²) FOR 10-20 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY
 THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M ²)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
130	12	112.49	44.42	2.21	14.89	210.89
170	6	73.85	13.33	2.57	34.59	108.11
223	12	115.44	14.82	2.21	84.50	146.38
241	12	103.50	18.02	2.41	63.80	143.32
248	12	120.11	16.64	2.21	83.29	156.93

157.01
154.00
151.00
148.17
144.36
141.55
138.73
137.02
134.11
132.20
129.48
126.67
123.86
121.04
118.23
115.42
112.60
109.79
106.98
104.16
101.35
98.54
95.72
92.91
90.10
87.28
84.47
81.66
78.84
76.03
73.22
70.41
67.60
64.78
61.97
59.15
56.34
53.53
50.72
47.90
45.09
42.27
39.46
36.65
33.84
31.03
28.21
25.40
22.58
19.77
16.96

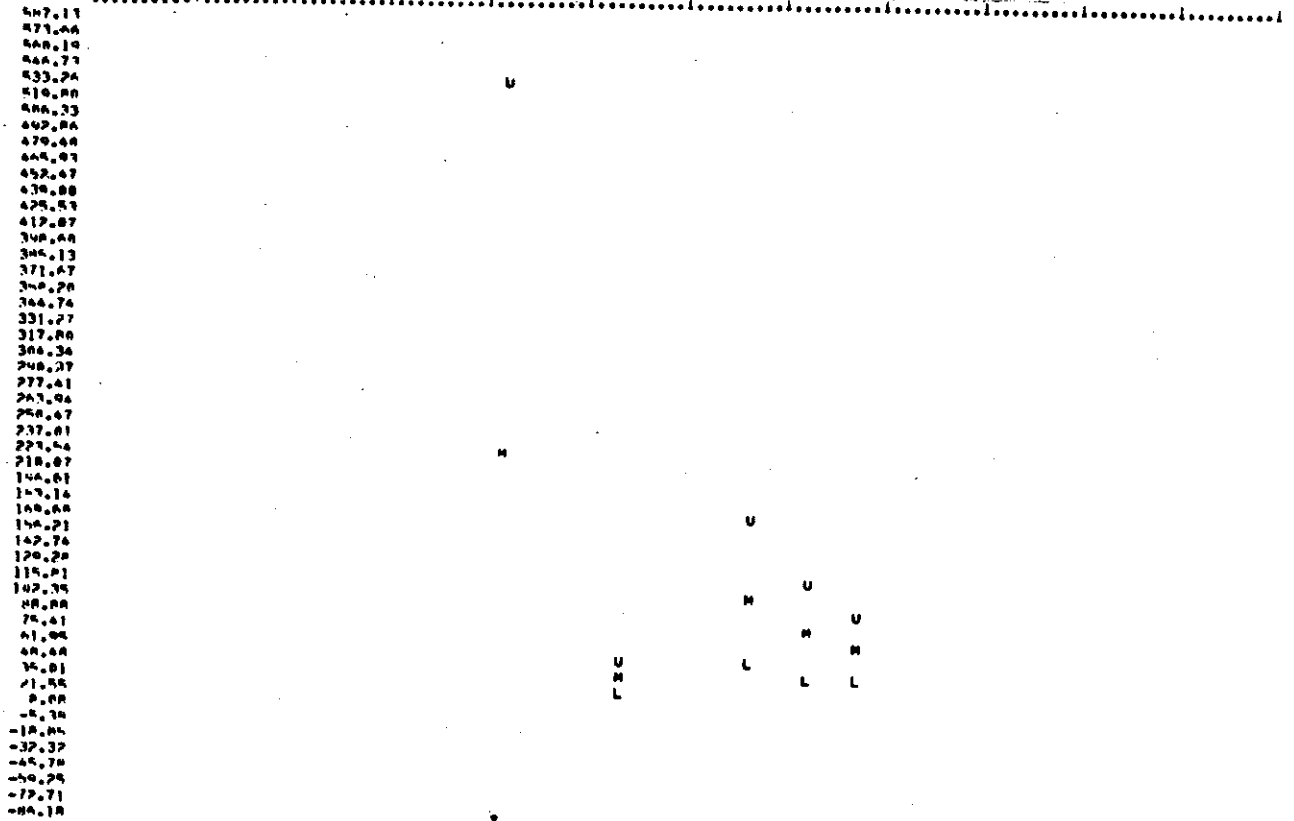


1.0 74.0 147.0 220.0 293.0 366.0 439.0 512.0 585.0 658.0 731.0 804.0 877.0
 AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=MELOE GROUND BIOMASS (G/M SQ) FOR 20-30 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT MELOE-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRT 1 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEL VALUE	LOWER LIMIT	UPPER LIMIT
139	12	41.06	20.20	2.21	18.04	143.20
179	6	73.00	14.63	2.57	25.12	120.88
223	12	46.03	10.34	2.21	61.12	106.95
241	12	46.16	10.74	2.21	49.21	123.10
254	12	70.44	8.51	2.21	52.89	89.06



1.0 10.0 20.0 30.0 40.0 50.0 60.0 70.0 80.0 90.0 100.0 110.0 120.0 130.0 140.0 150.0 160.0 170.0 180.0 190.0 200.0 210.0 220.0 230.0 240.0 250.0 260.0 270.0 280.0 290.0 300.0 310.0 320.0 330.0 340.0 350.0 360.0 370.0 380.0 390.0 397.0

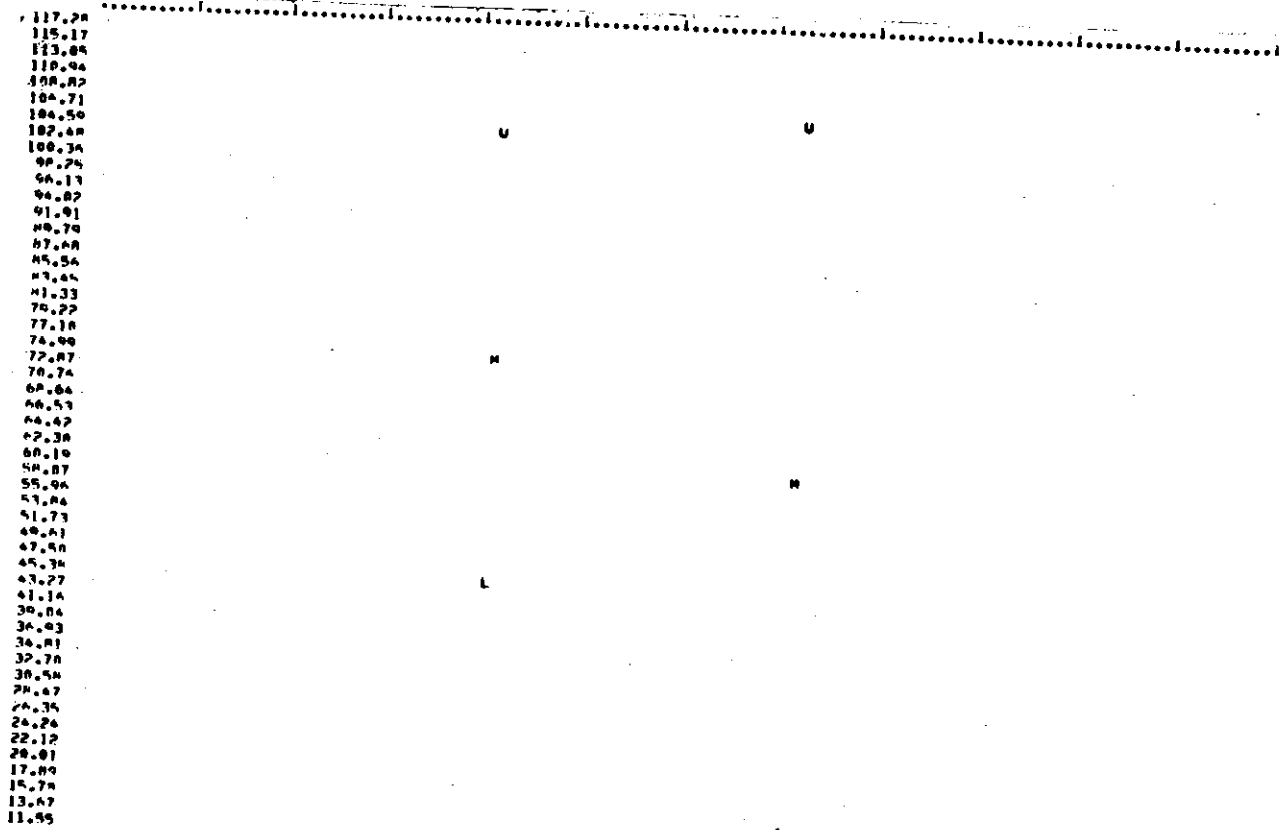
ARIS LABELS FOR THIS PLOT ARE =
 X=ORIS=JULIAN DATE FOR 1972
 Y=ORIS=MEAN (ROUND) BIOMASS (G/M SQ) FOR 30-40 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT INFLU-INBOUND BIOMASS SAMPLING ON SITE PANNEL, TRT 1 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
139	12	219.88	142.06	2.21	86.18	353.75
170	6	34.89	6.58	2.57	18.18	51.58
223	12	193.56	27.64	2.21	42.46	164.66
241	12	74.78	16.98	2.21	37.24	112.15
244	12	66.21	11.81	2.21	48.15	92.27

Note: Asterisks appearing in graph indicate a lower confidence limit which has a negative value.



1.0 34.0 67.0 100.0 133.0 166.0 199.0 232.0 265.0 298.0 331.0 364.0 397.0
 AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=MELON GROUND BIOMASS (G/M SO) FOR 40-50 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT MELON-GROUND BIOMASS SAMPLING ON SITE PAWNEE, TRT 1 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEL VALUE	LOWER LIMIT	UPPER LIMIT
139	12	75.12	13.48	2.21	45.39	104.86
241	11	59.73	28.97	2.24	12.83	106.62

725.70
 722.40
 700.51
 698.62
 677.73
 670.84
 657.94
 645.07
 632.18
 610.29
 600.40
 597.52
 580.63
 567.74
 554.85
 541.96
 529.07
 516.10
 503.20
 490.31
 477.42
 464.53
 451.64
 438.74
 425.85
 412.96
 400.07
 387.18
 374.29
 361.40
 348.51
 335.62
 322.73
 309.84
 296.95
 284.06
 271.17
 258.28
 245.39
 232.50
 219.61
 206.72
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 180.94
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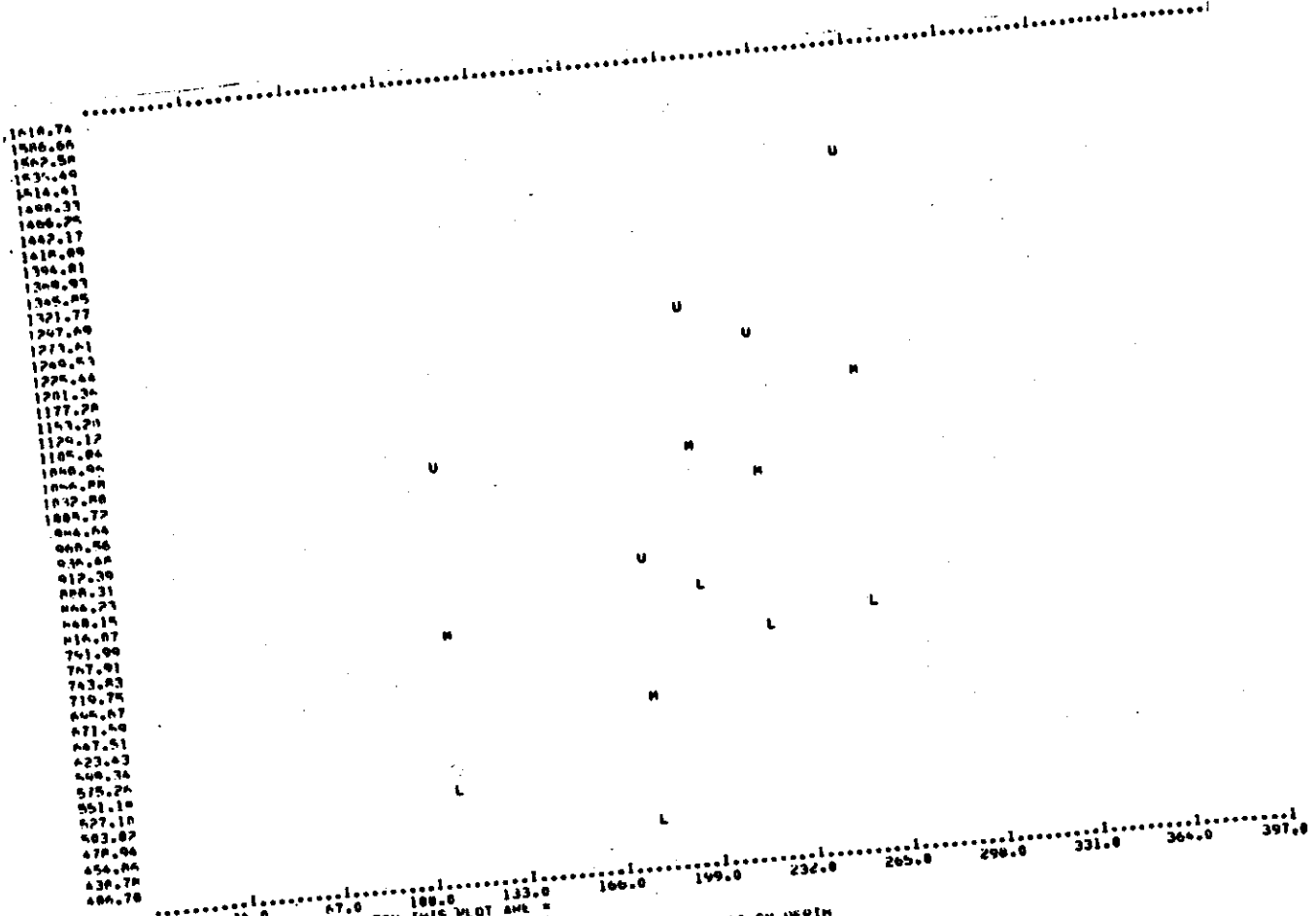
1.0 34.0 47.0 100.0 133.0 166.0 199.0 232.0 265.0 298.0 331.0 364.0 397.0

AXIS LABELS FOR THIS PLOT ARE -
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M²) FOR 0- 0 CM DEPTH

THESE DATA INCLUDE CHOWN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNING, TRT 2 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M ²)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
109	12	237.67	61.90	2.21	100.97	374.37
179	12	294.22	57.40	2.21	127.57	380.88
200	12	368.82	50.93	2.21	256.45	481.18
221	12	341.85	47.85	2.21	236.88	447.22
244	12	406.59	118.00	2.21	144.73	668.44



1.0 34.0 67.0 100.0 133.0 166.0 199.0 232.0 265.0 298.0 331.0 364.0 397.0

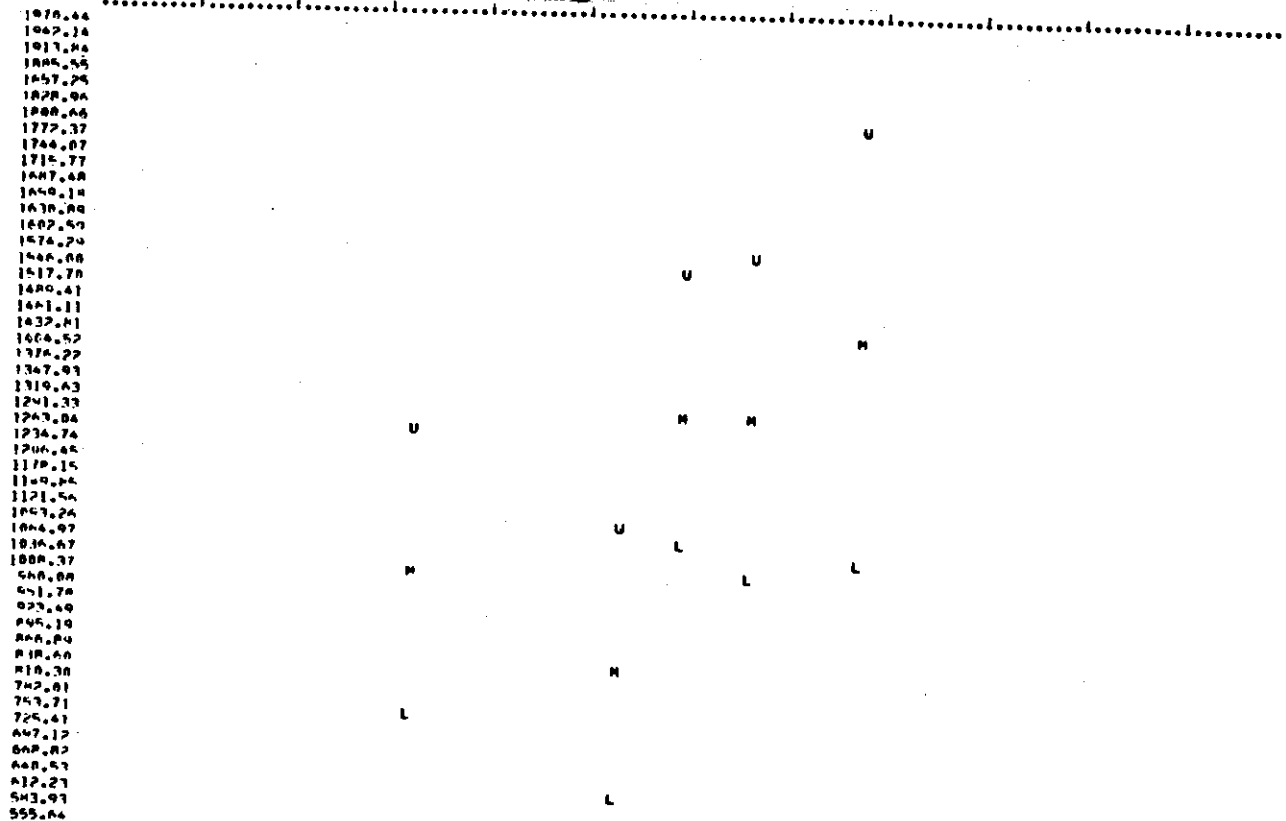
Y-AXIS=MLD GROUND BIOMASS (G/M 50) FOR 0-10 CM DEPTH

X-AXIS=JULIAN DATE FOR 1972

THESE DATA INCLUDE CHOWN MATERIAL

THESE DATA REPRESENT HELIX-GROUND BIOMASS SAMPLING ON SITE PAWNEE TRT 2 FOR 1972
(CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M 50)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
104	12	770.68	111.94	2.21	529.70	1023.05
170	12	454.45	91.81	2.21	451.09	857.00
200	12	1039.39	98.52	2.21	822.01	1250.70
223	12	981.67	104.30	2.21	751.53	1211.00
244	12	1121.30	155.46	2.21	778.29	1464.31

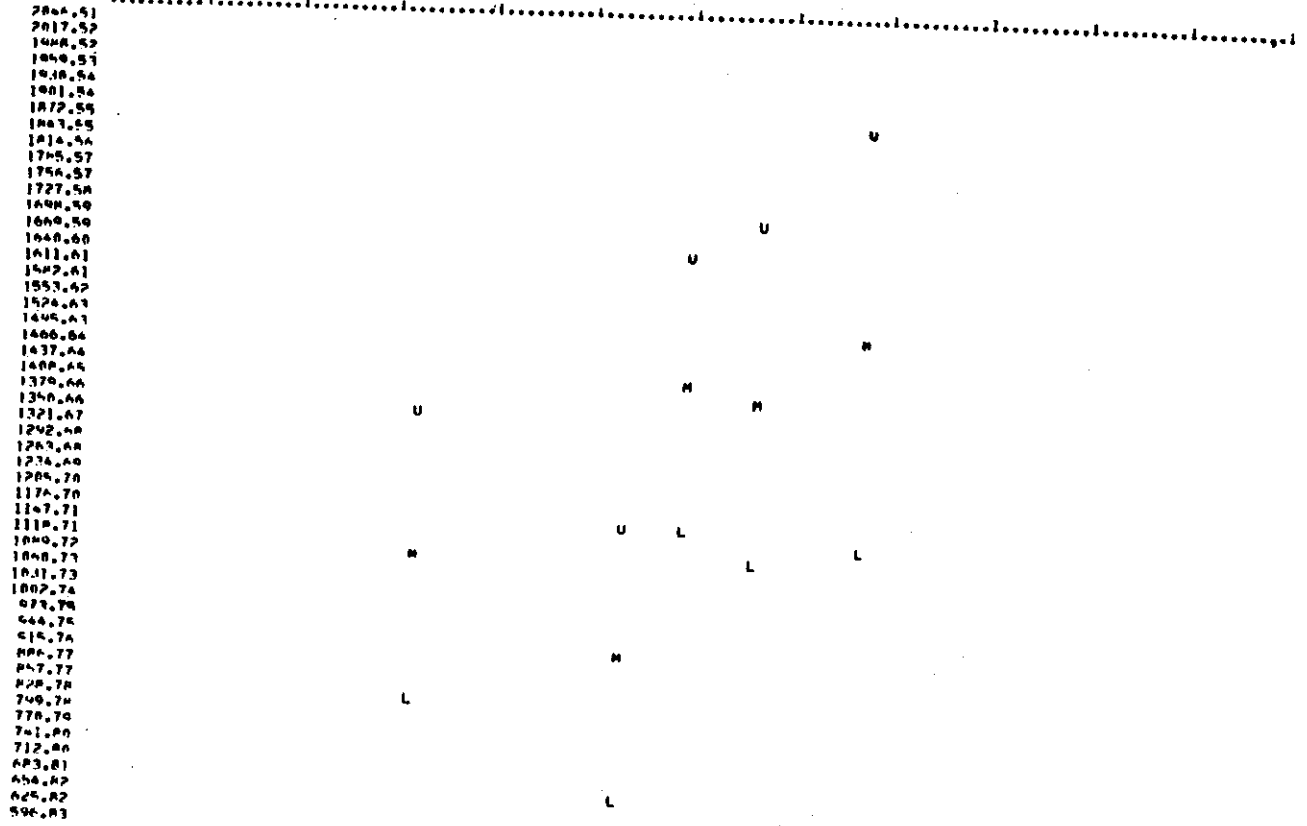


AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW-GROUND BIOMASS (G/M²) FOR 0-30 CM DEPTH

THESE DATA INCLUDE CROWN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRY 2 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M ²)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
189	12	1019.87	116.32			
170	12	850.52	105.07	2.21	763.23	1276.58
208	12	1304.65	109.47	2.21	1177.38	1083.67
223	12	1288.94	130.07	2.21	1063.11	1546.19
258	12	1420.94	107.06	2.21	1001.95	1575.93
				2.21	1050.57	1791.31



1.0 36.0 67.0 100.0 133.0 166.0 199.0 232.0 265.0 298.0 331.0 364.0 397.0
 AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M²) FOR 0-40 CM DEPTH

THESE DATA INCLUDE CHUM MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAMBLE, TRT 2 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M ²)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
100	12	1091.17	115.29	2.21		
179	12	982.73	108.59	2.21	836.80	1345.54
200	12	1397.54	188.70	2.21	663.14	1192.31
223	12	1343.77	137.82	2.21	1157.76	1637.42
254	12	1445.45	169.97	2.21	1089.68	1697.87
				2.21	1110.43	1860.46

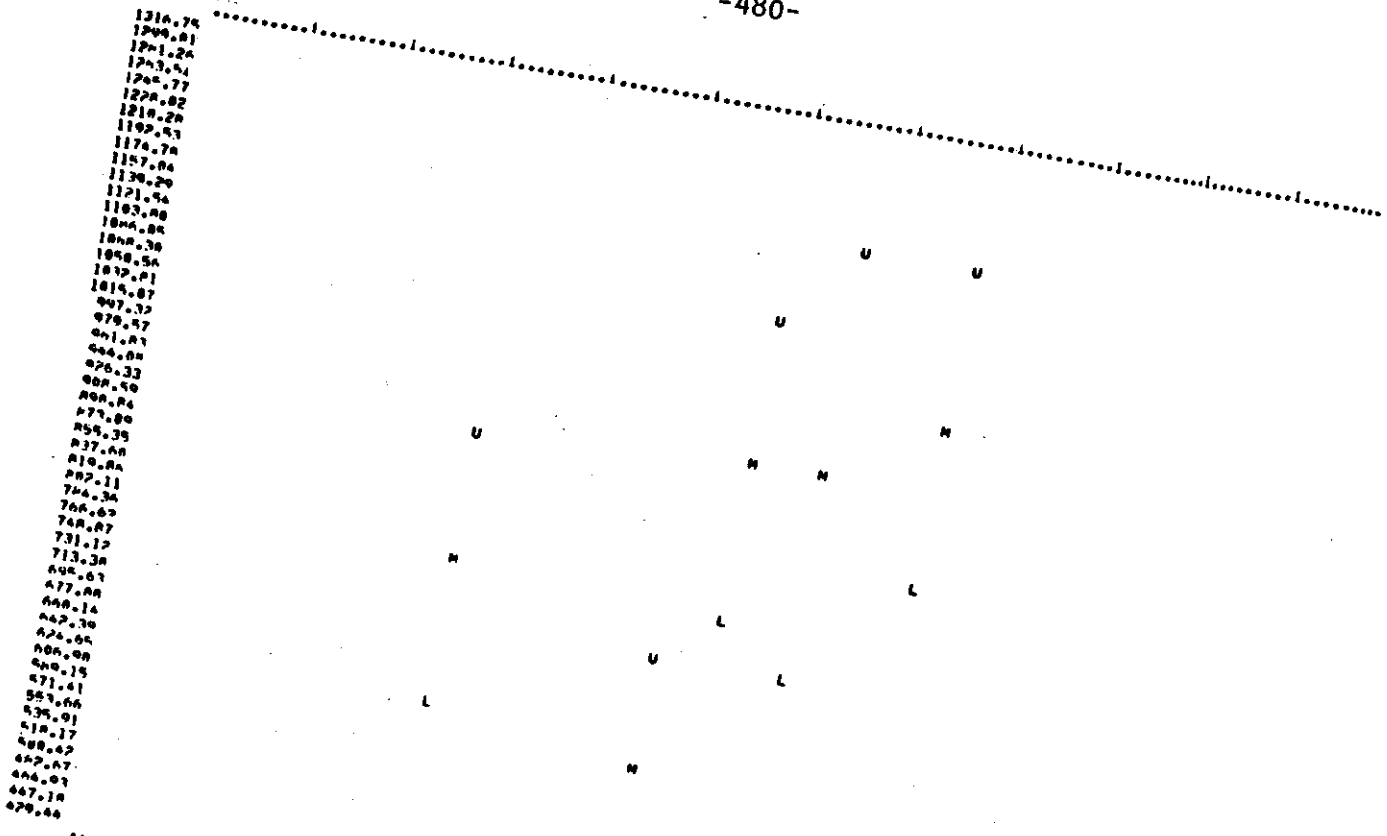
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 370.07
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 352.51
 330.24
 324.04
 317.00
 298.41
 284.17
 272.04
 250.54
 244.30
 233.02
 219.74
 208.47
 197.10
 179.91
 166.04
 153.30
 140.00
 126.01
 113.53
 100.24
 88.98
 77.70
 66.42
 54.15
 43.07
 32.50
 21.32
 10.04
 0.74
 0.49
 0.21
 0.07
 0.04
 0.34
 0.10
 0.02
 0.55
 0.27
 0.00
 0.72
 0.44
 0.14
 0.09
 0.01

.....
 1.0 34.0 67.0 100.0 133.0 166.0 199.0 232.0 265.0 298.0 331.0 364.0 397.0
 AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=HELLO GROUND BIOMASS (G/M SQ) FOR 0-10 CM DEPTH

THESE DATA INCLUDE HOOT MATERIAL ONLY

THESE DATA REPRESENT HELLO-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRT 2 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
100	12	539.01	63.29			
179	12	400.22	39.50	2.21	399.37	678.64
200	12	670.47	67.59	2.21	312.90	487.54
223	12	640.02	70.40	2.21	521.45	819.70
250	12	714.71	65.02	2.21	467.04	812.99
				2.21	569.92	859.50



1216.74
1204.01
1201.24
1203.54
1202.77
1220.02
1210.20
1192.53
1174.70
1157.04
1130.20
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1014.07
997.32
979.57
961.81
944.04
926.32
908.50
890.84
873.00
855.35
837.60
819.84
802.11
784.34
766.62
748.87
731.12
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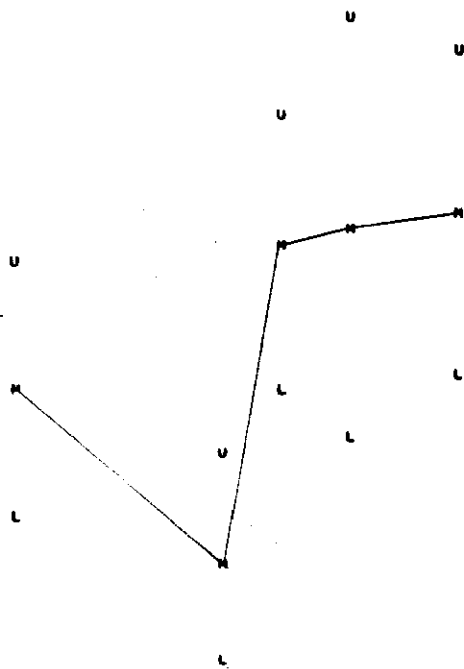
1.0 34.0 67.0 100.0 133.0 166.0 199.0 232.0 265.0 298.0 331.0 364.0 397.0
 AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0-30 CM DEPTH
 THESE DATA INCLUDE MOOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
100	12	772.19	68.22	2.21	631.68	912.71
170	12	546.30	54.80	2.21	477.15	715.45
200	12	935.83	74.73	2.21	770.94	1100.72
223	12	947.24	108.27	2.21	708.41	1186.17
250	12	1014.35	82.81	2.21	831.65	1197.05

PAWNEE TRT 2 FOR 1972

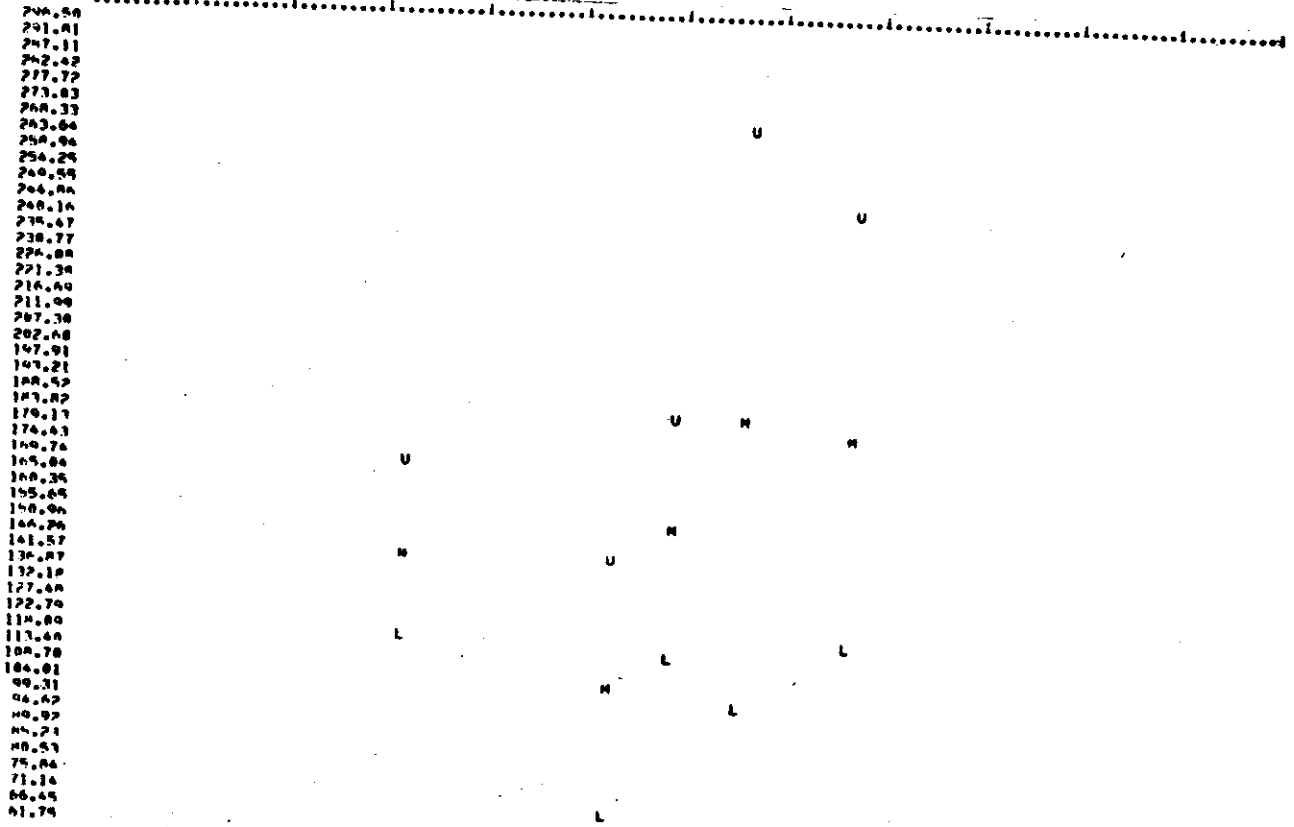
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 1224.86
 1205.50
 1186.15
 1166.79
 1147.44
 1128.08
 1108.73
 1089.37
 1070.02
 1050.66
 1031.31
 1011.95
 992.60
 973.24
 953.89
 934.53
 915.18
 895.82
 876.47
 857.11
 837.74
 818.38
 799.02
 779.66
 760.31
 740.95
 721.59
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 682.87
 663.51
 644.15
 624.79
 605.43
 586.07
 566.71
 547.35
 527.99
 508.63
 489.27
 470.01



1.0 34.0 67.0 100.0 133.0 166.0 199.0 232.0 265.0 298.0 331.0 364.0 397.0
 AXIS LABELS FOR THIS PLOT ARE *
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M²) FOR 0-40 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY
 THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE MAWME, TRT 2 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M ² SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
100	12	853.50	67.83	2.21	703.63	1003.16
170	12	648.50	97.23	2.21	522.24	774.77
200	12	1028.78	73.50	2.21	866.60	1190.95
223	12	1052.12	115.50	2.21	797.19	1307.05
258	12	1078.06	87.80	2.21	884.95	1272.77

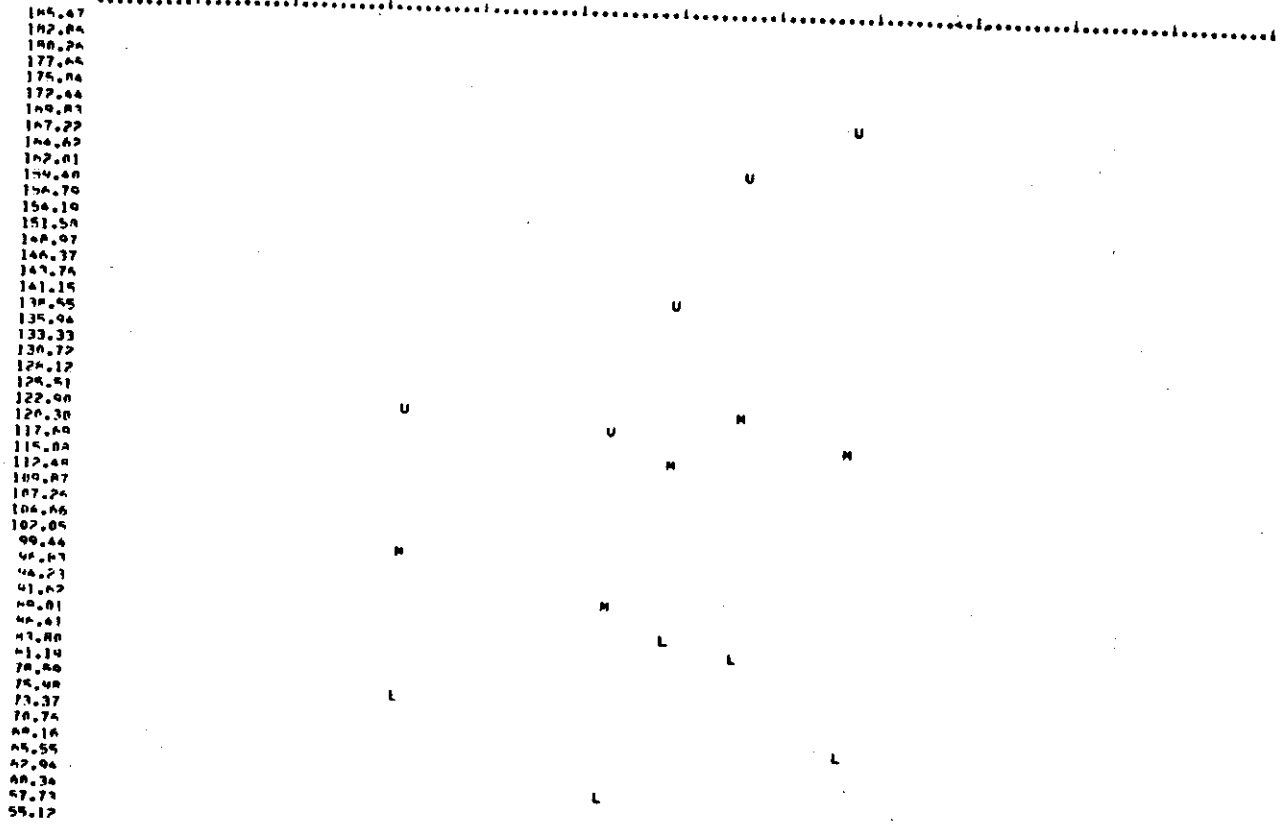


1.0 34.0 67.0 100.0 133.0 166.0 199.0 232.0 265.0 298.0 331.0 364.0 397.0
 Y-AXIS=BELOW GROUND BIOMASS (G/M SO) FOR 10-20 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE. TRT 2 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
169	12	143.86	12.08			
170	12	104.83	16.41	2.21	117.23	170.52
208	12	158.67	15.98	2.21	68.62	141.04
223	12	184.28	38.68	2.21	115.42	145.92
244	12	181.22	28.87	2.21	98.84	209.55
				2.21	119.28	243.17

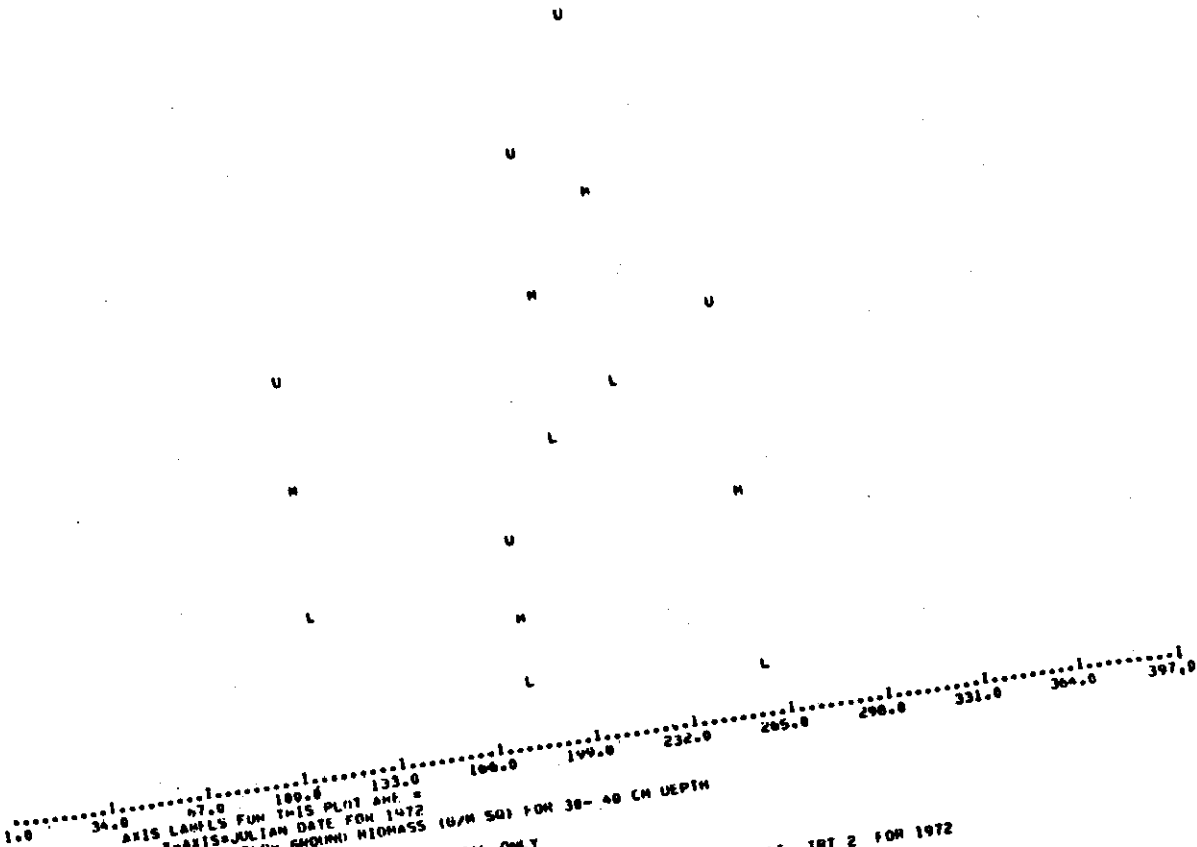


AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M²) FOR 20-30 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY
 THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAWNEE TRT 2 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M ²)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
149	12	99.31	10.92	2.21		
179	12	41.25	13.60	2.21	75.22	123.41
200	12	114.59	12.36	2.21	61.25	121.25
223	12	123.00	18.00	2.21	87.40	141.70
254	12	118.41	22.75	2.21	83.19	162.97
					68.21	168.61

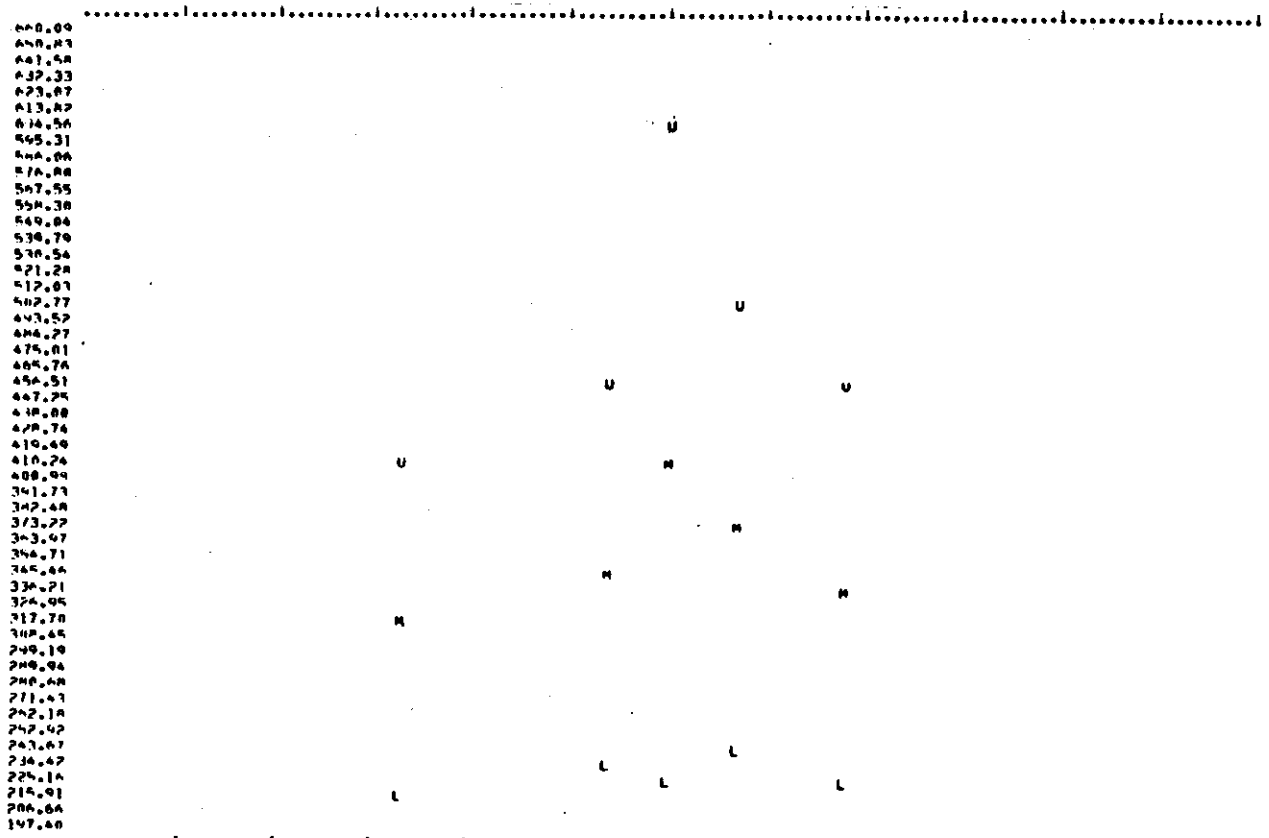
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 111.77
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 95.14
 93.04
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 88.90
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 80.50
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 72.27
 70.10
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 61.07
 58.70
 57.71
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 53.54
 51.40
 49.32
 47.32
 45.26
 43.14
 41.08
 39.00
 37.00



100 34.0 67.0 100.0 133.0 166.0 199.0 232.0 265.0 298.0 331.0 364.0 397.0

THESE DATA INCLUDE ROOT MATERIAL ONLY
 THESE DATA REPRESENT FLOW-GROUND BIOMASS SAMPLING ON SITE. PANNE. TRT 2 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEL VALUE	LOWER LIMIT	UPPER LIMIT
100	12	71.30	0.78	2.21	50.34	66.26
170	12	52.20	0.57	2.21	42.12	62.28
200	12	92.95	0.62	2.21	73.92	111.97
223	12	104.03	10.50	2.21	81.50	120.00
240	12	64.51	10.05	2.21	41.02	88.00



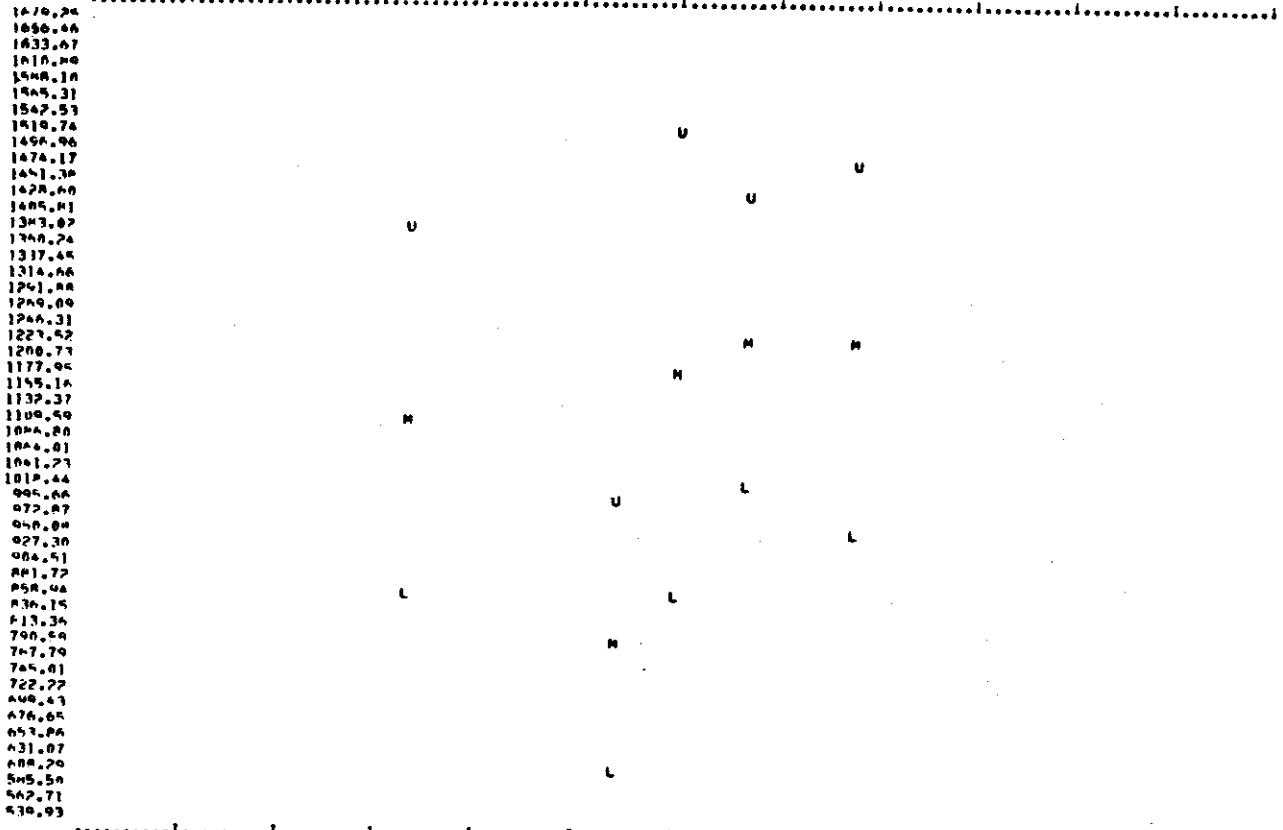
1.0 34.0 67.0 100.0 133.0 166.0 199.0 232.0 265.0 298.0 331.0 364.0 397.0

AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0- 0 CM DEPTH

THESE DATA INCLUDE CHOWN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE TRI 4 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

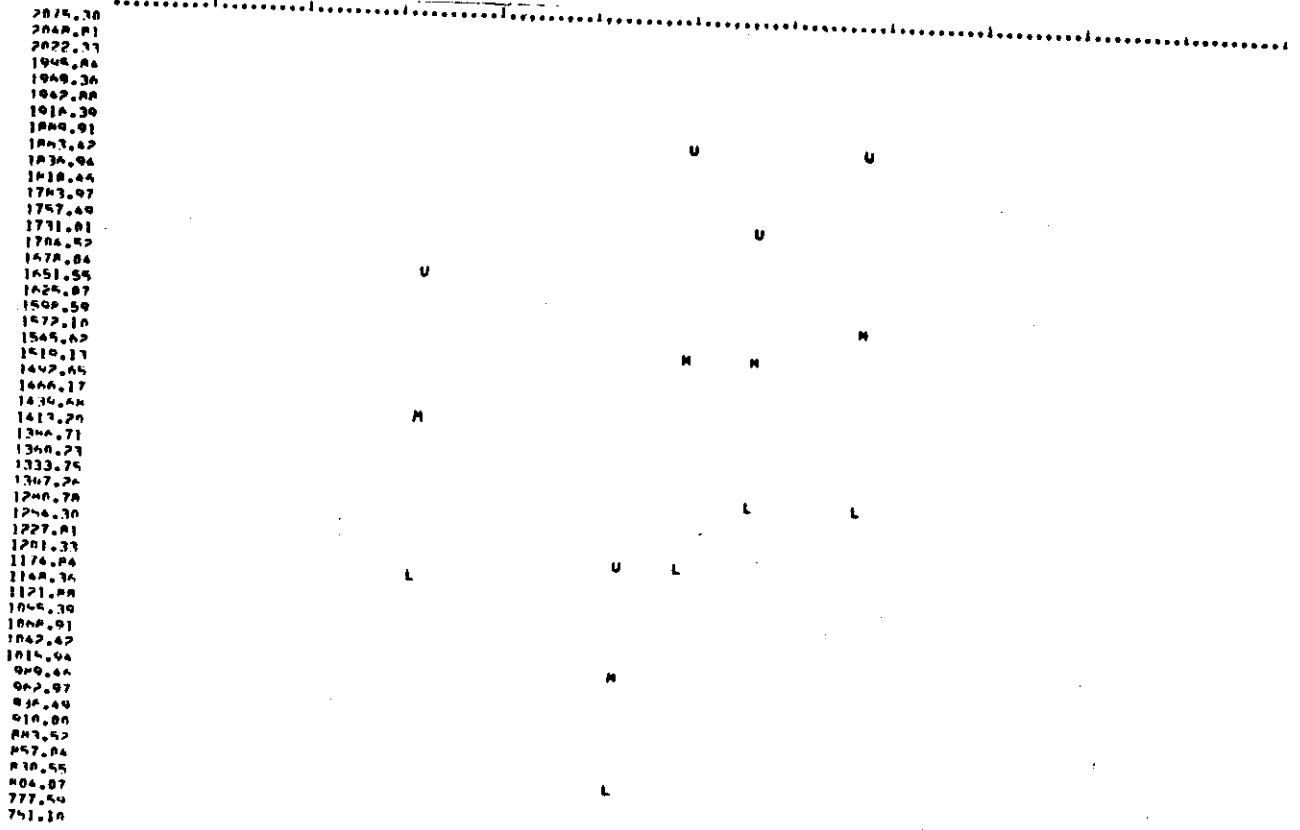
JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEL VALUE	LOWER LIMIT	UPPER LIMIT
100	12	315.34	43.51	2.21	219.33	411.34
170	12	344.20	50.43	2.21	232.94	455.46
200	12	412.11	55.19	2.21	224.13	600.00
223	12	371.74	50.22	2.21	243.32	500.25
244	12	340.80	51.41	2.21	227.38	454.23



.....
 1.0 34.0 67.0 100.0 133.0 166.0 199.0 232.0 265.0 298.0 331.0 364.0 397.0
 AXIS LABELS FOR THIS PLOT ARE X
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SO) FOR 0- 10 CM DEPTH

THESE DATA INCLUDE CHOWN MATERIAL
 THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNLE, TRT 4 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEL VALUE	LOWER LIMIT	UPPER LIMIT
109	12	1111.54	118.18	2.21	850.00	1372.28
179	12	794.08	88.00	2.21	599.92	988.23
200	12	1187.51	153.08	2.21	848.43	1526.59
223	12	1221.89	93.30	2.21	1016.03	1427.74
254	12	1212.95	117.01	2.21	954.38	1470.72



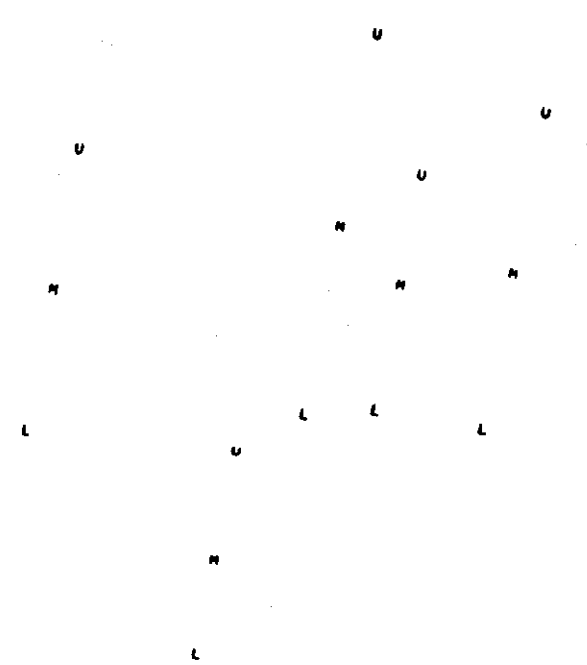
1.0 34.0 67.0 100.0 133.0 166.0 199.0 232.0 265.0 298.0 331.0 364.0 397.0
 AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0-30 CM DEPTH

THESE DATA INCLUDE CHURN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE. TRT 4 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
169	12	1428.58	118.86			
179	12	1023.64	85.72	2.21	1166.33	1690.83
208	12	1546.14	154.32	2.21	834.56	1212.01
223	12	1544.87	101.81	2.21	1285.64	1886.83
254	12	1595.37	131.64	2.21	1329.22	1769.51
				2.21	1364.62	1885.92

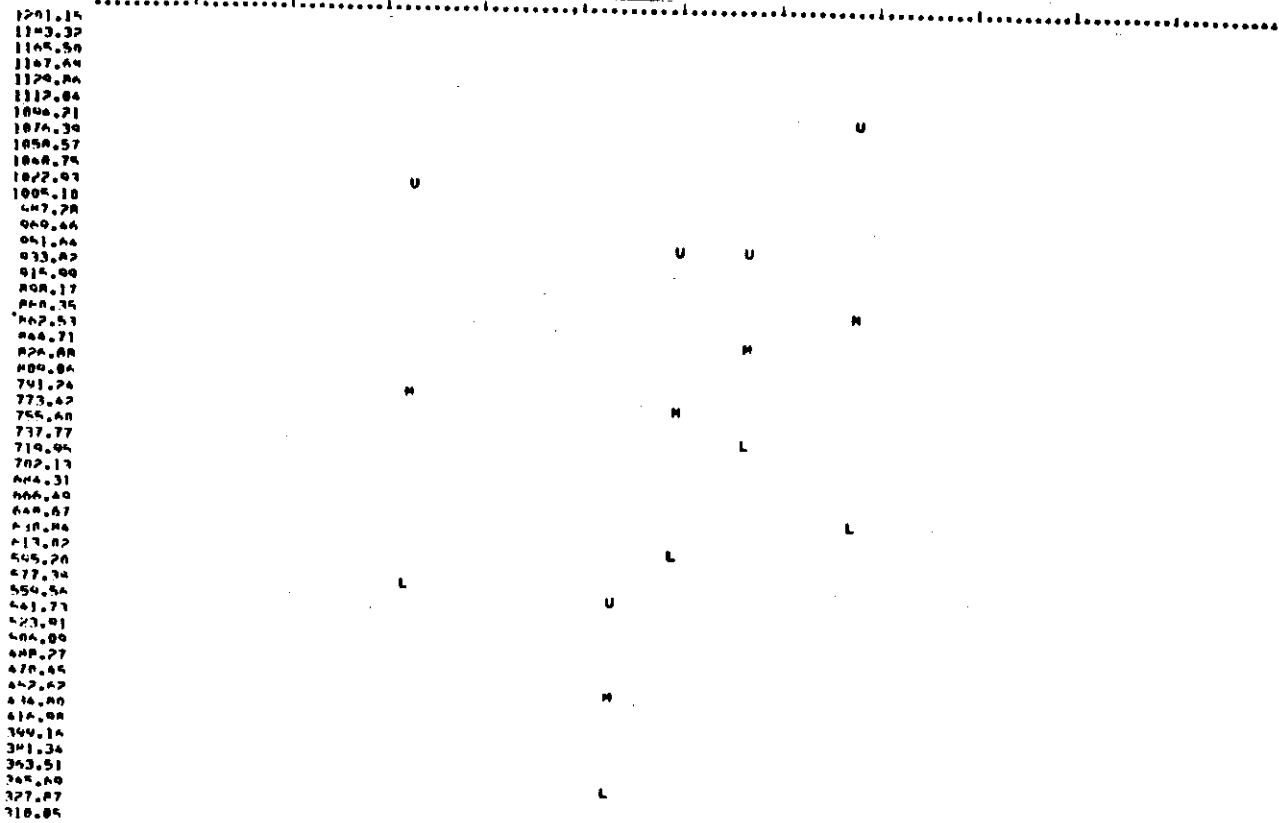
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 224R.01
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 219R.07
 216R.04
 213R.03
 210R.02
 207R.00
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 201R.77
 198R.74
 195R.71
 192R.72
 189R.70
 186R.68
 183R.66
 180R.64
 177R.61
 174R.61
 171R.60
 168R.58
 165R.56
 162R.54
 159R.51
 156R.51
 153R.50
 150R.48
 147R.46
 144R.45
 141R.43
 138R.41
 135R.40
 132R.38
 129R.36
 126R.34
 123R.33
 120R.31
 117R.29
 114R.28
 111R.26
 108R.24
 105R.23
 102R.21
 99R.19
 96R.18
 93R.16
 90R.14
 87R.13
 84R.11
 81R.00



1.0
 34.0 67.0 100.0 133.0 166.0 199.0 232.0 265.0 298.0 331.0 364.0 397.6
 AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=MELON GROUND BIOMASS (G/M²) FOR 0-40 CM DEPTH

THESE DATA INCLUDE CROWN MATERIAL
 THESE DATA REPRESENT MELON-GROUND BIOMASS SAMPLING ON SITE PANNING, TRT A FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M ²)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
189	12	1533.41	122.84	2.21	1262.26	1804.55
174	12	1100.50	86.80	2.21	908.99	1292.02
200	12	1742.22	105.80	2.21	1376.31	2108.12
223	12	1054.36	102.11	2.21	1429.07	1879.65
248	12	1719.72	141.24	2.21	1487.99	2031.46

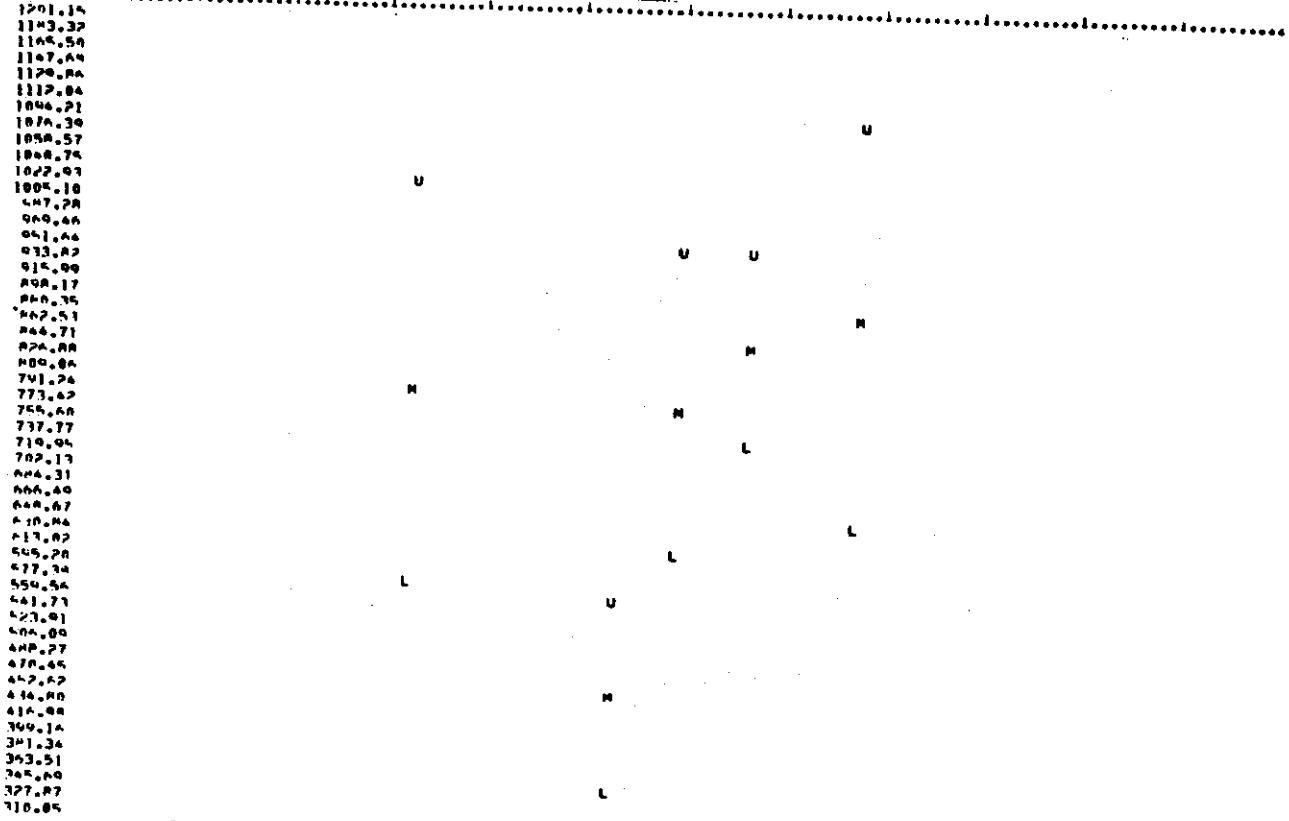


.....
 1.0 74.0 117.0 180.0 133.0 166.0 199.0 232.0 265.0 298.0 331.0 364.0 397.0
 AXIS LABELS FOR THIS PLOT ARE :
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SO) FOR 0- 10 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEL TRT 4 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEL VALUE	LOWER LIMIT	UPPER LIMIT
189	12	706.20	100.92			
179	12	449.88	47.76	2.21	344.50	1018.87
200	12	775.40	76.36	2.21	666.88	555.26
223	12	858.10	48.62	2.21	742.82	943.93
258	12	871.75	99.88	2.21	651.54	957.38
						1091.95



AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW-GROUND BIOMASS (G/M SO) FOR 0-10 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRT 4 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
186	12	796.20	100.92	2.21	573.53	1018.07
179	12	449.88	47.76	2.21	344.50	555.26
200	12	775.40	76.38	2.21	606.86	943.93
223	12	850.10	48.62	2.21	742.82	957.38
248	12	871.75	99.80	2.21	651.56	1091.95

1678.83
1693.99
1770.15
1780.31
1720.04
1780.67
1670.74
1654.94
1630.80
1605.75
1580.61
1555.57
1530.73
1505.88
1481.04
1456.20
1431.36
1406.51
1381.67
1356.83
1331.99
1307.14
1282.30
1257.44
1232.62
1207.74
1182.89
1158.00
1133.25
1108.41
1083.54
1058.72
1033.88
1009.04
984.19
959.35
934.51
909.67
884.83
859.98
835.14
810.30
785.46
760.61
735.77
710.93
686.09
661.24
636.40
611.56
586.72

1.0 30.0 67.0 100.0 133.0 166.0 199.0 232.0 265.0 298.0 331.0 364.0 397.0

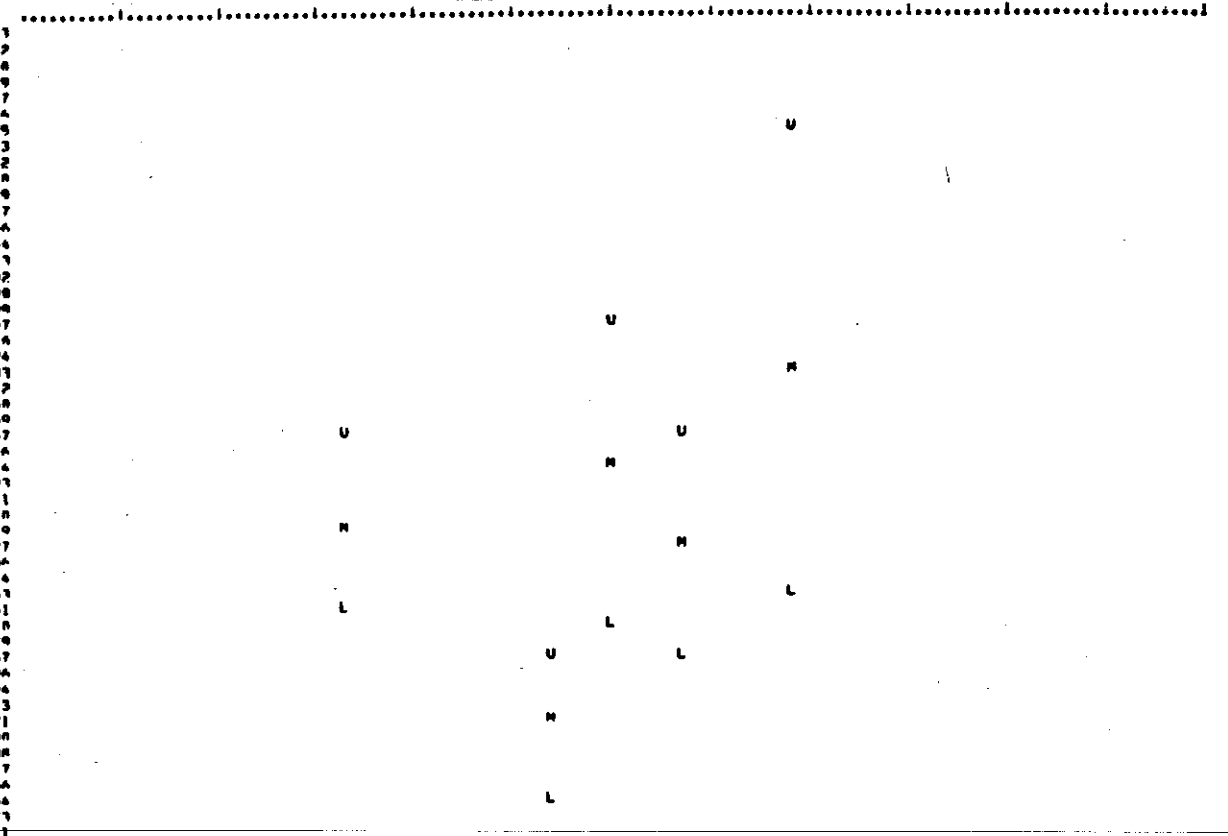
AXIS LABELS FOR THIS PLOT ARE:
X-AXIS=JULIAN DATE FOR 1972
Y-AXIS=RELATIVE GROUND BIOMASS (G/M SO) FOR 0-40 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT RELATIVE GROUND BIOMASS SAMPLING ON SITE PANNON. TRY 4 FOR 1972
(CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
109	12	1218.07	109.27	2.21	976.97	1459.17
174	12	750.30	47.32	2.21	651.91	800.70
200	12	1330.11	100.59	2.21	1099.35	1560.88
223	12	1282.58	60.89	2.21	1149.99	1415.16
250	12	1376.92	128.56	2.21	1095.26	1662.58

330.51
 330.62
 320.78
 324.79
 310.87
 314.84
 310.85
 304.13
 300.22
 294.38
 290.30
 284.47
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 270.73
 264.82
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 246.16
 241.24
 236.33
 231.42
 226.50
 221.59
 216.67
 211.76
 206.84
 201.93
 197.01
 192.10
 187.19
 182.27
 177.36
 172.44
 167.53
 162.61
 157.70
 152.79
 147.87
 142.96
 138.04
 133.13
 128.21
 123.30
 118.38
 113.47
 108.56
 103.64
 98.73
 93.81



1.0 34.0 67.0 100.0 133.0 166.0 199.0 232.0 265.0 298.0 331.0 364.0 397.0

AXIS LABELS FOR THIS PLOT ARE *
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=NELOW GROUND BIOMASS (G/M SQ) FOR 10- 20 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAMMEE TRT 4 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEL VALUE	LOWER LIMIT	UPPER LIMIT
169	12	100.06	11.05	2.21	103.16	214.57
179	12	126.40	10.27	2.21	104.24	149.56
200	12	204.99	20.93	2.21	158.00	251.10
223	12	182.92	16.24	2.21	146.97	210.87
248	12	237.67	32.10	2.21	166.66	300.66

211.44
 204.70
 204.11
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 200.74
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 195.40
 192.72
 190.84
 187.37
 184.60
 182.82
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 171.31
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 117.77
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 109.74
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 99.03
 96.35
 93.67
 91.00
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 85.64
 82.97
 80.29
 77.61

1.0 34.0 67.0 100.0 133.0 166.0 199.0 232.0 265.0 298.0 331.0 364.0 397.0

AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=HELIX GROUND BIOMASS (G/M SQ) FOR 20-30 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAMPLET TRT 4 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
100	12	128.17	15.61	2.21	93.74	162.61
179	12	102.71	7.47	2.21	86.24	119.18
200	12	153.64	17.50	2.21	115.04	192.24
273	12	140.86	20.94	2.21	93.80	186.25
254	12	145.15	14.35	2.21	104.67	185.63

329.94
 326.65
 318.92
 313.30
 307.84
 302.33
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 291.27
 285.74
 280.21
 274.69
 269.16
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 258.10
 252.57
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 241.51
 235.99
 230.45
 224.92
 219.39
 213.86
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 202.81
 197.28
 191.75
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 175.16
 169.63
 164.10
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 153.04
 147.51
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 119.87
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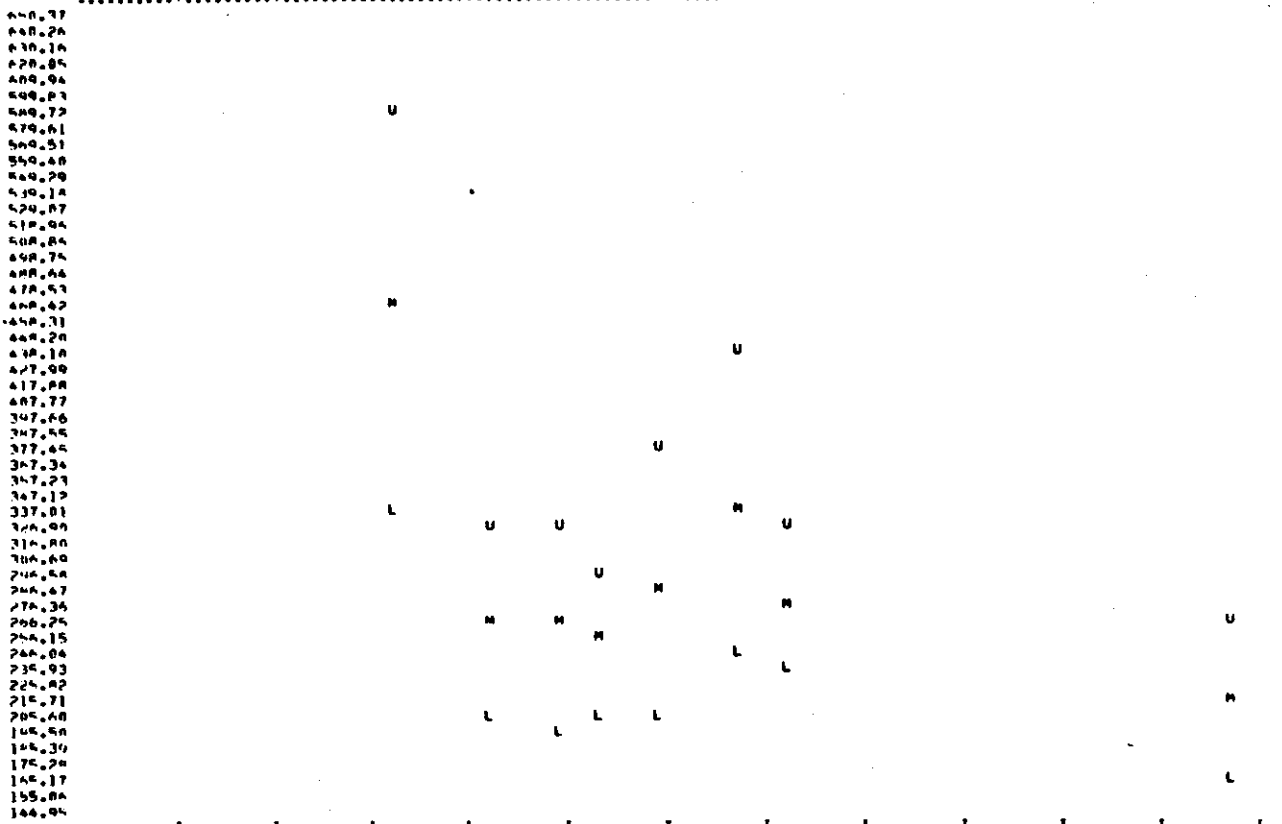
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 1.0 30.0 67.0 100.0 133.0 166.0 199.0 232.0 265.0 298.0 331.0 364.0 397.0

 AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 30-40 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRT 4 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
169	12	104.83	11.84	2.21	78.72	130.94
179	12	76.82	7.87	2.21	59.46	94.18
200	12	196.08	47.89	2.21	92.18	299.98
223	12	109.59	18.85	2.21	85.56	133.44
254	12	124.35	17.55	2.21	85.64	163.07



ARIS SAMPLES FOR THIS PLOT ARE #

X-AXIS=JULIAN DATE FOR 1973

Y-AXIS=BELOW-GROUND BIOMASS (G/M SO) FOR 0-10 CM DEPTH

THESE DATA INCLUDE CROWN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TMT 5 FOR 1972
(CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
100	12	466.14	56.70	2.21	341.03	591.25
130	12	261.08	27.76	2.21	200.62	323.14
163	12	261.44	30.48	2.21	194.19	328.70
175	12	253.35	20.10	2.21	208.86	297.82
195	12	290.88	38.64	2.21	205.62	376.13
221	12	341.64	41.50	2.21	250.87	433.22
237	12	280.76	20.20	2.21	236.19	325.33
300	11	213.79	23.57	2.24	161.06	266.51

1128.88
 1118.88
 1098.71
 1079.54
 1063.91
 1048.26
 1032.61
 1018.97
 1001.32
 984.67
 978.82
 954.37
 938.72
 921.87
 907.41
 891.78
 878.11
 868.48
 848.81
 824.18
 813.53
 797.89
 782.24
 766.59
 758.94
 738.29
 719.64
 703.99
 688.34
 672.70
 657.05
 641.40
 628.75
 618.10
 606.44
 578.81
 541.16
 527.51
 511.86
 514.21
 508.56
 494.92
 480.27
 451.62
 437.97
 422.32
 406.67
 381.02
 375.38
 360.73
 344.08

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1.0 34.0 67.0 100.0 133.0 166.0 199.0 232.0 265.0 298.0 331.0 364.0 397.0

AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0-10 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAWNEE TRT 5 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
139	12	573.73	64.89	2.21	382.31	665.16
241	12	401.29	100.98	2.21	578.49	1024.10

1571.17
 1551.67
 1532.16
 1512.66
 1493.15
 1473.65
 1454.14
 1434.64
 1415.13
 1395.63
 1376.12
 1356.62
 1337.11
 1317.61
 1298.10
 1278.60
 1259.09
 1239.59
 1220.08
 1200.58
 1181.07
 1161.57
 1142.07
 1122.56
 1103.06
 1083.55
 1064.05
 1044.54
 1025.04
 1005.53
 986.03
 966.52
 947.02
 927.51
 908.01
 888.50
 869.00
 849.49
 829.99
 810.48
 790.98
 771.47
 751.97
 732.46
 712.96
 693.45
 673.95
 654.44
 634.94
 615.43
 595.93

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1.0 34.0 67.0 100.0 133.0 166.0 199.0 232.0 265.0 298.0 331.0 364.0 397.0

ARE 15 SAMPLES FROM THIS PLOT ARE 2
 B-ARIS=JULIAN DATE FOR 1972
 Y-ARIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0-30 CM DEPTH

THESE DATA INCLUDE MOIST MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE MAWNEE, TRT 5 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
179	12	839.49	80.30	2.21	662.15	1016.83
241	12	1182.84	111.27	2.21	937.34	1428.34

1475.11
 1455.26
 1435.41
 1415.57
 1395.72
 1375.87
 1355.02
 1335.17
 1315.32
 1295.47
 1275.62
 1255.77
 1235.92
 1217.08
 1197.23
 1177.38
 1157.53
 1137.68
 1117.83
 1097.98
 1078.13
 1058.28
 1038.44
 1018.59
 998.74
 978.89
 959.04
 939.19
 919.34
 899.49
 879.64
 859.79
 839.94
 820.10
 800.25
 780.40
 760.55
 740.70
 720.85
 701.00
 681.15
 661.31
 641.46
 621.61
 601.76
 581.91
 562.06
 542.21
 522.36
 502.51
 482.67

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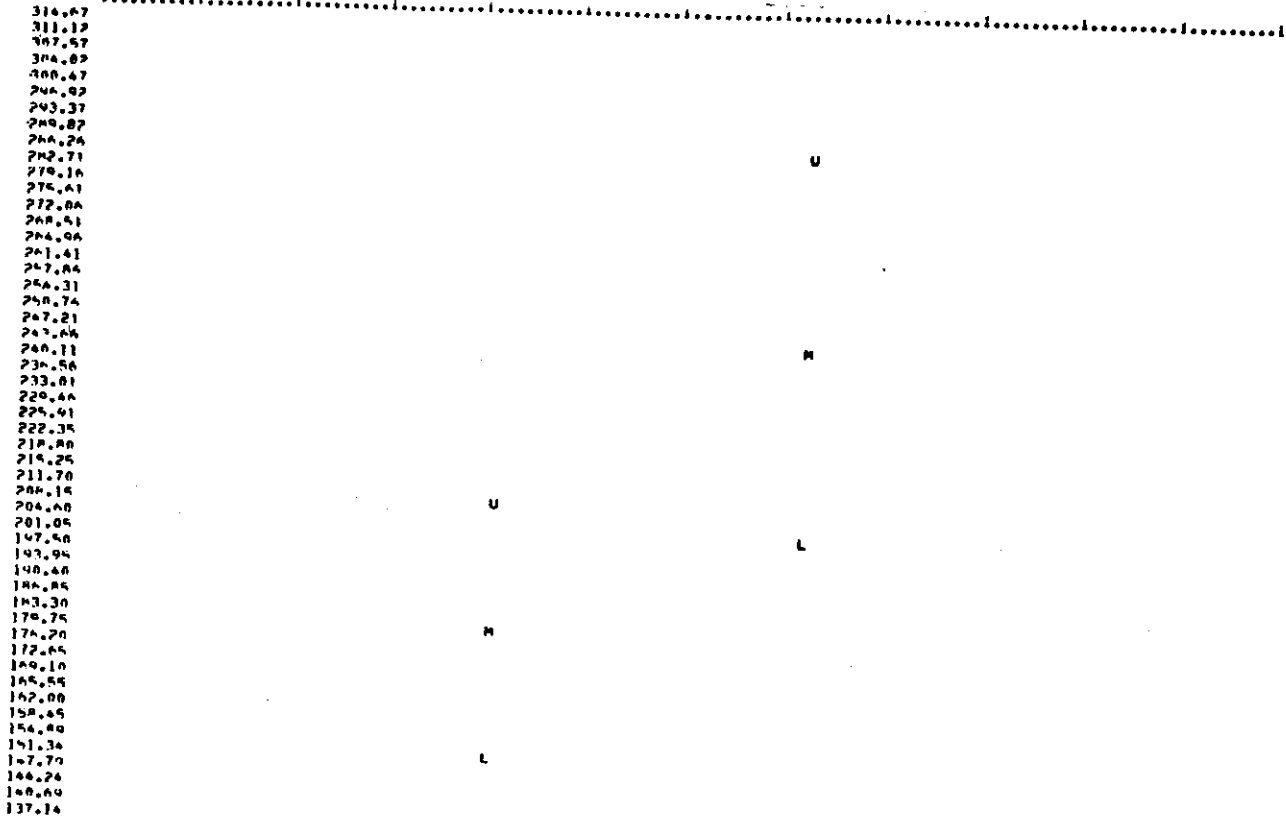
1.0 34.0 67.0 100.0 133.0 166.0 199.0 232.0 265.0 298.0 331.0 364.0 397.0

AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0-40 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRT 5 FOR 1972
 (COMPLIANCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
139	12	948.81	96.41	2.21	758.52	1175.11
241	12	1278.76	110.62	2.21	1034.69	1522.83



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 1.0 16.0 31.0 47.0 62.0 78.0 93.0 109.0 124.0 140.0 155.0 171.0 186.0 202.0 217.0 232.0 248.0 263.0 279.0 294.0 310.0 325.0 341.0 356.0 372.0 387.0 397.0

 AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 10-20 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PARCEL 5 TRT 5 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TCL VALUE	LOWER LIMIT	UPPER LIMIT
139	12	179.95	12.50	2.21	152.30	207.52
241	12	243.61	19.24	2.21	201.16	286.06

146.23
 147.04
 149.08
 147.71
 144.53
 143.34
 141.10
 179.81
 174.86
 174.67
 172.49
 178.32
 144.15
 144.07
 143.00
 161.62
 150.65
 157.28
 155.10
 142.01
 150.74
 148.58
 146.41
 144.24
 142.06
 139.09
 137.71
 136.54
 133.37
 131.10
 120.02
 120.05
 124.67
 122.50
 120.33
 114.14
 114.04
 113.00
 111.63
 109.44
 107.24
 105.11
 102.94
 100.74
 98.50
 96.27
 94.24
 92.07
 89.08
 87.72
 85.55

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1.0 30.0 47.0 100.0 133.0 166.0 199.0 232.0 265.0 298.0 331.0 364.0 397.0

AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M²) FOR 20-30 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAVNLE. TRY 5 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M ²)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
179	12	135.81	18.47	2.21	95.05	176.57
241	12	137.93	15.55	2.21	103.02	172.25

156.81
147.10
149.60
144.60
147.00
141.27
178.57
174.06
173.14
170.44
167.74
164.01
162.33
150.62
156.91
154.20
151.50
148.70
144.00
143.30
140.47
137.94
134.20
132.44
129.04
127.17
126.43
121.72
119.01
114.31
113.60
110.00
108.10
104.40
102.77
100.00
97.70
94.00
91.94
89.21
84.51
81.02
81.11
78.41
74.70
72.00
70.20
67.40
64.07
62.10
58.00

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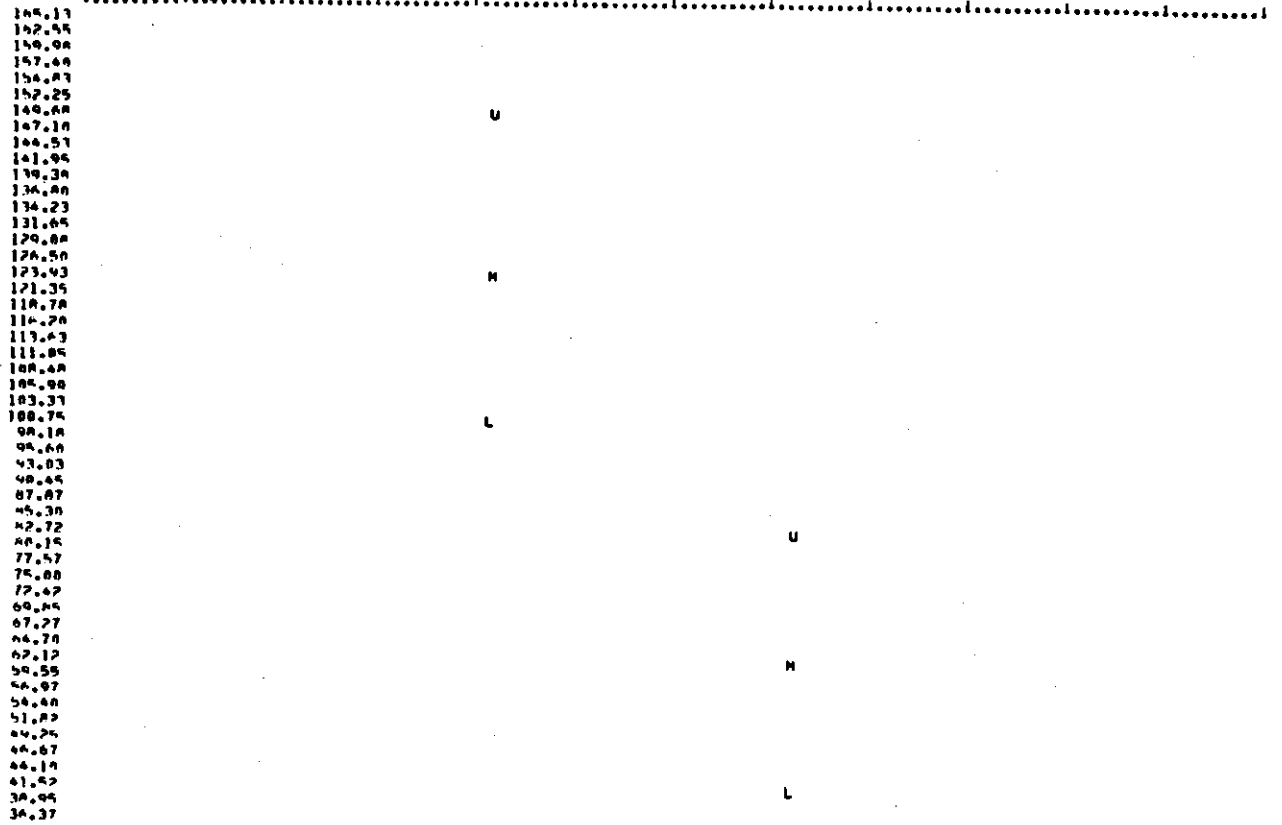
1.0 34.0 67.0 100.0 133.0 166.0 199.0 232.0 265.0 298.0 331.0 364.0 397.0

AXIS LABELS FOR THIS PLOT ARE:
X-AXIS=JULIAN DATE FOR 1972
Y-AXIS=BELW GROUND BIOMASS (G/M SQ) FOR 30-40 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANOLE, TRT 5 FOR 1972
(CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEL VALUE	LOWER LIMIT	UPPER LIMIT
134	12	127.32	22.56	2.21	77.55	177.10
241	12	95.92	13.53	2.21	66.00	125.77



AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M²) FOR 40- 50 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, THT 5 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M ²)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
134	12	125.20	11.29	2.21	100.29	150.12
241	12	61.12	9.38	2.21	40.41	81.02

127.88
121.44
119.89
118.21
116.48
114.96
113.33
111.71
110.09
108.46
106.84
105.21
103.59
101.96
100.34
98.71
97.09
95.46
93.84
92.21
90.59
88.96
87.34
85.71
84.09
82.47
80.84
79.22
77.59
75.97
74.34
72.72
71.09
69.47
67.84
66.22
64.59
62.97
61.34
59.72
58.10
56.47
54.85
53.22
51.60
49.97
48.34
46.72
45.10
43.47
41.84

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1.0 34.0 67.0 100.0 133.0 166.0 199.0 232.0 265.0 298.0 331.0 364.0 397.0

AXIS LABELS FOR THIS PLOT ARE =
X-AXIS=JULIAN DATE FOR 1972
Y-AXIS=FLOW (GROUND) BIOMASS (G/M SQ) FOR 50- 60 CM DEPTH

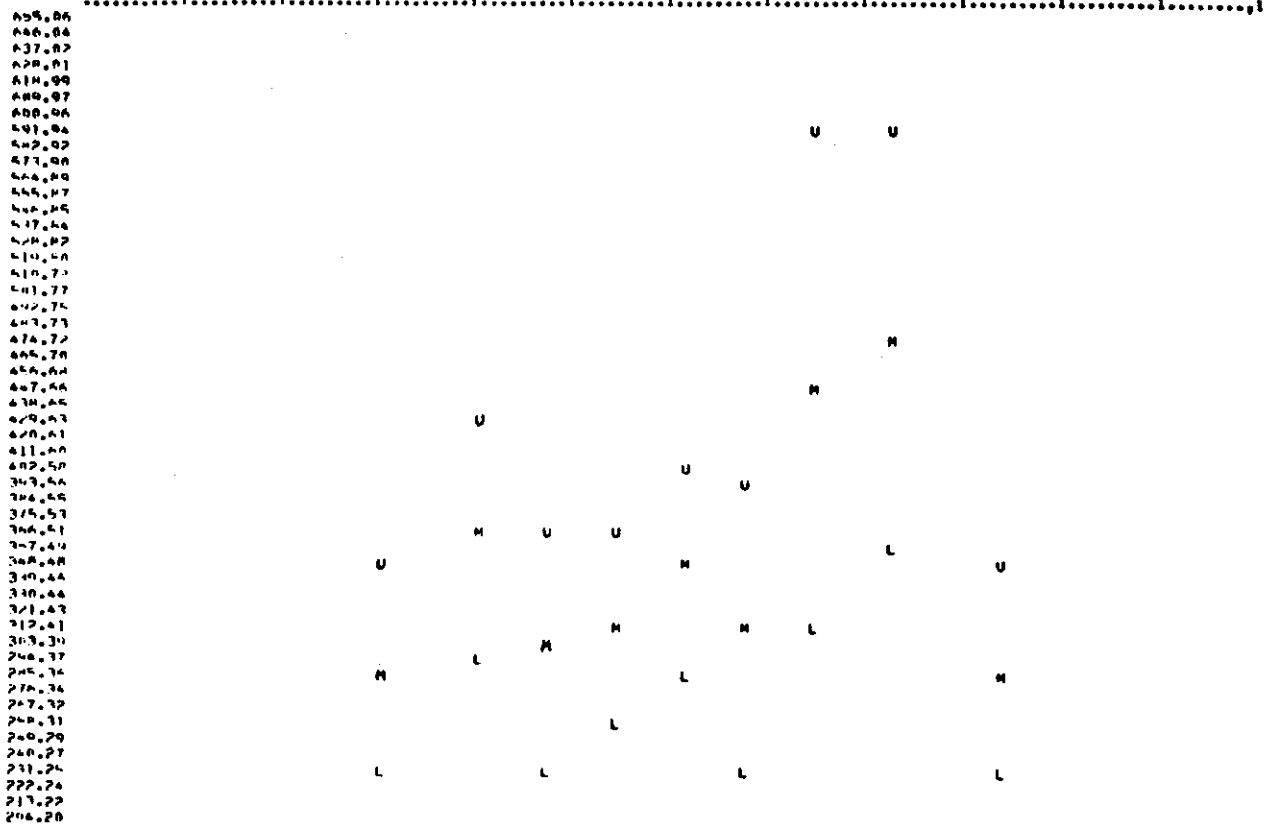
THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT FIELD-GROUND BIOMASS SAMPLING ON SITE PANNEL, TRT 5 FOR 1972
(CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
134	12	84.88	12.24	2.21	57.87	111.89
261	12	63.24	7.59	2.21	46.50	79.98

7.3.2 Environmental stress area

The belowground herbage sampling for the Pawnee Site for 1972, on the environmental stress area, was done on each of two replicates for treatments D, E, F, and G. Nine sampling dates were included. Of these, all dates were sampled down to the 10 cm level, and in addition three sampling dates went down to a depth of 40 cm and one sampling date went down beyond 40 cm. The cores were cut into increments of 0 to 5, 5 to 10 cm, and in 10 cm increments below that level down to 80 cm. The crown material was reported as a 0 to 0 cm level with ash weights and dry weights included. Since only one sampling date went below 40 cm, the graphs and tables for the depths beyond 40 cm were omitted.



1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0- 0 CM DEPTH

THESE DATA INCLUDE CHURN MATERIAL
 THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRT 0 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
94	36	287.78	38.37	2.00	226.89	348.68
123	36	362.74	32.15	2.00	298.34	427.25
145	36	301.24	33.25	2.00	234.58	367.90
167	36	312.24	27.51	2.00	257.08	367.48
189	36	344.75	28.88	2.00	289.42	404.08
211	36	311.30	40.07	2.00	230.97	391.63
233	36	450.65	44.69	2.00	318.94	590.36
255	36	476.18	59.56	2.00	356.69	595.51
277	36	286.78	29.54	2.00	227.58	346.00

1447.49
 1479.87
 1442.24
 1444.52
 1474.24
 1400.84
 1391.34
 1373.63
 1354.91
 1338.10
 1328.47
 1362.74
 1245.83
 1247.30
 1249.84
 1271.44
 1214.14
 1194.42
 1179.78
 1140.97
 1143.24
 1124.51
 1187.81
 1098.89
 1072.34
 1054.84
 1034.82
 1014.20
 1001.40
 921.74
 866.07
 844.31
 830.50
 812.47
 804.15
 777.47
 740.70
 741.08
 724.24
 706.54
 748.82
 771.84
 743.37
 714.64
 717.93
 708.21
 642.44
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 611.68

1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

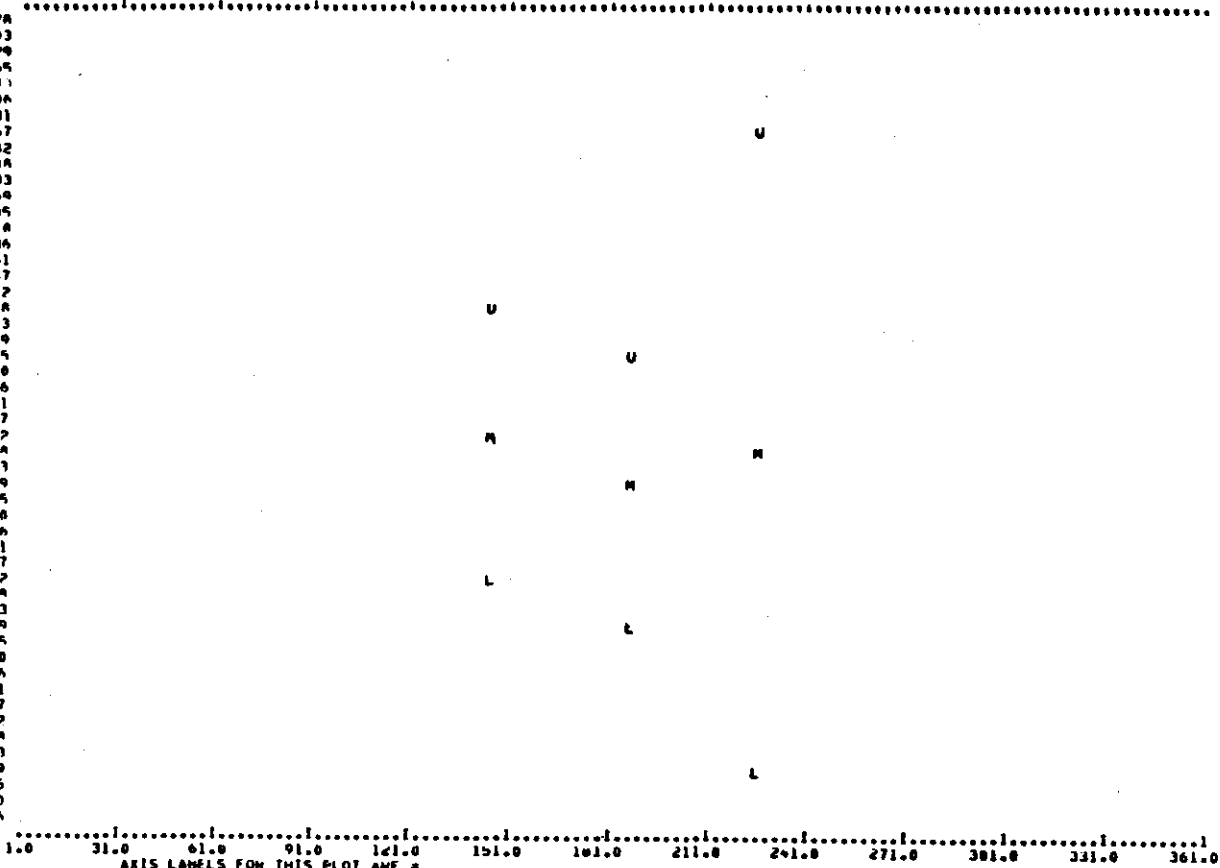
AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M²) FOR 0-10 CM DEPTH

THESE DATA INCLUDE LPOW MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNON TRT D FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M ²)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
95	36	824.52	52.72	2.00	722.82	934.22
123	36	967.35	44.15	2.00	870.82	1063.67
145	36	823.71	63.09	2.00	697.23	950.19
164	36	826.38	53.12	2.00	719.88	932.88
187	36	937.36	55.33	2.00	826.44	1048.28
206	36	815.75	67.44	2.00	679.55	951.95
227	36	1015.10	103.76	2.00	807.09	1223.12
244	36	1165.83	48.82	2.00	968.53	1361.53
283	36	854.85	45.76	2.00	762.31	945.78

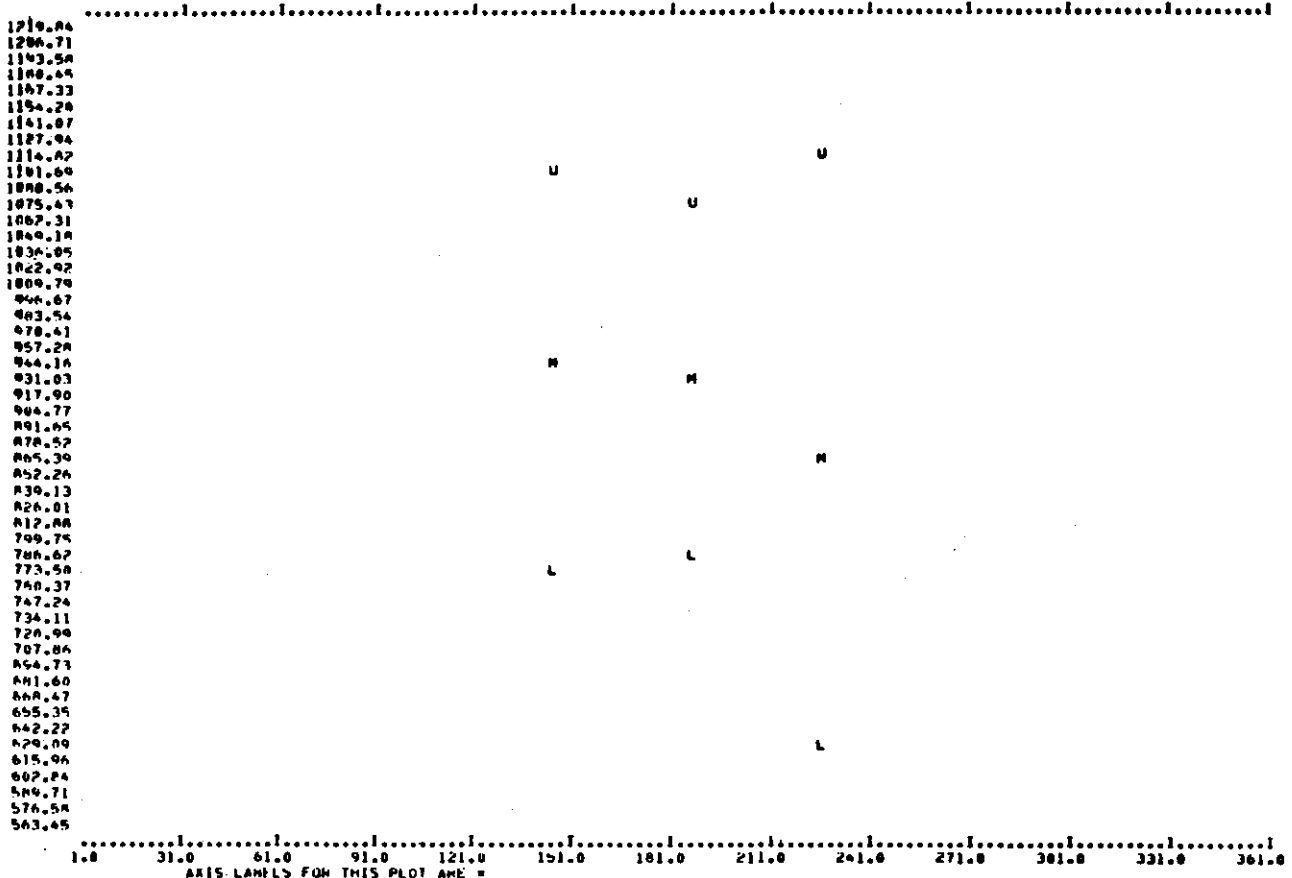
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 1908.08
 1881.31
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 1801.08
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 1720.85
 1694.10
 1667.36
 1640.61
 1613.87
 1587.12
 1560.38
 1533.63
 1506.89
 1480.15
 1453.40
 1426.66
 1399.91
 1373.17
 1346.42
 1319.68
 1292.93
 1266.19
 1239.45
 1212.70
 1185.96
 1159.21
 1132.47
 1105.72
 1078.98
 1052.23
 1025.49
 998.75
 972.00
 945.26
 918.51
 891.77
 865.02
 838.28
 811.53
 784.79
 758.05
 731.30
 704.56



1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0
 AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0-30 CM DEPTH

THESE DATA INCLUDE CROWN MATERIAL
 THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRT D FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
146	12	1334.36	99.31	2.21	1115.24	1553.47
187	12	1254.57	102.83	2.21	1027.09	1481.44
227	12	1319.50	243.23	2.21	782.84	1856.16

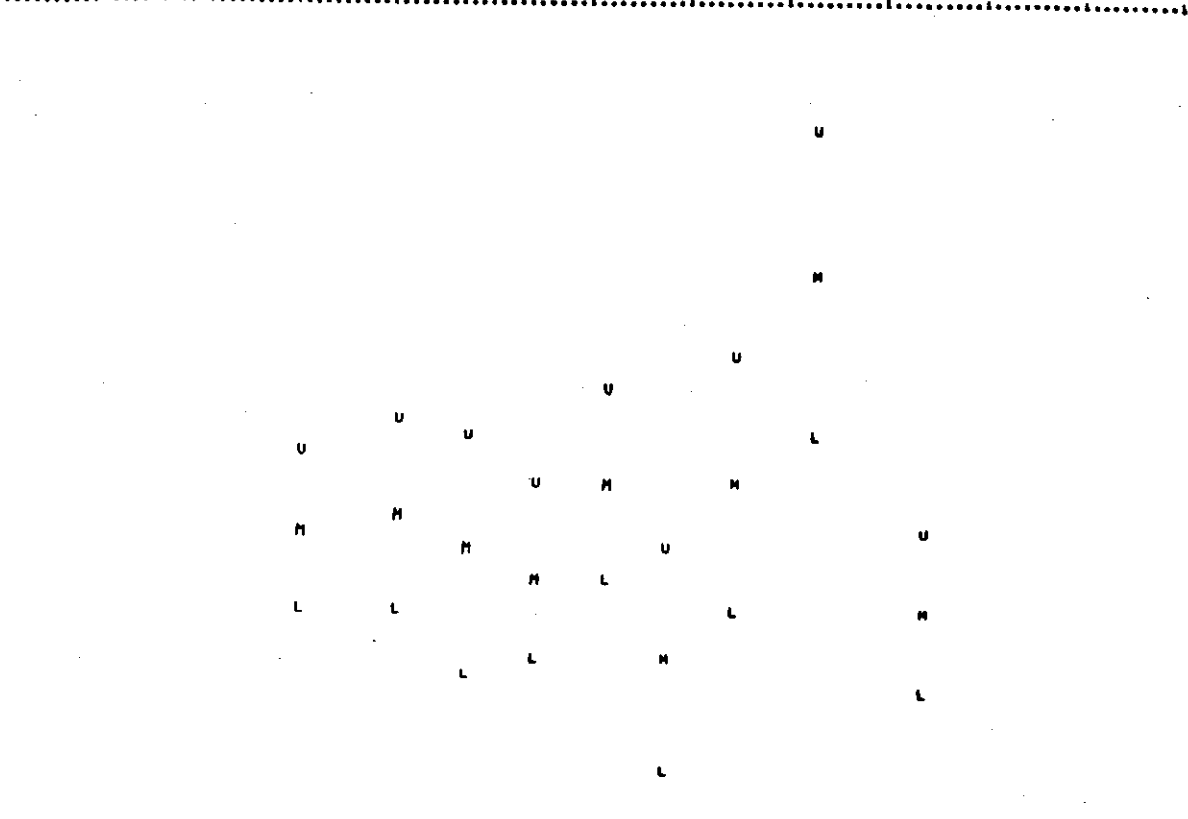


AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SU) FOR 0-30 CM DEPTH
 THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAMMLE, TRT 0 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SU)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
146	12	948.50	75.64	2.21	773.68	1107.40
187	12	934.13	64.39	2.21	792.06	1076.21
227	12	867.50	109.43	2.21	626.06	1108.94

700.04
 800.04
 900.04
 1000.04
 1100.04
 1200.04
 1300.04
 1400.04
 1500.04
 1600.04
 1700.04
 1800.04
 1900.04
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 2900.04
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 8200.04
 8300.04
 8400.04
 8500.04
 8600.04
 8700.04
 8800.04
 8900.04
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 9200.04
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1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

Y-AXIS=BELOW GROUND BIOMASS (G/M SO) FOR U= 5 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNON. TRT D FOR 1972 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
04	36	413.03	23.27	2.00		
123	36	424.74	26.84	2.00	366.39	459.00
145	36	401.87	32.78	2.00	370.98	478.60
165	36	389.27	29.79	2.00	336.16	467.59
187	36	445.78	27.31	2.00	337.75	440.78
206	36	343.24	31.95	2.00	391.03	509.52
227	36	441.41	35.04	2.00	279.19	407.29
249	36	556.70	41.98	2.00	371.06	511.75
283	36	367.64	21.65	2.00	472.54	646.86
					324.24	411.04

241.79
244.31
244.82
241.34
217.84
234.37
238.88
227.30
223.91
228.42
214.04
217.65
208.84
204.48
207.90
199.51
144.02
147.84
130.85
145.54
187.08
174.40
175.11
171.42
168.14
164.64
161.14
157.64
154.10
150.71
147.22
144.73
141.24
137.74
133.24
129.79
126.31
122.82
119.33
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77.50

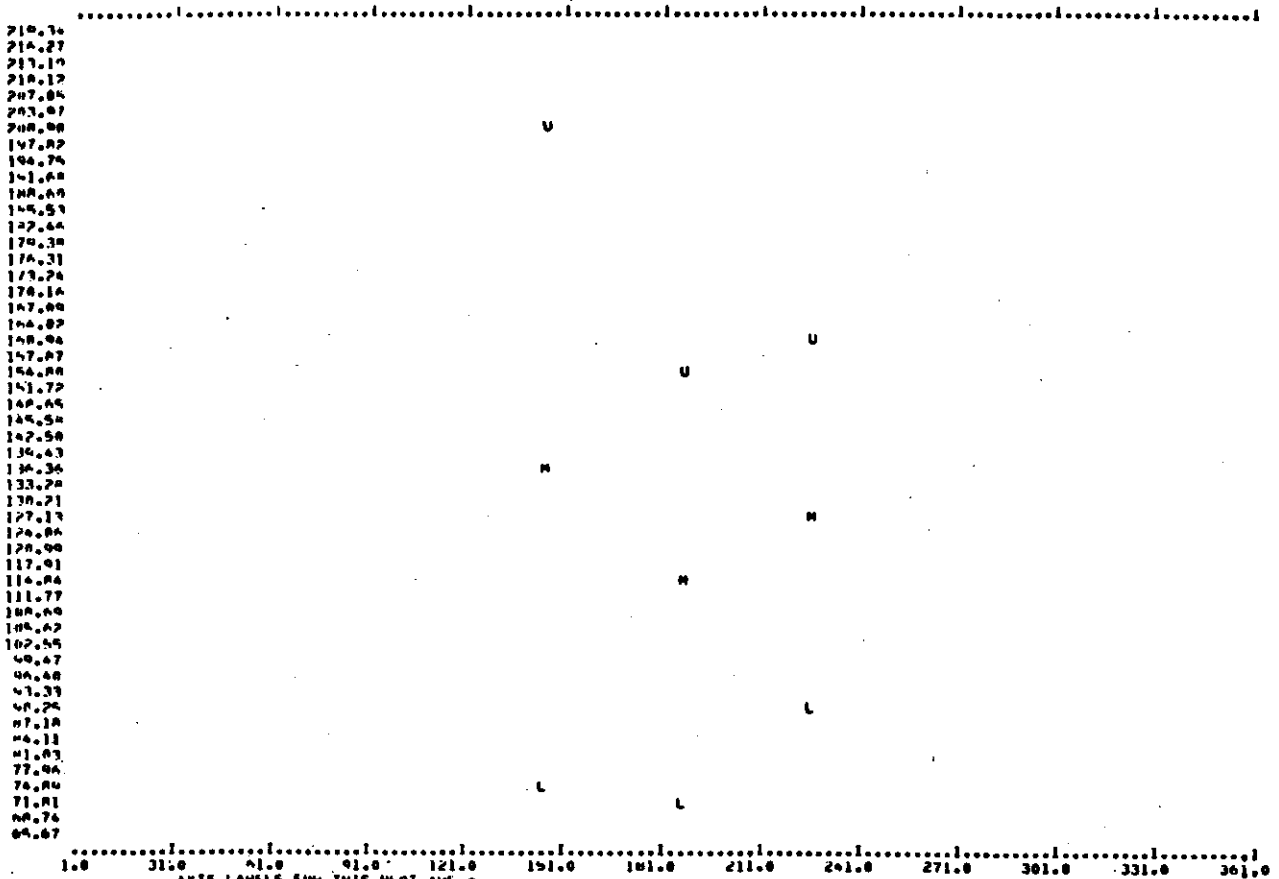
1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE =
X-AXIS=JULIAN DATE FOR 1972
Y-AXIS=HELOW GROUND BIOMASS (G/M²) FOR 5-10 CM DEPTH

THESE DATA INCLUDE POOT MATERIAL ONLY

THESE DATA REPRESENT HELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE TRT U FOR 1972
(CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M ²)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
95	36	127.70	7.54	2.00	112.58	142.82
123	36	179.76	20.79	2.00	138.07	221.45
144	36	120.00	10.25	2.00	100.04	141.15
165	36	124.87	9.80	2.00	105.23	144.51
187	36	164.84	15.25	2.00	114.26	175.41
208	36	181.21	12.04	2.00	137.08	185.35
227	36	123.05	14.42	2.00	86.12	159.98
244	36	132.23	9.21	2.00	113.76	150.69
263	36	199.63	14.00	2.00	170.36	228.90



1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (g/M SO) FOR 20-30 CM DEPTH

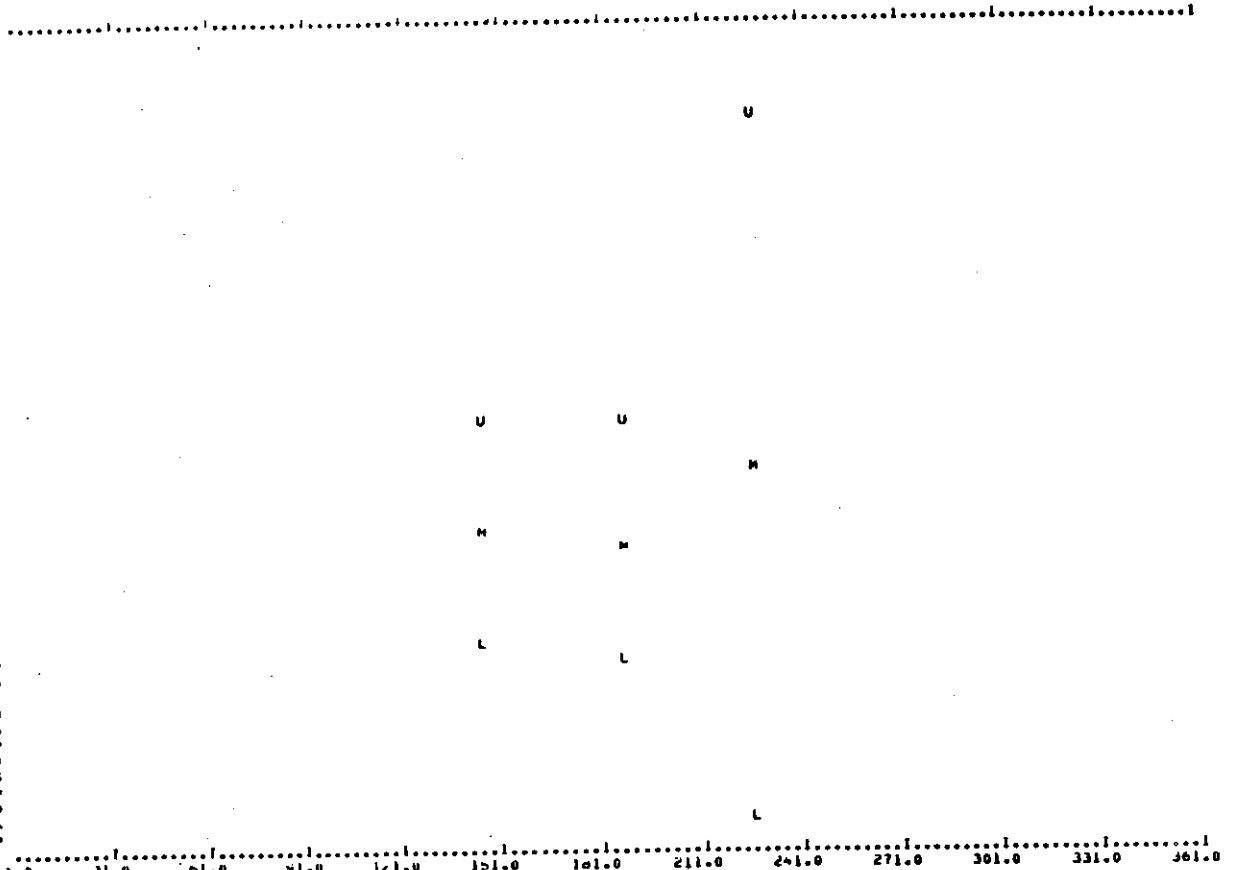
THESE DATA INCLUDE MOIST MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAMPLE, TRT D FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (g/M SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
146	12	137.51	28.05	2.21	75.62	199.40
187	12	114.17	18.68	2.21	72.99	155.37
227	12	126.98	15.96	2.21	91.65	162.15

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JUNE
 10-20
 mean
 146 280.52
 187 229.35
 227 236.15

304.05
 296.72
 296.72
 294.04
 293.72
 278.70
 273.05
 267.72
 262.30
 267.04
 261.72
 244.74
 241.04
 245.73
 240.32
 225.04
 219.73
 214.40
 204.04
 203.73
 184.40
 179.07
 177.73
 172.40
 177.07
 171.74
 164.40
 161.07
 155.74
 150.40
 145.07
 140.74
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 129.07
 123.74
 118.41
 113.04
 107.74
 102.41
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 60.74
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 48.04
 43.74
 38.42



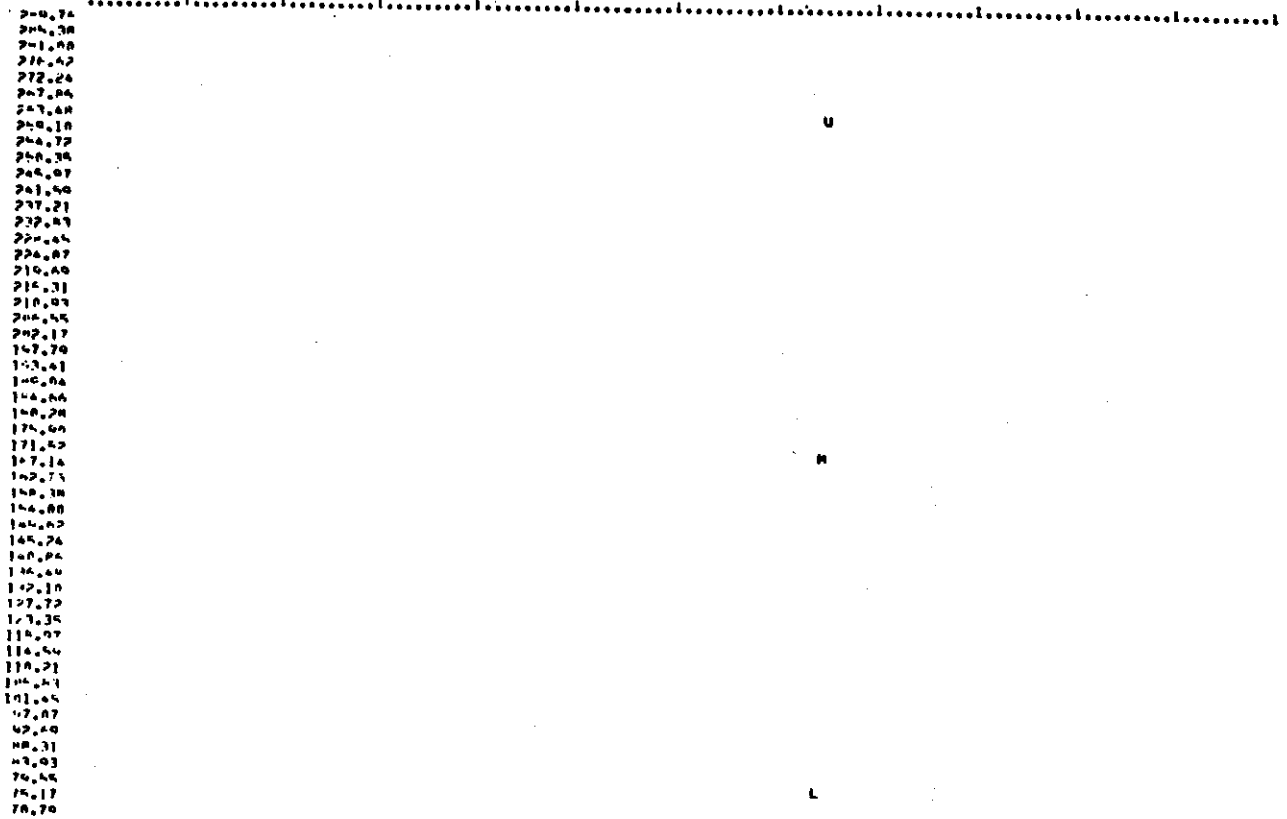
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X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=HELVON GROUND BIOMASS (G/M²) FOR 30-40 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT HELVON-GROUND BIOMASS SAMPLING ON SITE PANNEE, INT D FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M ²)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
144	12	134.36	16.49	2.21	101.98	174.74
187	12	125.81	17.50	2.21	97.20	174.43
227	12	100.00	53.17	2.21	42.69	277.32

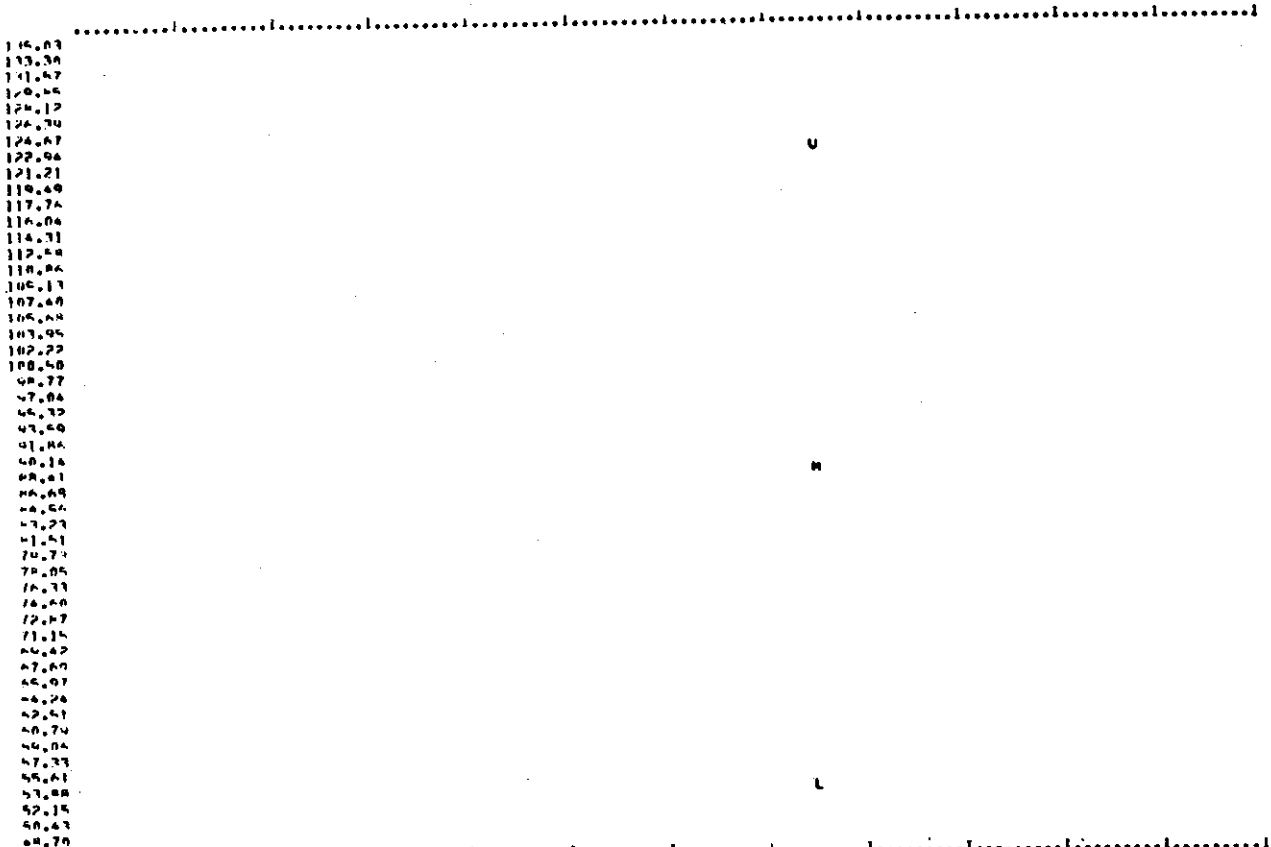


1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

THIS DATA INCLUDE MOIST MATERIAL ONLY

THESE DATA REPRESENT PELLET-GROUND BIOMASS SAMPLING ON SITE PAWNEE, TMT U FOR 1972 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
227	12	171.00	41.87	2.21	78.00	203.42



1.0 11.0 21.0 31.0 41.0 51.0 61.0 71.0 81.0 91.0 101.0 111.0 121.0 131.0 141.0 151.0 161.0 171.0 181.0 191.0 201.0 211.0 221.0 231.0 241.0 251.0 261.0 271.0 281.0 291.0 301.0 311.0 321.0 331.0 341.0 351.0 361.0

ARIS LABELS FOR THIS PLOT ARE =
 A=ARIS# JULIAN DATE FOR 1972
 Y=ARIS# BELOW GROUND BIOMASS (G/M² SOI) FOR 50-60 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT ABOVE-GROUND BIOMASS SAMPLING ON SITE PANNEL INT D FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M ² SOI)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
227	11	88.43	15.34	2.24	54.11	122.75

508.51
508.68
552.85
545.81
537.20
428.38
521.48
513.72
505.08
408.87
498.26
482.42
476.50
466.76
458.94
451.11
443.29
434.44
427.47
418.81
411.98
404.14
396.33
388.50
380.67
372.84
364.82
357.20
349.37
341.54
333.72
325.89
318.04
310.24
302.41
294.59
286.76
278.93
271.11
263.28
255.45
247.67
239.80
231.97
224.14
216.32
208.50
200.67
192.84
185.02
177.19

.....
1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0
.....
X-AXIS=JULIAN DATE FOR 1972
Y-AXIS=BELOW GROUND BIOMASS (G/M SO) FOR 0- 8 CM DEPTH

THESE DATA INCLUDE CHOWN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRT E FOR 1972
(CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
04	36	312.01	32.57	2.00	247.51	378.11
124	36	379.84	28.85	2.00	313.00	428.69
145	36	408.71	37.47	2.00	333.58	483.84
164	36	368.41	35.69	2.00	288.86	431.95
184	36	319.85	31.18	2.00	256.70	381.48
207	36	363.48	45.54	2.00	272.37	454.98
228	36	428.48	48.86	2.00	324.14	516.83
250	36	428.58	36.13	2.00	348.14	493.02
284	36	258.88	26.93	2.00	196.88	304.87

1774.71
 1744.28
 1734.82
 1714.37
 1664.91
 1674.45
 1654.88
 1633.54
 1613.89
 1557.67
 1577.14
 1551.72
 1531.27
 1510.81
 1448.34
 1440.90
 1440.44
 1426.99
 1408.57
 1388.88
 1387.62
 1367.17
 1324.71
 1304.25
 1284.80
 1244.34
 1244.89
 1274.47
 1203.94
 1173.52
 1143.87
 1142.61
 1122.15
 1101.70
 1081.24
 1060.70
 1040.37
 1010.88
 999.42
 978.97
 958.51
 938.05
 917.60
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 876.69
 856.23
 835.78
 815.32
 794.87
 774.41
 753.95

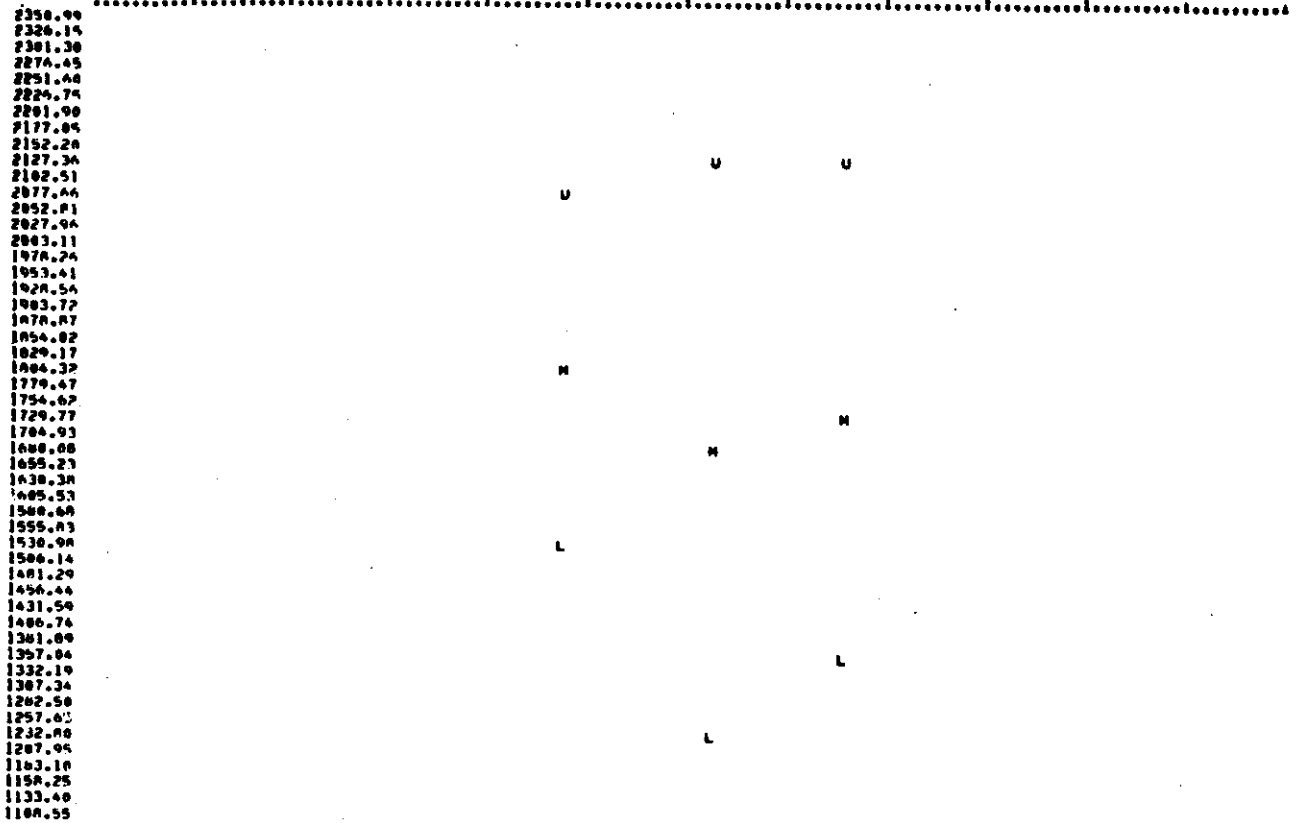
1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=NELOW GROUND BIOMASS (G/M SO) FOR 0- 10 CM DEPTH

THESE DATA INCLUDE CHURN MATERIAL

THESE DATA REPRESENT NELOW-GROUND BIOMASS SAMPLING ON SITE PAMWEL TRT E FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
94	36	948.27	71.04	2.00	842.05	1129.89
124	36	1032.55	60.04	2.00	912.18	1152.92
145	36	1272.78	78.07	2.00	1116.27	1429.30
166	36	999.35	66.74	2.00	865.44	1133.26
188	36	1142.11	63.22	2.00	1015.36	1268.86
207	36	1091.21	67.34	2.00	916.01	1266.42
224	36	1419.66	97.66	2.00	1223.71	1615.21
240	36	1301.85	65.34	2.00	1170.75	1432.94
264	36	943.96	52.94	2.00	837.73	1050.19



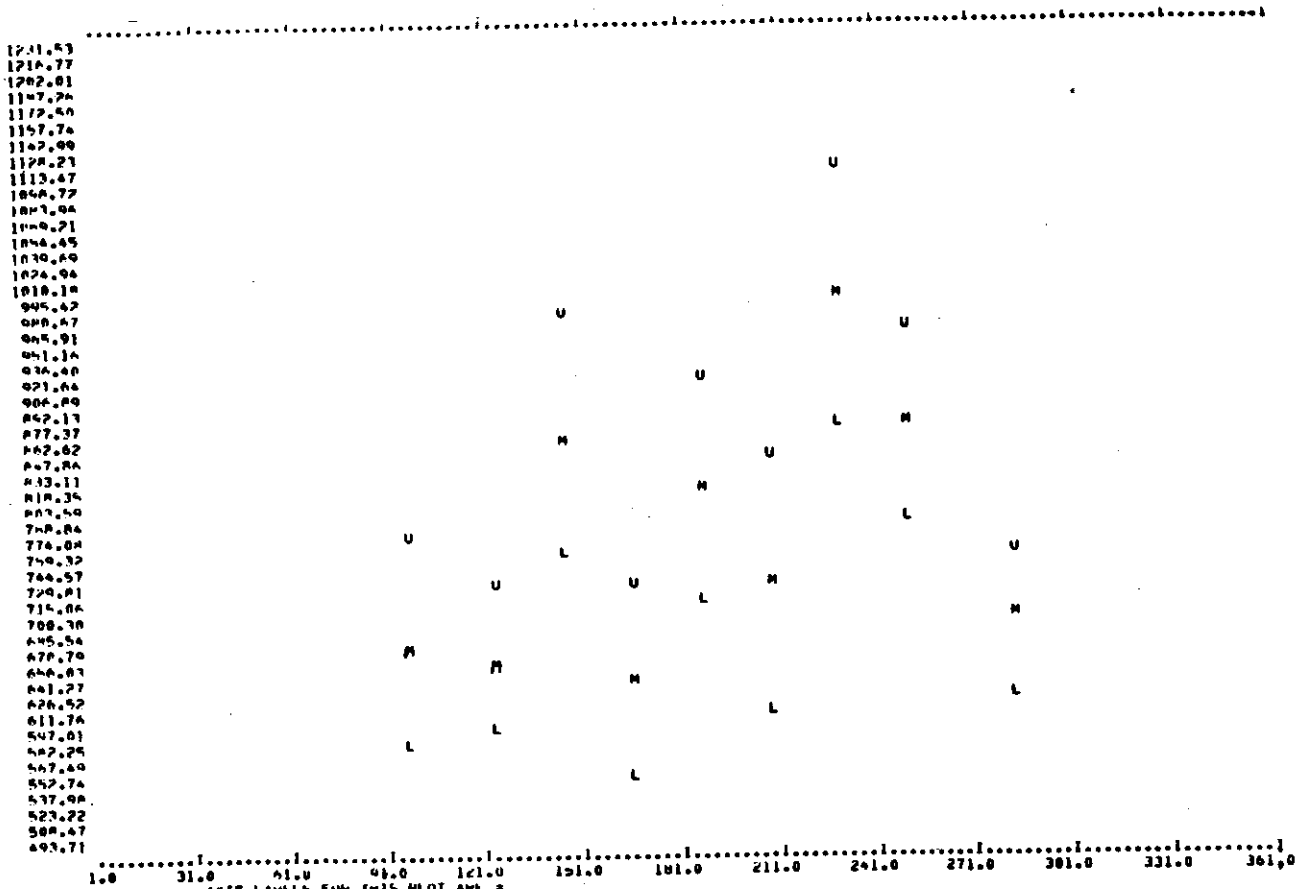
1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M²) FOR 0- 30 CM DEPTH

THESE DATA INCLUDE CHOWN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRT E FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M ²)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
146	12	1411.40	125.04	2.21	1535.41	2087.39
189	12	1644.50	205.21	2.21	1231.73	2137.27
226	12	1735.85	174.72	2.21	1350.34	2141.36



THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT FIELD-GROUND BIOMASS SAMPLING ON SITE PANNEL: TRT E FOR 1972
(CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TCL VALUE	LOWER LIMIT	UPPER LIMIT
06	36	673.47	47.16	2.00	578.93	768.00
124	36	661.71	35.39	2.00	590.76	732.66
144	36	666.07	54.92	2.00	753.98	974.17
166	36	676.95	65.08	2.00	548.57	729.32
188	36	623.06	51.05	2.00	720.71	925.41
207	36	727.44	57.01	2.00	613.25	841.83
228	36	698.96	60.15	2.00	878.38	1119.57
250	36	681.27	42.00	2.00	795.48	967.07
264	36	693.06	35.18	2.00	622.55	763.61

2883.04
 1978.98
 1954.91
 1930.84
 1906.77
 1882.71
 1858.64
 1834.57
 1810.51
 1786.44
 1762.37
 1738.30
 1714.23
 1690.17
 1666.10
 1642.03
 1617.96
 1593.89
 1569.83
 1545.76
 1521.69
 1497.62
 1473.55
 1449.49
 1425.42
 1401.35
 1377.28
 1353.21
 1329.14
 1305.08
 1281.01
 1256.94
 1232.87
 1208.81
 1184.74
 1160.67
 1136.60
 1112.54
 1088.47
 1064.40
 1040.33
 1016.26
 992.20
 968.13
 944.06
 919.99
 895.92
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 847.79
 823.72
 799.65

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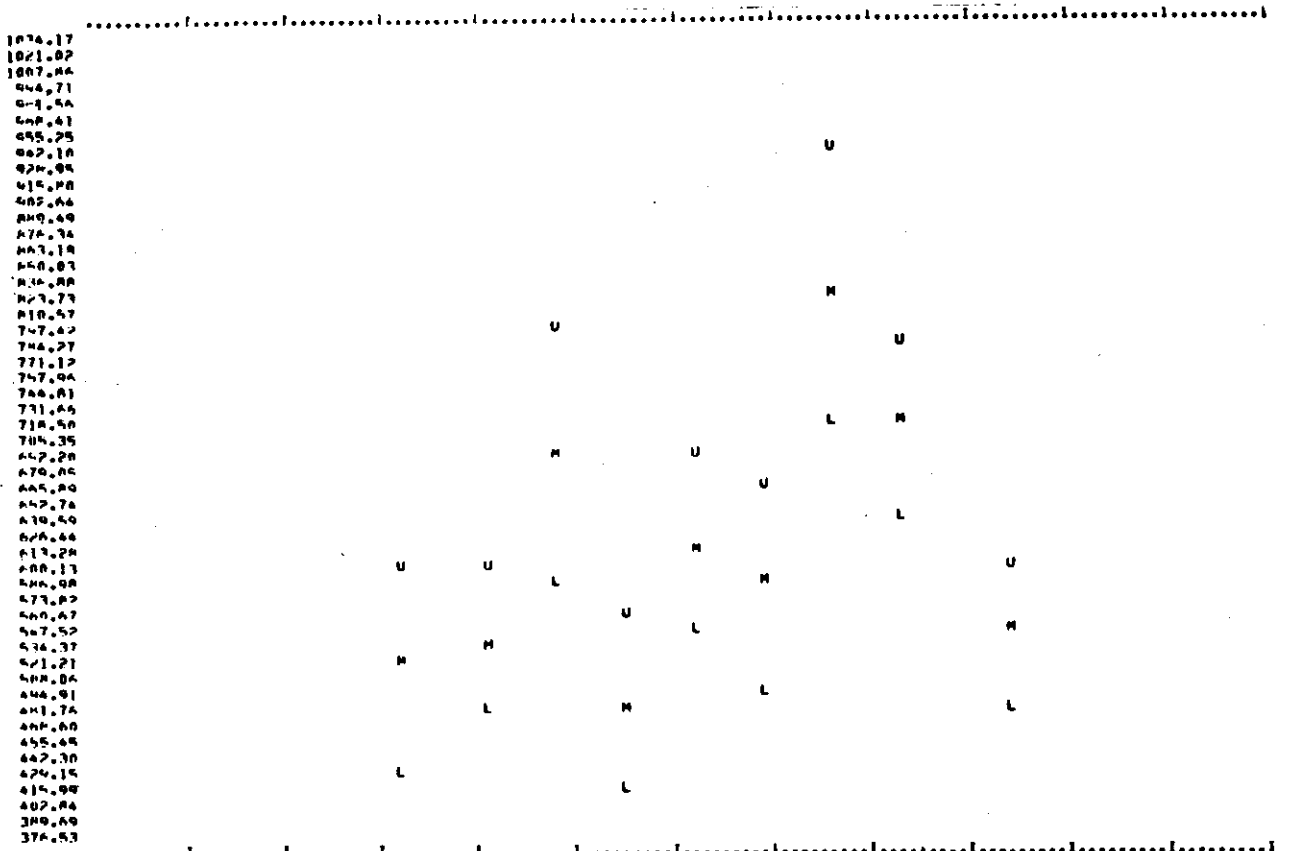
1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M²) FOR 0-30 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEL TRT E FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M ²)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
146	12	1332.23	93.44	2.21	1126.08	1538.39
189	12	1354.73	211.31	2.21	888.50	1820.95
228	12	1378.58	132.98	2.21	1085.89	1671.98



1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SOIL) FOR 0- 5 CM DEPTH

THESE DATA INCLUDE MOOI MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE FAWNEE, TRT E FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SOIL)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
46	36	516.66	41.45	2.00	433.37	599.56
124	36	534.60	31.88	2.00	475.68	603.52
145	36	696.02	52.88	2.00	590.68	802.04
166	36	447.73	34.60	2.00	418.37	557.09
198	36	616.72	34.78	2.00	548.99	688.45
207	36	440.60	44.72	2.00	490.94	670.26
224	36	427.53	56.18	2.00	714.90	948.15
240	36	715.03	37.76	2.00	639.32	798.74
246	36	541.93	28.44	2.00	484.92	598.94

244.17
 247.37
 278.47
 278.77
 278.97
 287.17
 283.37
 254.57
 255.77
 261.97
 248.1A
 248.3A
 248.5A
 238.7A
 237.9A
 229.1A
 229.3A
 221.6A
 217.7A
 213.9A
 213.1A
 206.3A
 202.5A
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 191.1A
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 115.1A
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 99.9A
 96.1A

1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=MELOW GROUND BIOMASS (G/M SO) FOR 5- 10 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT MELOW-GROUND BIOMASS SAMPLING ON SITE. SAMPLE, TRT E FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
96	36	157.00	11.65	2.00	133.68	180.32
124	36	122.11	7.62	2.00	106.82	137.39
145	36	168.05	14.91	2.00	138.16	197.94
166	36	151.22	17.71	2.00	115.71	186.73
188	36	204.35	27.06	2.00	148.54	260.16
207	36	146.94	16.92	2.00	113.03	180.86
228	36	171.45	11.97	2.00	147.46	195.44
250	36	166.24	12.54	2.00	141.10	191.39
284	36	151.15	12.44	2.00	126.22	176.09

307.33
 301.00
 374.04
 320.18
 323.04
 318.11
 312.27
 304.47
 308.58
 294.74
 298.80
 293.89
 277.21
 271.34
 265.52
 250.67
 243.87
 247.90
 242.14
 236.30
 230.45
 224.61
 218.77
 212.92
 207.08
 201.23
 195.39
 189.54
 183.70
 177.84
 172.01
 166.17
 160.33
 154.49
 148.64
 142.79
 136.95
 131.11
 125.26
 119.42
 113.58
 107.73
 101.89
 96.04
 90.20
 84.34
 78.49
 72.63
 66.79
 60.94
 55.10

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 1.0 11.0 21.0 31.0 41.0 51.0 61.0 71.0 81.0 91.0 101.0 111.0 121.0 131.0 141.0 151.0 161.0 171.0 181.0 191.0 201.0 211.0 221.0 231.0 241.0 251.0 261.0 271.0 281.0 291.0 301.0 311.0 321.0 331.0 341.0 351.0 361.0
 X-AXIS: JULIAN DATE FOR 1972
 Y-AXIS: FLOW THROUGH BIOMASS (G/N SQ) FOR 30-40 CM DEPTH

THESE DATA INCLUDE MOOI MATERIAL ONLY

THESE DATA REPRESENT FLOW-THROUGH BIOMASS SAMPLING ON SITE PARCEL TRT 6 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/N SQ)	STANDARD DEVIATION	TSE VALUE	LOWER LIMIT	UPPER LIMIT
144	12	280.32	37.87	2.21	116.78	283.87
189	12	189.29	27.32	2.21	62.62	315.76
229	12	182.71	18.78	2.21	61.28	144.15

104.85
 107.84
 101.62
 100.21
 98.78
 97.38
 95.94
 94.54
 93.13
 91.72
 90.31
 88.90
 87.48
 86.06
 84.64
 83.23
 81.82
 80.40
 78.99
 77.57
 76.16
 74.74
 73.33
 71.91
 70.50
 69.08
 67.67
 66.24
 64.84
 63.42
 62.01
 60.60
 59.18
 57.77
 56.35
 54.94
 53.52
 52.11
 50.69
 49.28
 47.86
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 42.20
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 36.54
 35.13
 33.71

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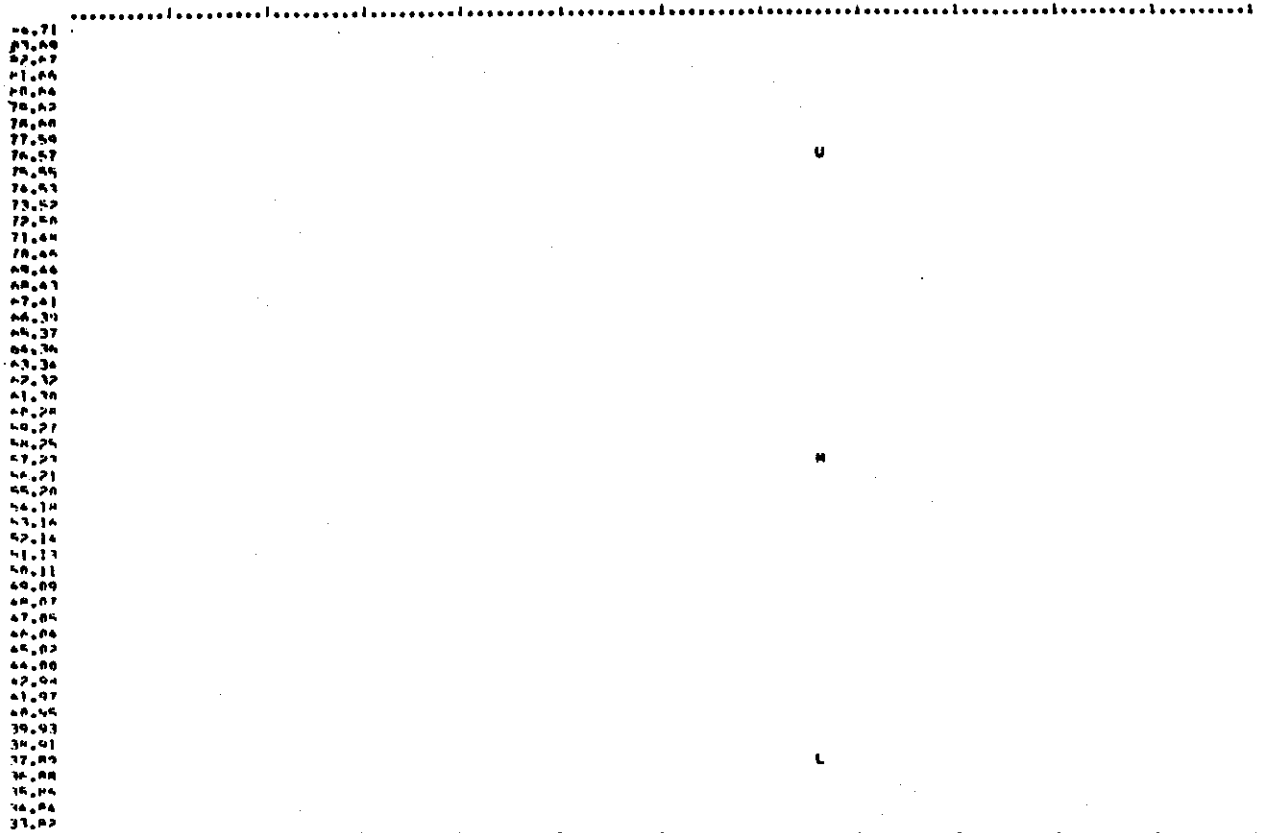
1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SO) FOR 40-50 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAVNLEE, TRY C FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
224	12	66.21	13.03	2.21	37.46	94.96



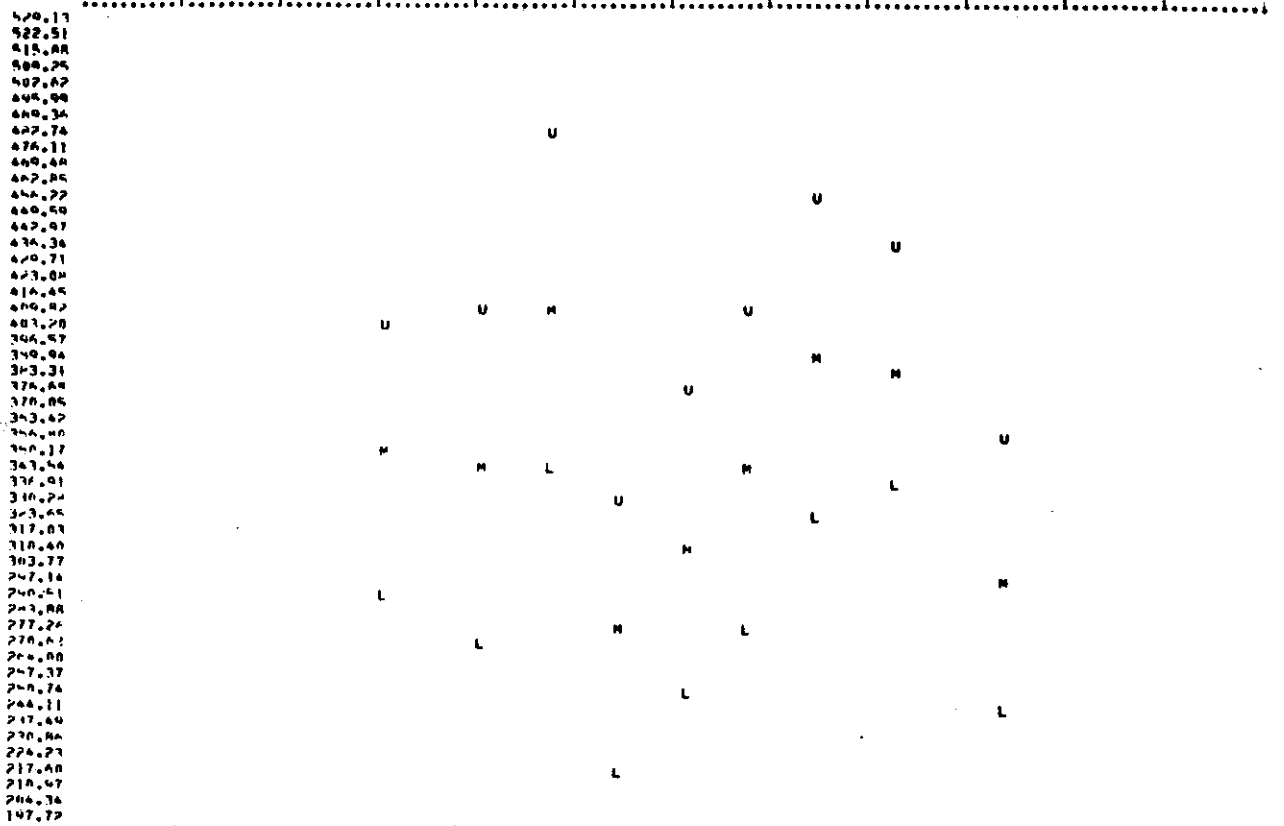
1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=RELLOW GROUND BIOMASS (G/M SO) FOR 50-60 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT RELLOW-GROUND BIOMASS SAMPLING ON SITE PAWNEE, TMT E FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
229	12	57.30	4.93	2.21	37.58	77.01



AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=RELUX GROUND BIOMASS (G/M SW) FOR 0- 0 CM DEPTH

THESE DATA INCLUDE CHURN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE. TRT F FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SW)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
94	36	347.70	27.77	2.00	292.02	403.30
123	36	341.98	34.17	2.00	273.47	410.50
145	36	411.02	34.92	2.00	341.01	481.03
165	36	275.65	27.92	2.00	219.60	331.61
197	36	312.35	31.99	2.00	248.21	376.49
206	36	342.30	32.89	2.00	276.36	408.24
227	36	390.83	31.82	2.00	326.84	454.42
249	36	386.99	24.60	2.00	335.60	434.30
283	36	260.42	28.90	2.00	241.49	357.35

2217.14
 2191.48
 2165.02
 2140.14
 2114.51
 2088.04
 2063.10
 2037.53
 2011.87
 1986.22
 1960.56
 1934.90
 1909.24
 1883.58
 1857.92
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 1729.63
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 1550.02
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 1421.73
 1396.08
 1370.42
 1344.76
 1319.10
 1293.44
 1267.78
 1242.13
 1216.47
 1190.81
 1165.15
 1139.49
 1113.83
 1088.18
 1062.52
 1036.86
 1011.20
 985.54
 959.88
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1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

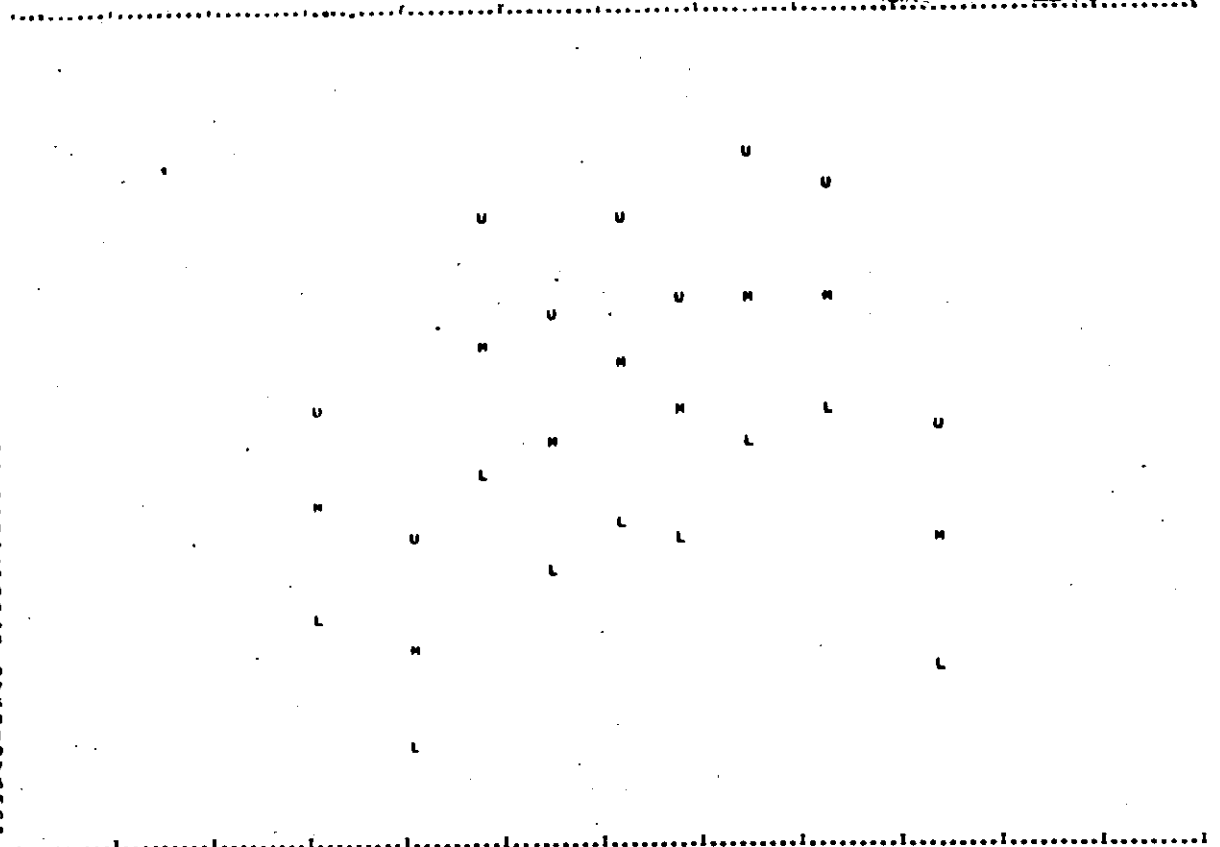
AXIS LABELS FOR THIS PLOT ARE -
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M²) FOR 0-30 CM DEPTH

THESE DATA INCLUDE CROWN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNING, TRT F FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M ²)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
144	12	1740.09	121.70	2.21	1478.19	2015.50
187	12	1488.20	107.77	2.21	1038.03	1778.38
227	12	1599.01	102.09	2.21	1196.09	2003.14

474.27
 440.71
 440.19
 438.47
 425.14
 417.47
 407.18
 394.48
 386.06
 376.54
 364.82
 354.58
 343.98
 332.44
 327.94
 317.42
 301.89
 291.37
 288.04
 278.33
 260.81
 240.29
 230.77
 220.24
 217.73
 207.21
 194.09
 184.14
 174.64
 164.12
 154.60
 144.88
 133.54
 123.04
 112.42
 102.88
 91.44
 80.04
 70.47
 54.01
 44.39
 33.87
 22.34
 17.83
 07.31
 04.79
 04.27
 04.75
 04.23
 04.70
 04.18



1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SOIL) FOR 0-10 CM DEPTH
 THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANOLE, TRT F FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
64	36	650.43	34.32	2.00	582.02	714.64
123	36	564.75	35.52	2.00	493.54	635.97
145	36	757.80	40.37	2.00	674.86	840.73
145	36	699.18	40.89	2.00	617.38	780.98
147	36	746.86	38.97	2.00	643.89	848.22
204	36	714.84	38.97	2.00	634.91	792.77
227	36	787.41	47.19	2.00	692.88	882.83
240	36	788.84	36.18	2.00	716.31	861.37
283	36	632.28	38.89	2.00	554.32	710.24

1722.12
 1702.44
 1687.76
 1663.08
 1643.48
 1623.72
 1604.04
 1584.36
 1564.68
 1545.01
 1525.33
 1505.65
 1485.97
 1466.29
 1446.61
 1426.93
 1407.25
 1387.57
 1367.89
 1348.21
 1328.53
 1308.85
 1289.17
 1269.49
 1249.81
 1230.13
 1210.45
 1190.77
 1171.09
 1151.41
 1131.73
 1112.05
 1092.38
 1072.70
 1053.02
 1033.34
 1013.66
 993.98
 974.30
 954.62
 934.94
 915.26
 895.58
 875.90
 856.22
 836.54
 816.86
 797.18
 777.50
 757.82
 738.14

1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELLOW GROUND BIOMASS (G/M SQ) FOR 0- 30 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT HELD-GROUND BIOMASS SAMPLING ON SITE PAVNLE, TRT F FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
144	12	1244.38	91.64	2.21	1042.19	1446.57
187	12	1080.98	118.21	2.21	820.16	1341.80
227	12	1221.46	155.96	2.21	877.36	1565.56

434.83
 427.17
 414.32
 500.44
 500.00
 491.74
 482.88
 474.07
 465.17
 456.31
 447.45
 438.59
 429.74
 420.88
 412.02
 403.16
 394.30
 385.44
 376.58
 367.73
 358.87
 350.01
 341.15
 332.30
 323.44
 314.58
 305.72
 296.87
 288.01
 279.15
 270.29
 261.44
 252.58
 243.72
 234.86
 226.00
 217.15
 208.29
 199.43
 190.57
 181.71
 172.86
 164.00
 155.14
 146.28
 137.42
 128.57
 119.71
 110.85
 101.99
 93.13

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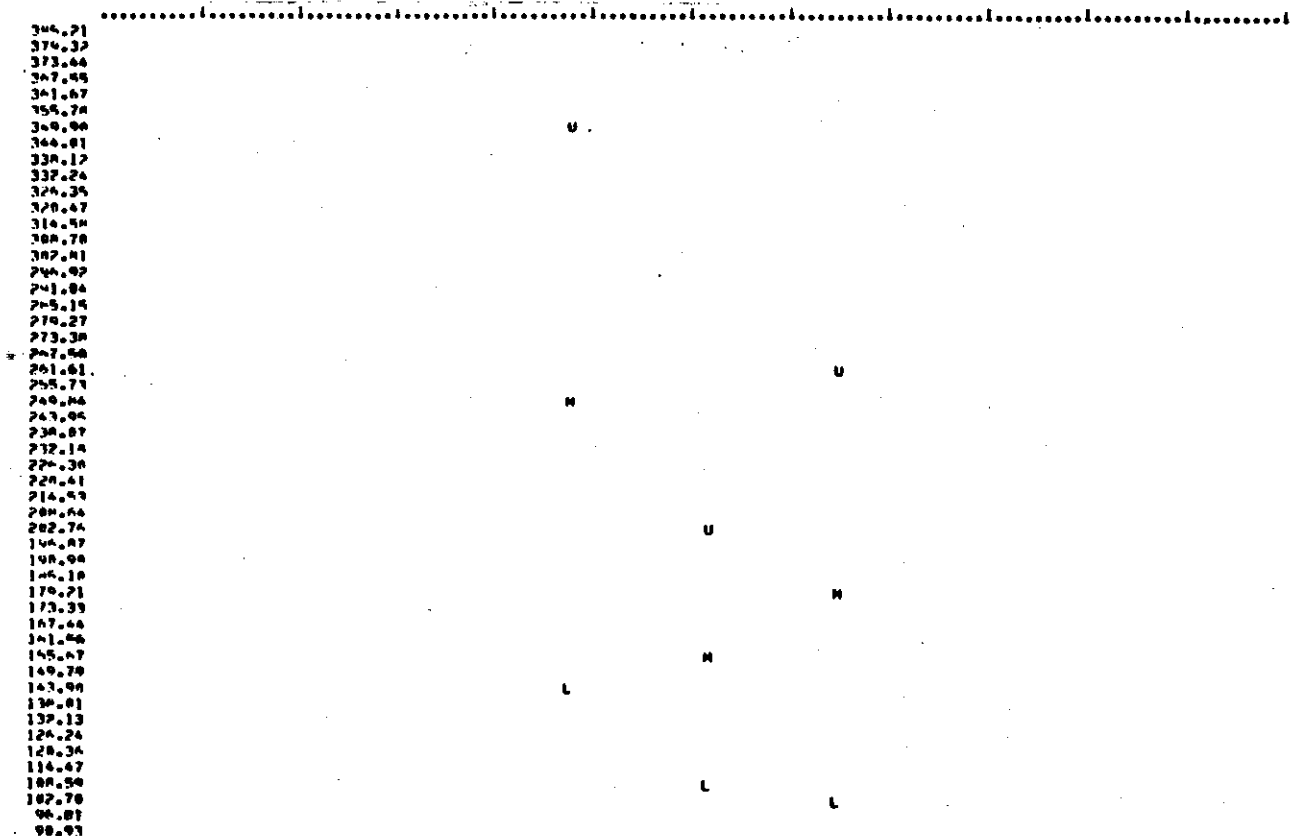
1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FROM THIS PLOT ARE:
 X-AXIS=JULIAN DATE FROM 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 10- 20 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNLE, TRT F FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
100	12	147.78	23.49	2.21	145.95	249.00
187	12	166.37	20.89	2.21	120.28	212.46
227	12	295.39	86.98	2.21	183.48	487.30



1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=WET GROUND BIOMASS (G/M SQ) FOR 20-30 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAVNCE. TRT F FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
146	12	248.28	46.19	2.21	148.37	358.19
187	12	156.61	29.64	2.21	111.67	202.15
227	12	188.36	35.96	2.21	101.83	259.72

447.00
 438.83
 426.87
 426.61
 417.16
 405.68
 398.22
 390.74
 383.30
 374.84
 366.38
 360.02
 353.46
 346.00
 340.44
 331.04
 323.42
 314.16
 308.60
 301.23
 293.77
 286.31
 278.85
 271.39
 263.93
 256.47
 248.01
 241.55
 234.09
 226.62
 218.16
 211.70
 204.24
 196.78
 190.32
 181.86
 174.40
 166.94
 159.48
 152.02
 144.56
 137.04
 129.53
 122.17
 114.71
 107.24
 99.79
 92.33
 84.87
 77.41
 69.94

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AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=66LUG GROUND BIOMASS (G/M SO) FOR 30-40 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT HFOU-GROUND BIOMASS SAMPLING ON SITE PANNEL, TRY F FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
166	12	240.22	73.05	2.21	77.72	402.72
187	12	148.54	22.04	2.21	99.92	197.17
227	12	147.22	21.08	2.21	119.39	215.05

200.00
197.50
195.00
192.50
190.00
187.50
185.00
182.50
180.00
177.50
175.00
172.50
170.00
167.50
165.00
162.50
160.00
157.50
155.00
152.50
150.00
147.50
145.00
142.50
140.00
137.50
135.00
132.50
130.00
127.50
125.00
122.50
120.00
117.50
115.00
112.50
110.00
107.50
105.00
102.50
100.00
97.50
95.00
92.50
90.00
87.50
85.00
82.50
80.00

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1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE:
X-AXIS=JULIAN DATE FOR 1972
Y-AXIS=BELOW-GROUND BIOMASS (U/M SW) FOR 40-50 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAUNEE, TRT F FOR 1972
(CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (U/M SW)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
227	12	129.47	23.50	2.21	77.05	181.89

45.81
 46.29
 47.84
 41.27
 48.44
 49.48
 48.24
 47.02
 45.81
 44.40
 43.39
 42.18
 40.97
 39.76
 38.54
 37.33
 36.12
 34.91
 33.70
 32.49
 31.27
 30.06
 28.85
 27.64
 26.43
 25.21
 24.00
 22.79
 21.58
 20.37
 19.16
 17.94
 16.73
 15.52
 14.31
 13.10
 11.89
 10.67
 9.46
 8.25
 7.04
 5.83
 4.62
 3.40
 2.19
 0.98
 39.77
 38.54
 37.33
 36.12

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1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0
 AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=WETLOW (GROUND) BIOMASS (G/M²) FOR 50-60 CM DEPTH

THESE DATA INCLUDE WOOD MATERIAL ONLY
 THESE DATA REPRESENT WFLC-GONDURU BIOMASS SAMPLING ON SITE PAWNEE TRT F FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M ²)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
227	12	62.81	10.88	2.21	38.80	66.82

620.00
 610.00
 600.00
 590.00
 580.00
 570.00
 560.00
 550.00
 540.00
 530.00
 520.00
 510.00
 500.00
 490.00
 480.00
 470.00
 460.00
 450.00
 440.00
 430.00
 420.00
 410.00
 400.00
 390.00
 380.00
 370.00
 360.00
 350.00
 340.00
 330.00
 320.00
 310.00
 300.00
 290.00
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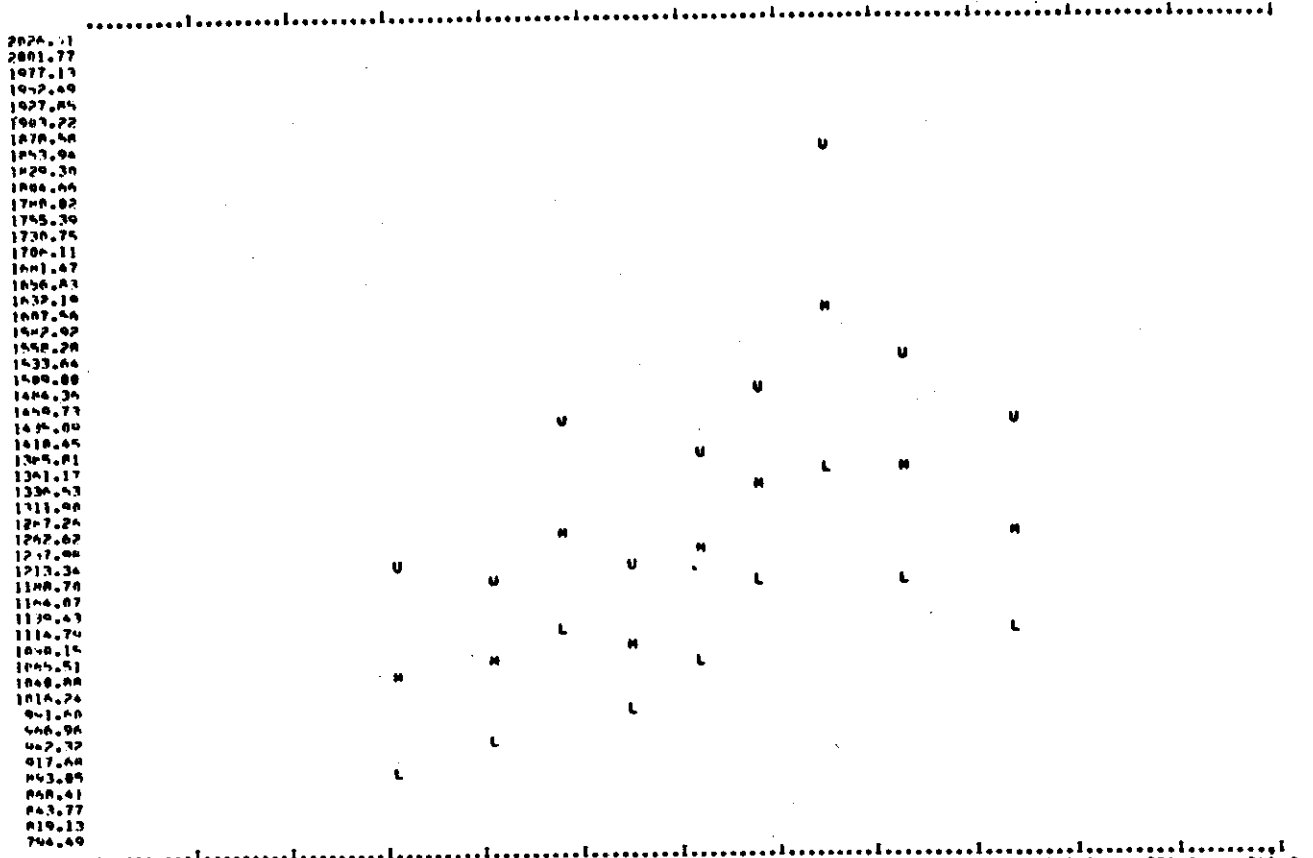
1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=MLLW (MOUND) HIGHNESS (b/m SU) FOR 0- 0 CM DEPTH

THESE DATA INCLUDE COMMON MATERIAL

THESE DATA REPRESENT MID-NOON HIGHNESS SAMPLING ON SITE FANEE, TRY 0, FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (b/m SU)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
95	30	261.19	33.14	2.00	194.65	327.72
123	30	314.67	31.17	2.00	250.98	361.67
144	30	468.89	33.14	2.00	374.30	567.44
146	30	374.70	36.74	2.00	313.01	436.47
188	30	368.17	36.28	2.00	291.59	444.75
206	30	457.11	45.28	2.00	366.34	547.88
227	30	517.09	55.83	2.00	409.17	624.62
258	30	429.43	42.22	2.00	341.79	511.66
293	30	341.92	35.27	2.00	271.21	412.63



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 1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

 XIS LABELS FOR THIS PLOT ARE =
 X=AXIS=JULIAN DATE FOR 1972
 Y=AXIS=MOISTURE BIOMASS (G/M SO) FOR 0-10 CM DEPTH

THESE DATA INCLUDE CHOWN MATERIAL

THESE DATA REPRESENT REPRESENTATIVE BIOMASS SAMPLING ON SITE PAUNEE TRT 6 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
95	36	1049.15	42.44	2.00	882.77	1215.53
123	36	1059.52	64.31	2.00	930.59	1188.46
144	36	1269.26	76.67	2.00	1115.55	1422.97
166	36	1099.39	53.57	2.00	992.60	1206.78
188	36	1225.43	70.22	2.00	1069.12	1382.73
208	36	1328.57	75.91	2.00	1176.39	1480.75
227	36	1601.22	120.29	2.00	1360.25	1842.19
250	36	1366.55	66.93	2.00	1192.26	1540.83
273	36	1267.58	66.64	2.00	1107.13	1428.64

3453.95
 3403.00
 3352.05
 3301.10
 3250.15
 3199.20
 3148.25
 3097.30
 3046.35
 2995.40
 2944.45
 2893.50
 2842.55
 2791.60
 2740.65
 2689.70
 2638.75
 2587.80
 2536.85
 2485.90
 2434.95
 2384.00
 2333.05
 2282.10
 2231.15
 2180.20
 2129.25
 2078.30
 2027.35
 1976.40
 1925.45
 1874.50
 1823.55
 1772.60
 1721.65
 1670.70
 1619.75
 1568.80
 1517.85
 1466.90
 1415.95
 1364.00
 1313.05
 1262.10
 1211.15
 1160.20
 1109.25
 1058.30
 1007.35
 956.40

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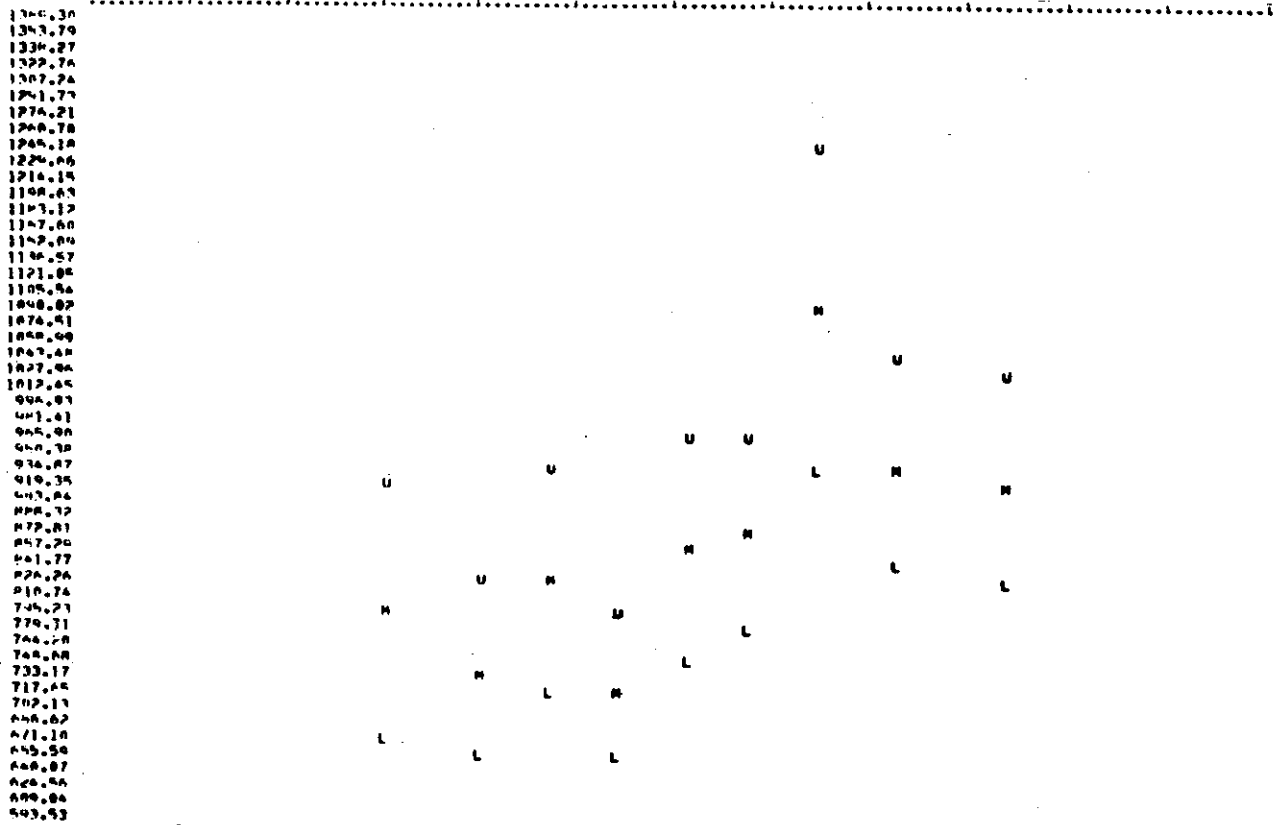
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 1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

 AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0-30 CM DEPTH

THESE DATA INCLUDE CHURN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRT G FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
146	12	1747.31	172.34	2.21	1367.05	2127.57
188	12	1486.83	171.09	2.21	1229.34	1984.32
227	12	2480.27	261.39	2.21	1638.77	3321.78

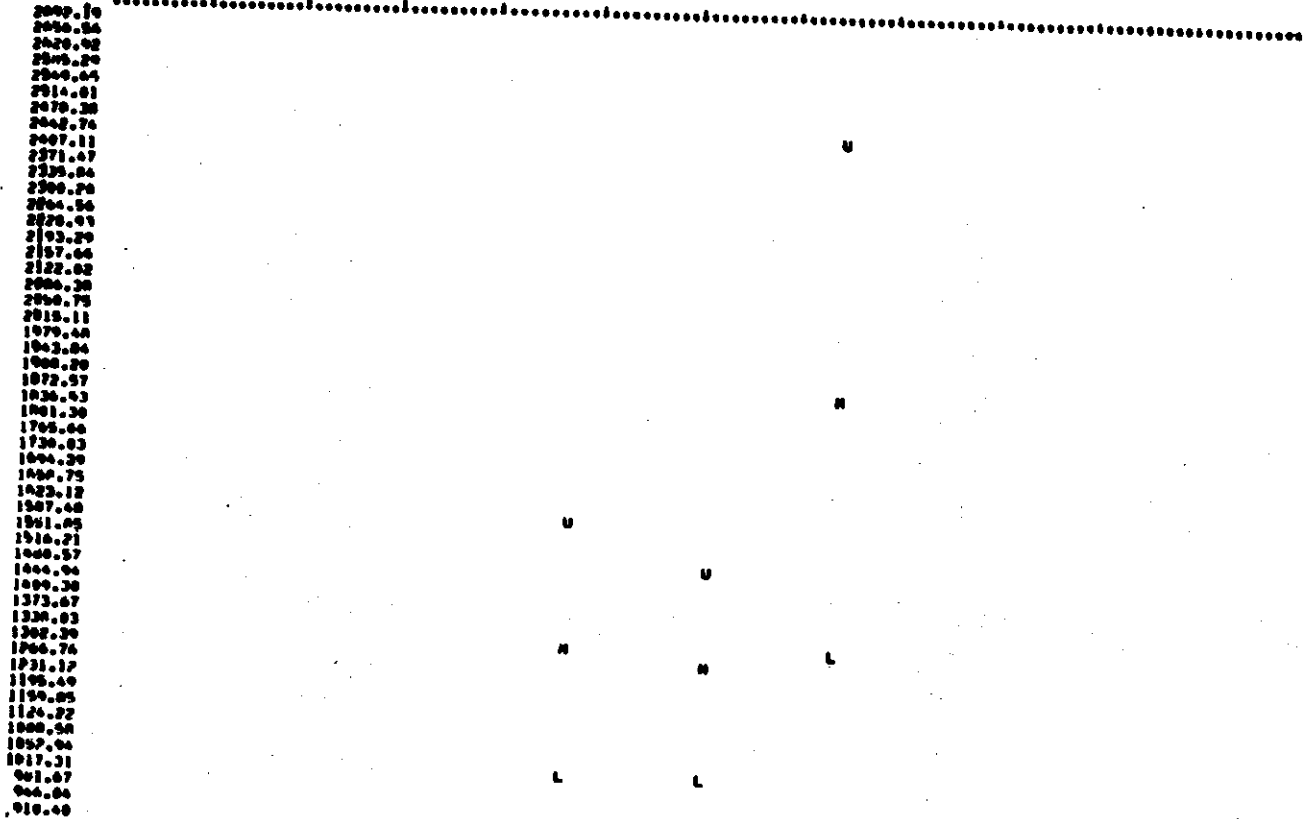


1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0-10 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE HAWAII, TRT 6 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
44	30	787.96	61.07	2.00	664.33	911.60
173	30	740.05	39.70	2.00	660.34	819.76
144	30	820.30	53.00	2.00	721.90	934.79
164	30	720.65	32.51	2.00	659.47	789.82
188	30	857.76	51.22	2.00	755.07	960.44
206	30	871.40	43.00	2.00	783.90	959.03
227	30	1009.12	77.00	2.00	933.43	1244.82
294	30	940.12	52.00	2.00	834.00	1045.05
293	30	925.66	50.00	2.00	825.26	1026.00

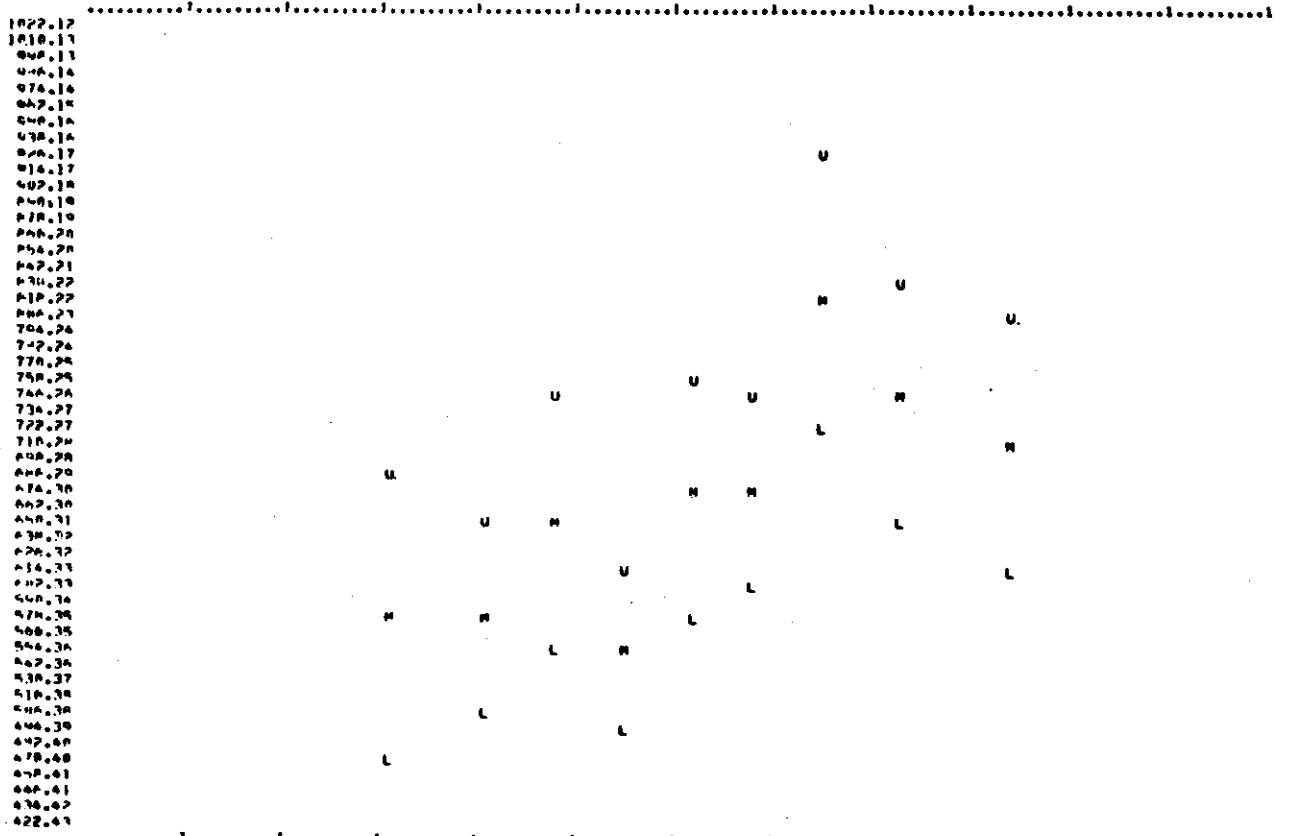


1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0
 AXIS LABELS FOR THIS PLOT ARE -
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW-GROUND BIOMASS (G/W SQ) FOR 0-30 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL) PANEL, TRI 6 FOR 1972

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/W SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
106	12	1297.43	129.57	2.21	1011.50	1583.31
188	12	1256.20	184.87	2.21	1026.67	1487.66
227	12	1076.76	250.65	2.21	1306.06	2007.65



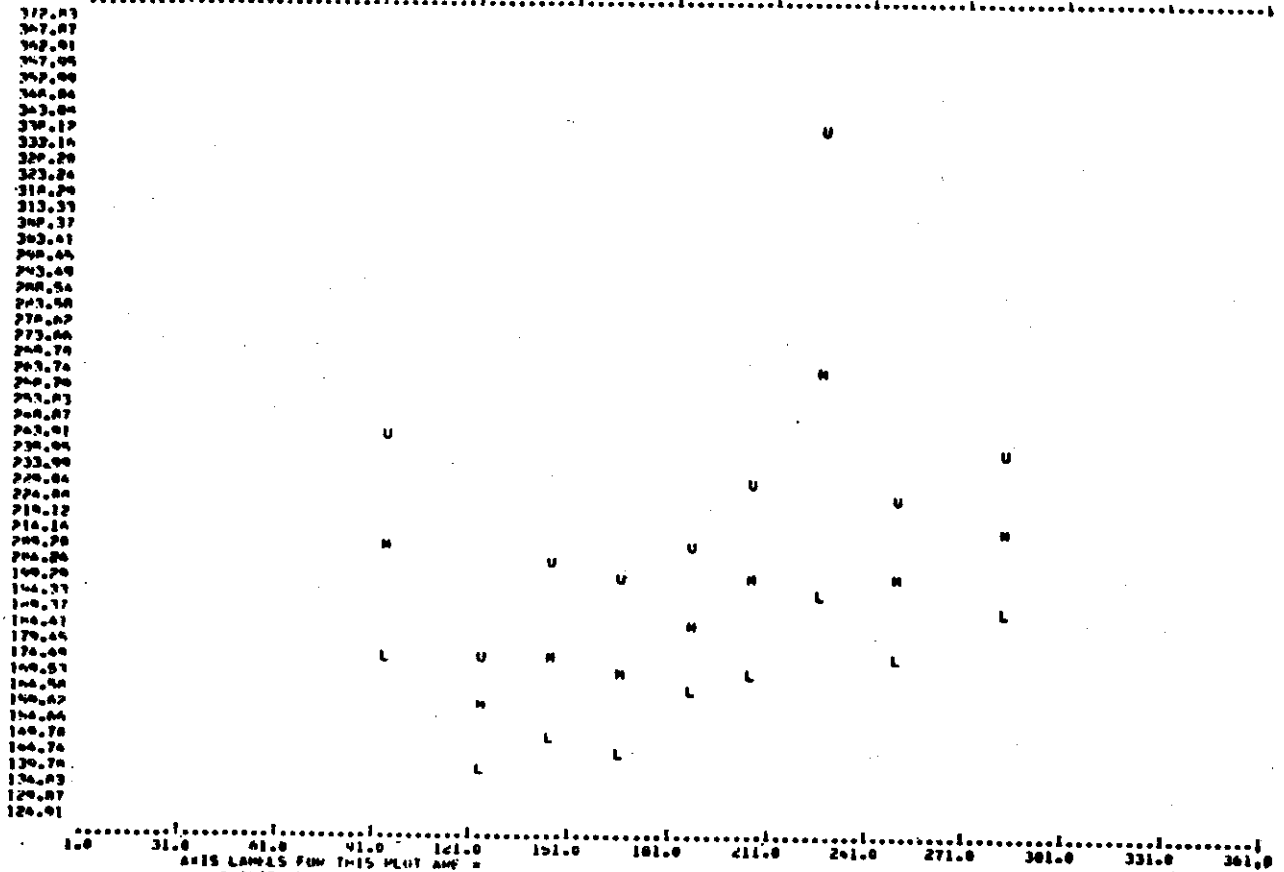
1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JANIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SOIL) FOR 0- 5 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAWNEE TRT 6 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JANIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SOIL)	STANDARD ERROR	TEL VALUE	LOWER LIMIT	UPPER LIMIT
94	36	577.54	53.98	2.00	449.36	685.80
123	36	547.36	36.14	2.00	509.82	654.98
144	36	457.31	46.67	2.00	550.75	745.87
144	36	452.88	28.42	2.00	495.71	609.45
144	36	471.45	46.17	2.00	578.89	764.02
244	36	477.54	37.84	2.00	596.72	748.45
227	36	423.72	52.86	2.00	717.24	929.20
250	36	741.41	45.13	2.00	651.34	832.29
253	36	719.31	45.54	2.00	618.92	801.71



1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE:
 X=AXIS=JULIAN DATE FOR 1972
 Y=BIOMASS BELOW GROUND BIOMASS (B/M SUI) FOR 5-10 CM DEPTH

THESE DATA INCLUDE POOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAMMEE, TRT G FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	SAMPLE SIZE	TREATMENT MEAN (B/M SUI)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
94	36	210.30	17.22	2.00	175.86	244.90
123	36	197.04	9.43	2.00	130.79	170.00
144	36	170.07	13.01	2.00	149.09	202.14
166	36	171.97	12.44	2.00	147.02	196.92
188	36	186.30	11.13	2.00	163.90	208.63
206	36	194.00	14.26	2.00	170.29	227.47
227	36	204.00	30.43	2.00	192.07	330.93
240	36	190.31	12.00	2.00	172.93	223.69
263	36	215.35	12.53	2.00	190.23	240.47

471.17
 466.14
 457.10
 450.21
 441.22
 430.23
 420.24
 422.25
 415.27
 400.28
 401.30
 394.31
 387.32
 380.34
 373.35
 366.36
 358.37
 352.39
 345.40
 338.41
 331.43
 324.44
 317.45
 310.47
 303.48
 296.49
 289.50
 282.52
 275.53
 268.54
 261.56
 254.57
 247.58
 240.59
 233.61
 226.62
 219.63
 212.65
 205.66
 198.67
 191.69
 184.70
 177.71
 170.72
 163.74
 156.75
 149.76
 142.78
 135.79
 128.80
 121.82

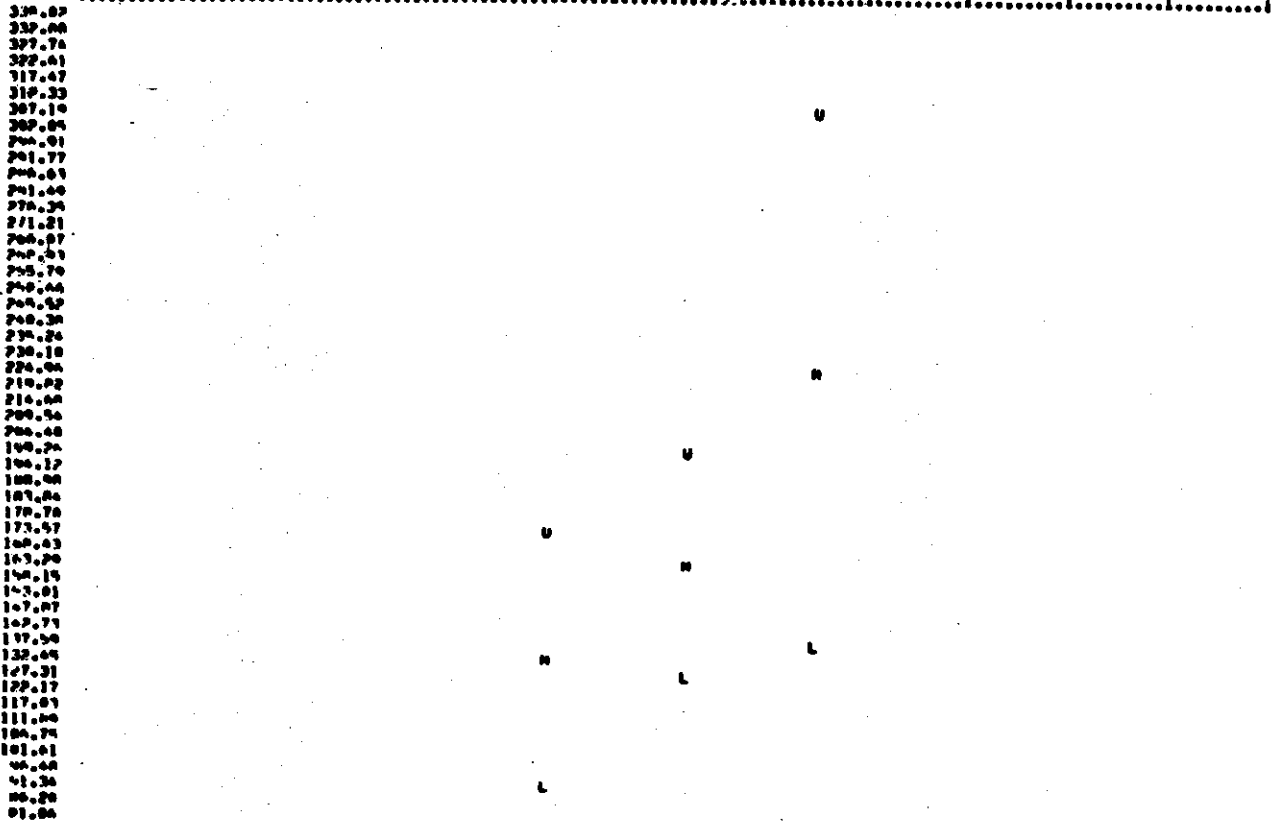
.....
 1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

 AXIS LABELS FOR THIS PLOT ARE
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SO) FOR 10-20 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEL TRI 6 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
166	12	183.77	21.95	2.21	138.35	232.19
198	12	244.89	27.84	2.21	183.47	306.30
227	12	329.95	40.40	2.21	223.87	428.33



.....
 1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 341.0
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW-GROUND BIOMASS (G/M SOIL) FOR 20-30 CM DEPTH
 THESE DATA INCLUDE MOIST MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAMPLE, TRT 6 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SOIL)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
100	12	132.00	19.30	2.21	90.00	175.62
100	12	162.50	19.50	2.21	120.15	196.95
227	12	223.67	37.00	2.21	140.00	307.20

246.74
245.84
241.00
237.90
236.12
234.73
244.54
242.74
238.97
236.10
231.00
227.02
223.83
220.84
216.74
212.47
208.00
204.00
201.12
197.33
193.54
189.74
185.67
182.10
178.00
174.41
170.83
167.84
163.74
159.67
155.67
151.00
147.11
143.73
140.44
136.74
132.97
129.12
125.49
121.61
117.83
114.04
110.24
106.47
102.67
98.90
95.11
91.32
87.54
83.74
79.97

1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE:
X-AXIS=JULIAN DATE FOR 1972
Y-AXIS=BELOW GROUND BIOMASS (G/M² SOI) FOR 30-40 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEL TRT G FOR 1972
(CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M ² SOI)	STANDARD ERROR	TRE VALUE	LOWER LIMIT	UPPER LIMIT
144	12	126.40	17.05	2.21	88.85	164.10
188	12	130.70	15.01	2.21	104.34	173.23
227	12	101.22	28.01	2.21	117.67	244.78

147.22
 146.76
 149.70
 148.81
 147.34
 146.00
 149.03
 148.04
 177.00
 174.83
 172.57
 170.10
 167.61
 165.17
 162.70
 160.26
 147.77
 144.30
 142.06
 140.37
 147.01
 144.66
 142.97
 140.41
 138.04
 136.50
 133.11
 130.44
 128.10
 126.71
 123.25
 120.70
 118.37
 115.08
 113.3-
 110.42
 108.64
 106.00
 103.42
 101.04
 98.00
 96.12
 93.66
 91.10
 88.72
 86.26
 83.70
 81.33
 78.86
 76.37
 73.91

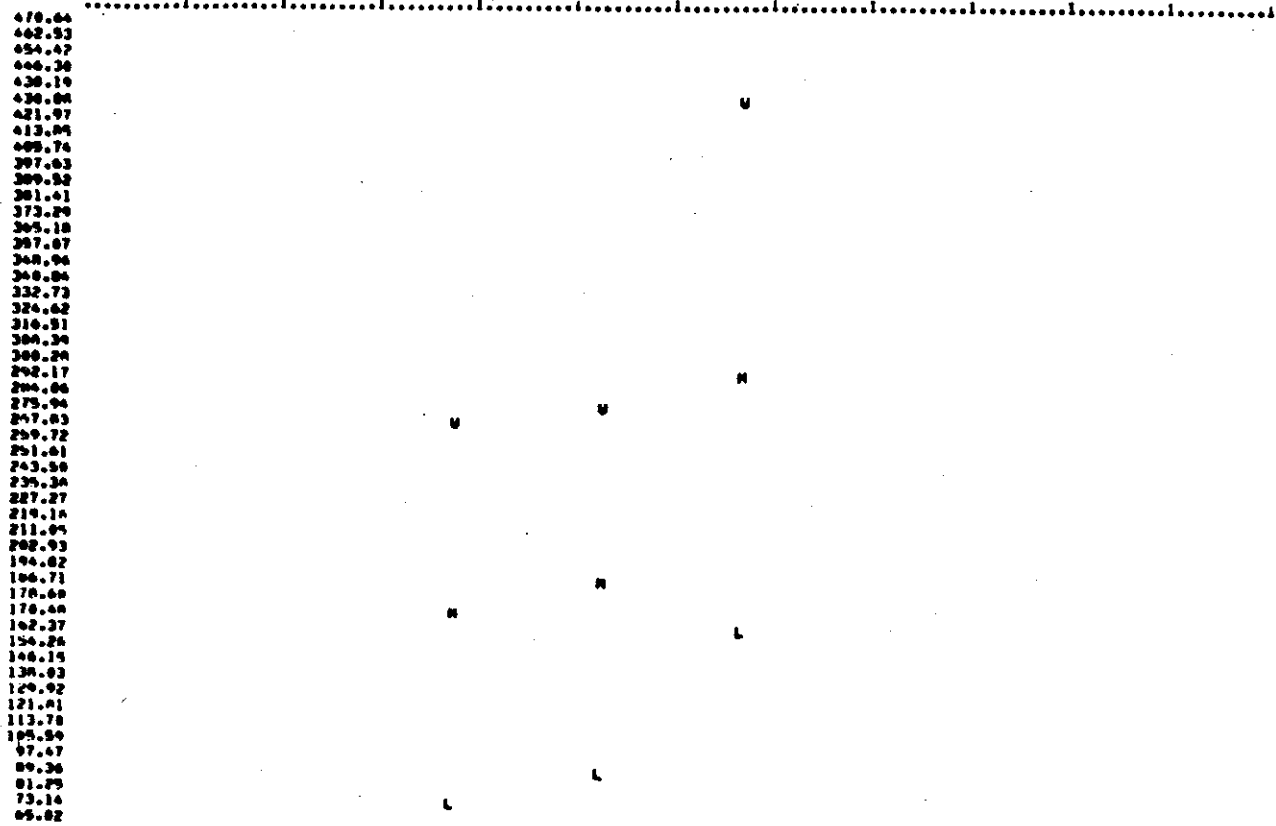
1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0
 AIRS SAMPLED FOR THIS REPORT
 REPRESENTATIVE DATE FOR 1972
 Y-AXIS: PLOTTED THROUGH BIOMASS (G/M²) FOR 40-50 CM DEPTH

THESE DATA INCLUDE ONLY MATERIAL ONLY
 THESE DATA REPRESENT FIELD-GROWN BIOMASS SAMPLING ON SITE (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL) PANEL: THT 6 FOR 1972

DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M ²)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
227	12	130.72	22.02	2.21	82.14	179.30

• 7.3.3 Treatments K, L, and M

The belowground herbage biomass sampling for treatments K, L, and M on the Pawnee Site for 1972 was sampled on each of three replicates for three dates during the season. Depth increments sampled were 0 to 5, 5 to 10, and at 10-cm increments thereafter down to 80 cm. The data set is very complete with the exception of the deepest segment. Crowns were reported in this data set as a 0 to 0 cm level, and the data were reported on an ash-free weight basis.



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 1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0
 AXIS LABELS FOR THIS PLOT ARE -
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW-GROUND BIOMASS (G/M SO) FOR 0- 0 CM DEPTH

THESE DATA INCLUDE CHOWN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAMMEE, TRI K FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
116	15	170.11	45.09	2.14	72.25	267.98
141	18	105.33	43.50	2.14	92.19	278.07
203	15	299.18	91.94	2.14	142.51	427.06

1269.95
 1252.27
 1234.59
 1216.91
 1199.23
 1181.56
 1163.88
 1146.20
 1128.52
 1110.84
 1093.16
 1075.49
 1057.81
 1040.13
 1022.45
 1004.77
 987.09
 969.42
 951.74
 934.06
 916.38
 898.70
 881.02
 863.35
 845.67
 827.99
 810.31
 792.63
 774.95
 757.27
 739.59
 721.92
 704.24
 686.56
 668.89
 651.21
 633.53
 615.85
 598.17
 580.49
 562.82
 545.14
 527.46
 509.78
 492.10
 474.42
 456.75
 439.07
 421.39
 403.71
 386.03

.....
 1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0
 AXIS LABELS FOR THIS PLOT ARE :
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0- 10 CM DEPTH

THESE DATA INCLUDE CHOWN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANMEE, TRT K FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
116	15	590.89	75.61	2.14	428.92	752.85
161	15	665.28	91.79	2.14	468.58	861.83
203	15	880.35	127.98	2.14	666.21	1154.58

1409.37
 1409.63
 1409.88
 1410.13
 1430.38
 1418.64
 1390.89
 1371.15
 1351.40
 1331.66
 1311.91
 1292.16
 1272.42
 1252.67
 1232.92
 1213.18
 1193.43
 1173.68
 1153.94
 1134.19
 1114.44
 1094.70
 1074.95
 1055.20
 1035.46
 1015.71
 995.97
 976.22
 956.47
 936.73
 916.98
 897.23
 877.49
 857.74
 837.99
 818.25
 798.50
 778.75
 759.01
 739.26
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 541.80
 522.05

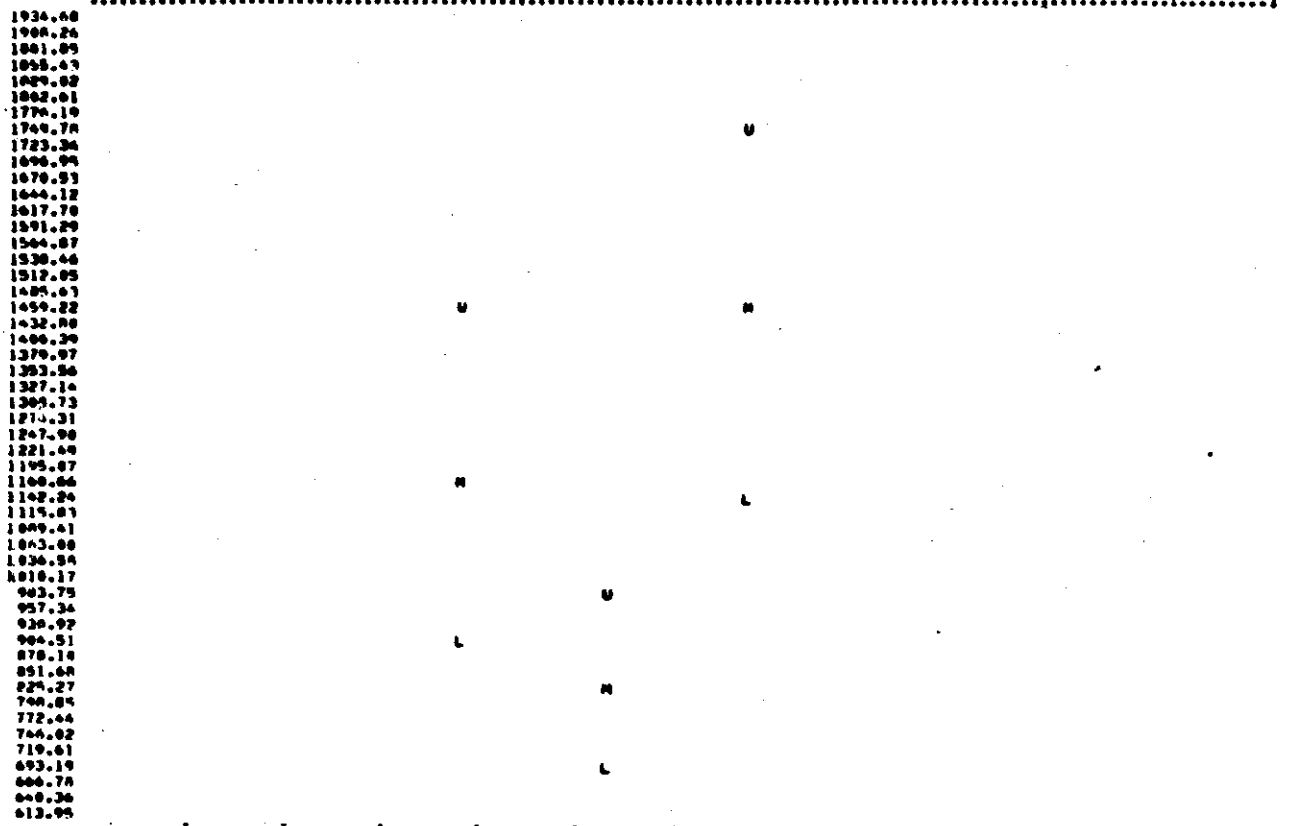
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 1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0- 30 CM DEPTH

THESE DATA INCLUDE CROWN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRY K FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TRE VALUE	LOWER LIMIT	UPPER LIMIT
116	15	757.71				
161	15	829.96	62.94	2.14	588.06	935.36
203	15	1076.22	94.71	2.14	821.81	1026.76
			149.96	2.14	768.27	1372.16



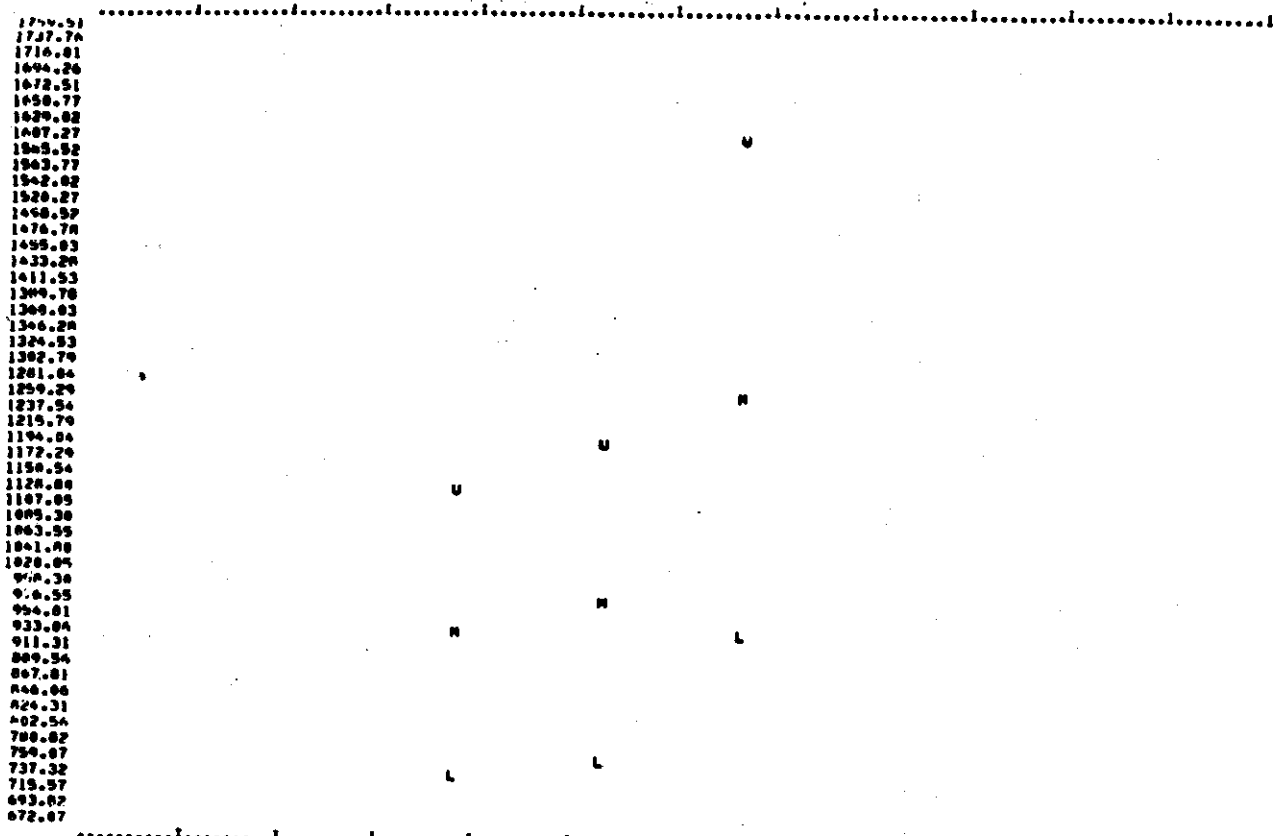
1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 341.0
 AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0- 60 CM DEPTH

THESE DATA INCLUDE CROWN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRT K FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
110	15					
161*	15	874.64	89.67	2.14	682.56	1066.72
203	15	936.31	97.94	2.14	726.52	1146.09
		1212.44	151.34	2.14	888.26	1536.61

*Sequence missing 5 cm of core length.



THESE DATA INCLUDE CROWN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRT K FOR 1972
(CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
116	15	949.81	99.60	2.14	746.75	1134.88
161	15	976.58	96.71	2.14	769.35	1183.65
203	15	1268.22	154.69	2.14	936.88	1599.55

818.14
808.01
797.87
787.74
777.60
767.47
757.33
747.20
737.06
726.93
716.79
706.66
696.52
686.39
676.26
666.17
655.99
645.85
635.72
625.58
615.45
605.31
595.18
585.04
574.91
564.77
554.64
544.51
534.37
524.24
514.10
503.97
493.83
483.70
473.56
463.43
453.29
443.16
433.02
422.89
412.75
402.62
392.49
382.35
372.22
362.09
351.95
341.81
331.68
321.54
311.41

1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

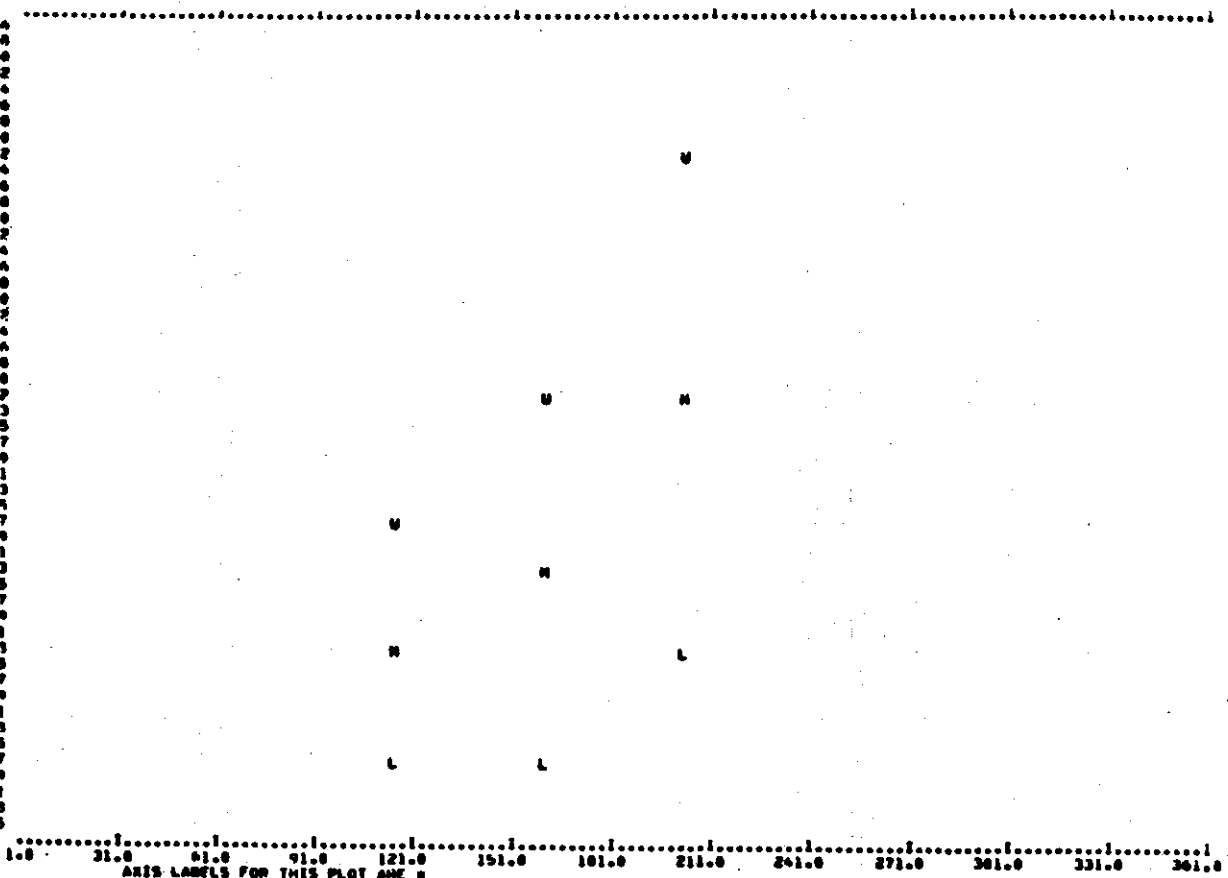
AXIS LABELS FOR THIS PLOT ARE:
X-AXIS=JULIAN DATE FOR 1972
Y-AXIS=BELOW GROUND BIOMASS (G/M² SO) FOR 0- 10 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANHEE, TRT K FOR 1972
(CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M ² SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
116	15	426.70	34.90	2.14	348.81	495.54
161	15	479.67	61.17	2.14	348.65	610.70
203	15	585.17	74.84	2.14	426.58	743.76

1857.84
 1845.68
 1833.50
 1821.32
 1809.14
 1800.96
 1804.78
 1772.60
 1660.42
 1648.24
 1636.06
 1623.88
 1611.70
 1600.52
 1587.34
 1575.16
 1562.98
 1550.80
 1538.62
 1526.44
 1514.26
 1502.08
 1489.90
 1477.72
 1465.54
 1453.36
 1441.18
 1429.00
 1416.82
 1404.64
 1392.46
 1380.28
 1368.10
 1355.92
 1343.74
 1331.56
 1319.38
 1307.20
 1295.02
 1282.84
 1270.66
 1258.48
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 1221.94
 1209.76
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 1185.40
 1173.22
 1161.04
 1148.86



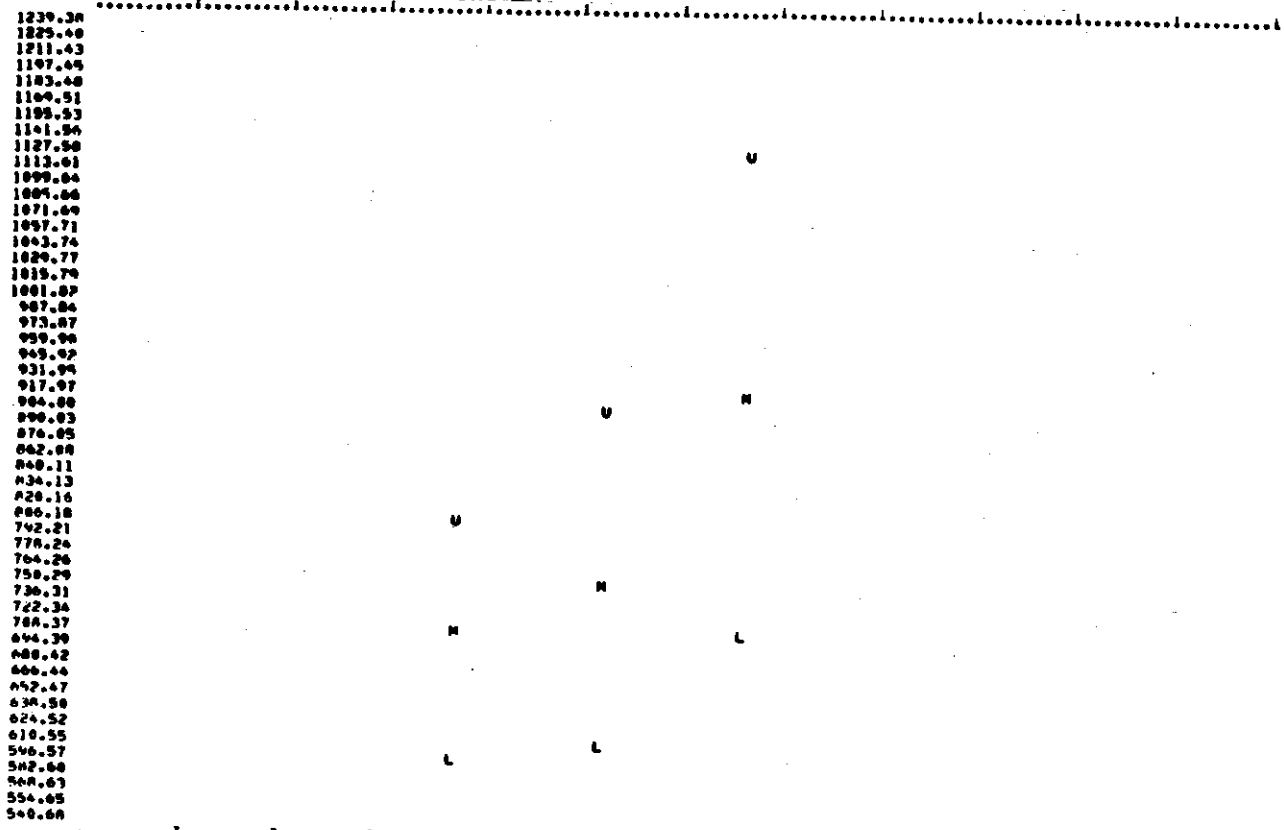
1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SO) FOR 0-30 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRY K FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
116	15	587.60	41.40	2.14		
161	15	630.25	64.94	2.14	498.72	676.47
203	15	779.03	87.14	3.14	588.37	777.68
						961.69



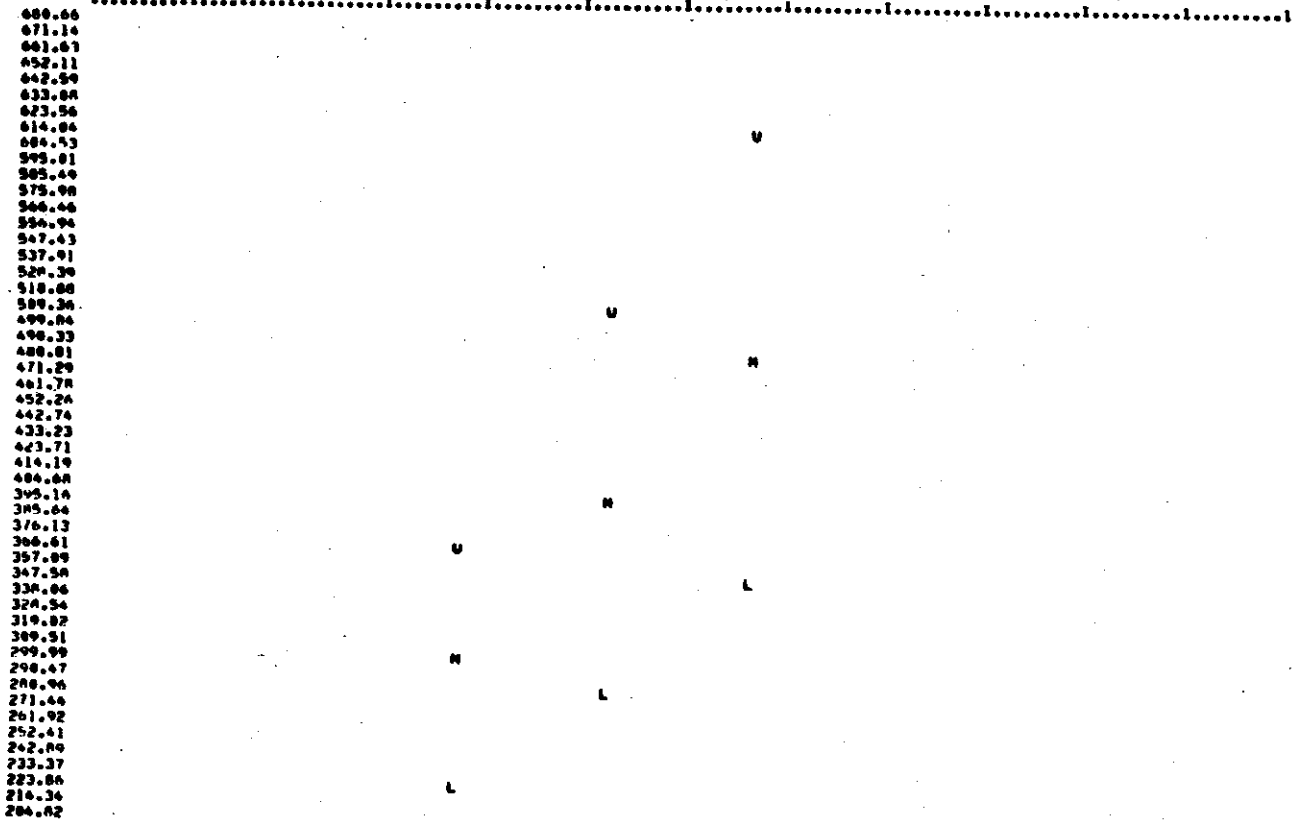
AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0- 60 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PALMEE, TRT K FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
116	15	784.53	48.45	2.14	600.75	808.30
161*	15	750.78	68.54	2.14	603.96	897.60
203	15	917.25	97.78	2.14	787.80	1126.78

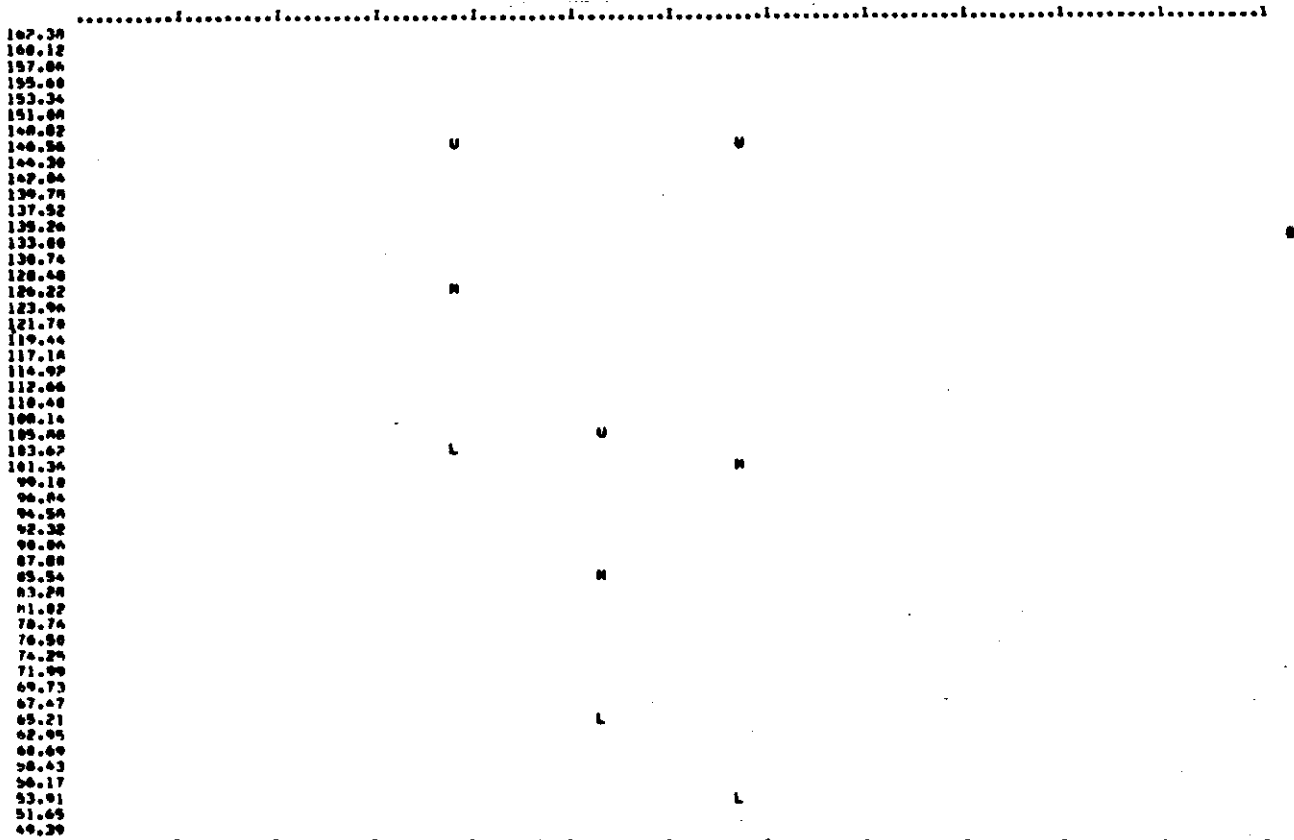
*Sequence missing 5 cm of core length.



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 AXIS LABELS FOR THIS PLOT ARE :
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0- 5 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY
 THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRY K FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
116	18	295.36	31.64	2.14		
161	18	394.44	54.78	2.14	227.58	363.13
203	18	484.78	62.60	2.14	277.88	511.01
					350.61	618.78



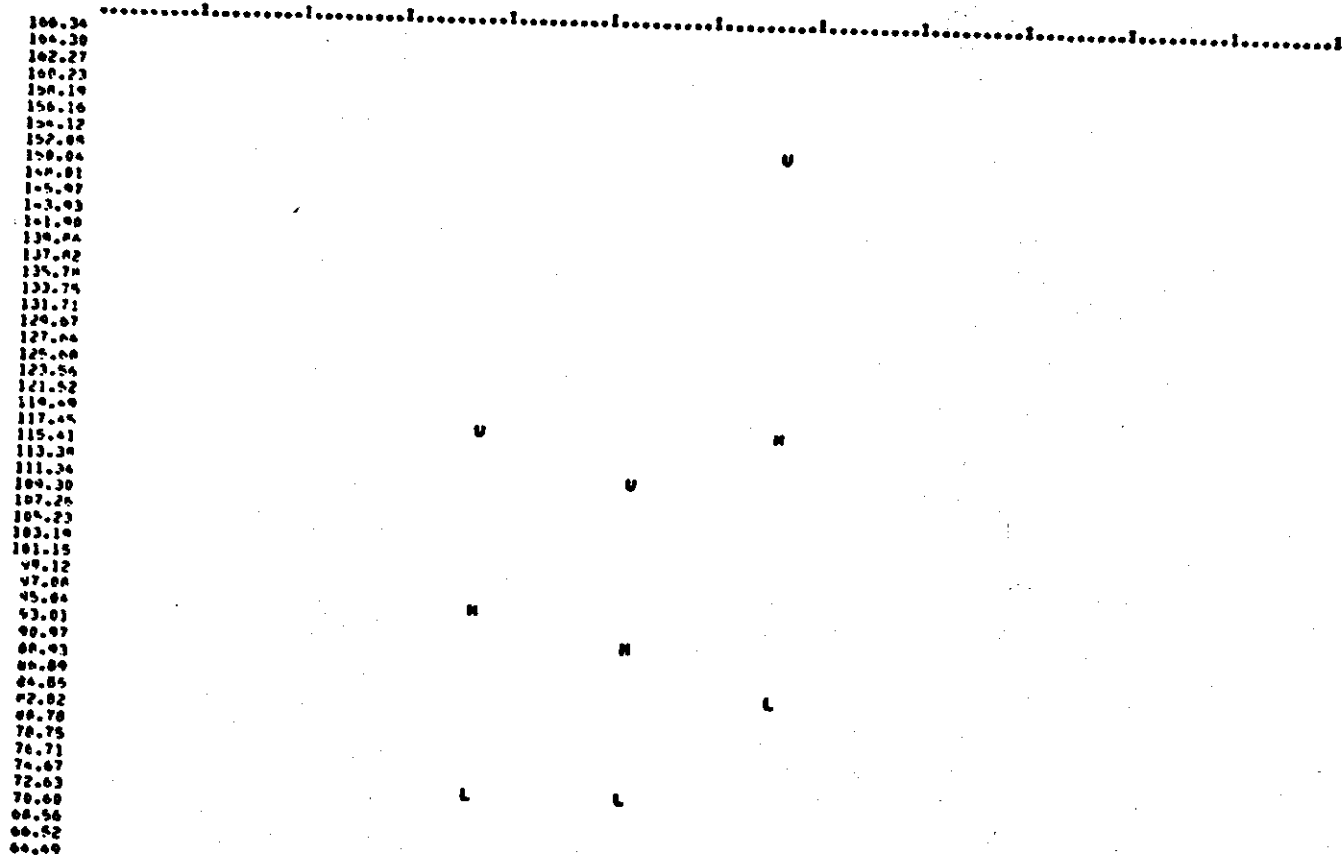
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AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0- 10 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE. TRT K FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
116	15	125.42	10.36	2.14	103.22	147.02
161	15	95.23	9.71	2.14	64.42	106.03
203	15	100.67	21.29	2.14	54.67	146.67



1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0
 XIS LABELS FOR THIS PLOT ARE •
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M²) FOR 10-20 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRT K FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M ²)	STANDARD ERROR	TEL VALUE	LOWER LIMIT	UPPER LIMIT
114	15	95.20	18.25	2.14	73.32	117.23
161	15	91.91	9.41	2.14	71.65	111.97
203	15	117.02	15.80	2.14	84.03	151.22

102.77
 101.63
 100.49
 99.34
 98.20
 97.05
 95.91
 94.76
 93.62
 92.47
 91.33
 90.19
 89.04
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 65.01
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 59.29
 58.15
 57.00
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 54.71
 53.57
 52.43
 51.29
 50.14
 48.99
 47.85
 46.70
 45.56

1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE -
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 20- 30 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRT K FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
116	15	71.54	7.75	2.14		
161	15	66.87	7.58	2.14	54.94	68.15
203	15	72.24	9.89	2.14	51.04	83.11
						93.43

07.11
06.22
05.32
04.41
03.54
02.64
01.75
00.86
99.96
99.07
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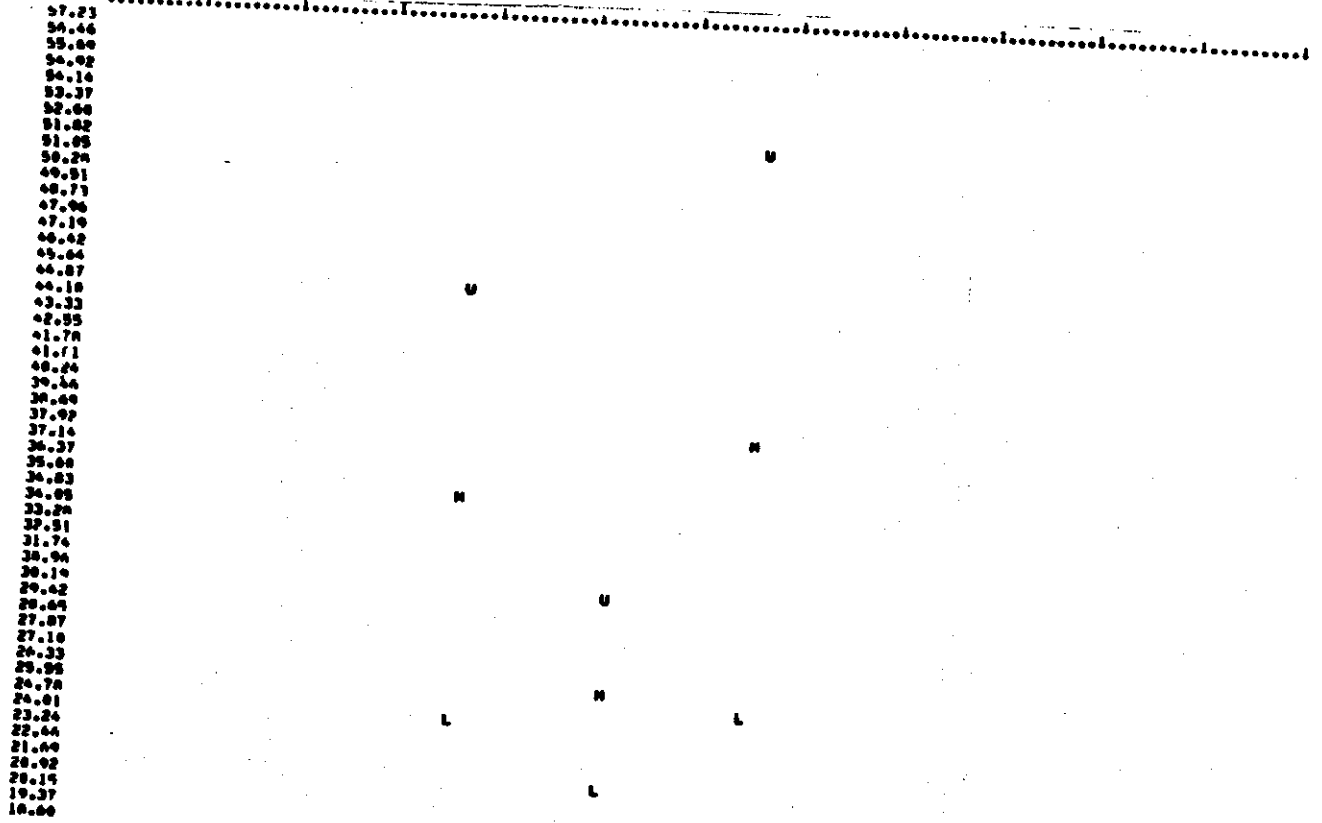
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AXIS LABELS FOR THIS PLOT ARE -
X-AXIS=JULIAN DATE FOR 1972
Y-AXIS=BELOW GROUND BIONASS (G/M SQ) FOR 40- 50 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIONASS SAMPLING ON SITE PANNEE, TRT K FOR 1972
(CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
110	15	30.46	4.59	2.14	28.62	48.36
181	15	32.74	3.84	2.14	24.95	40.53
293	15	47.98	6.88	2.14	34.96	61.01

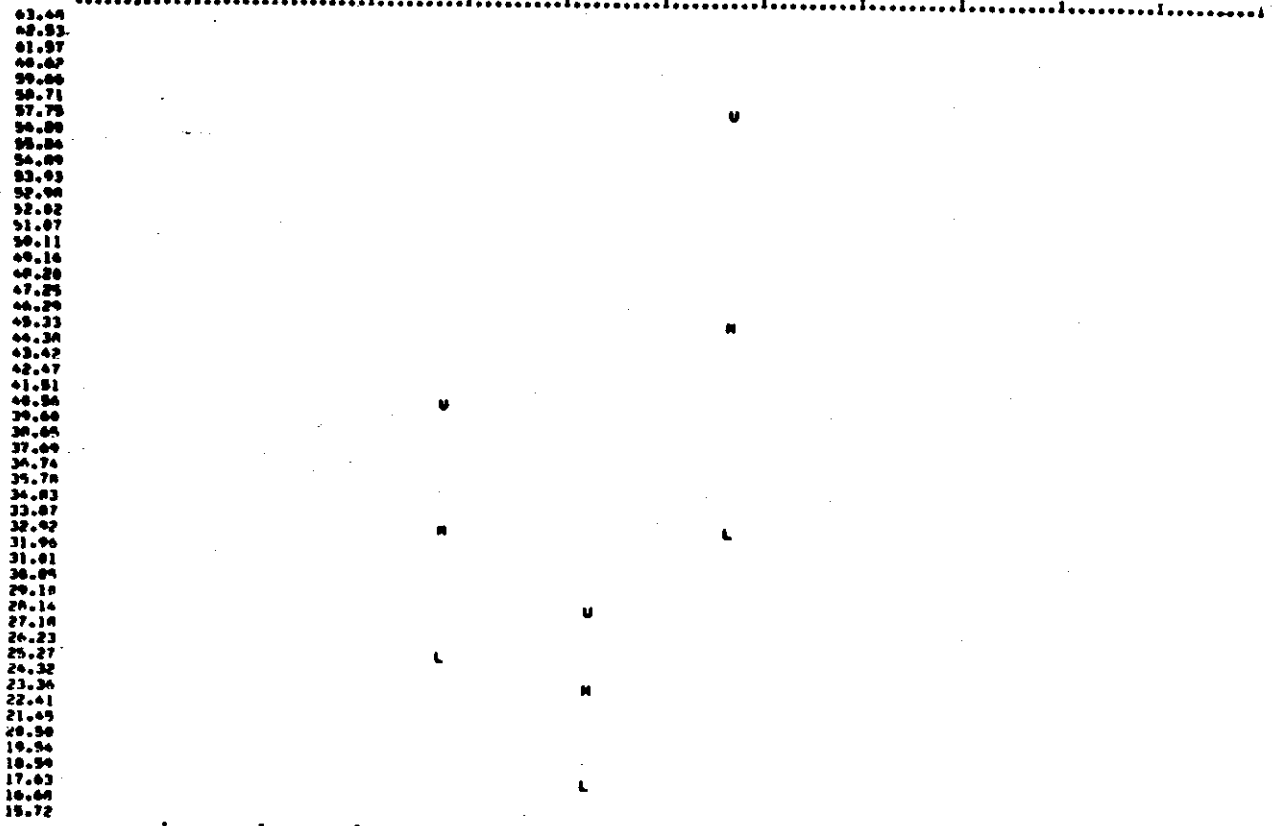


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 1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SO) FOR 50- 60 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY
 THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL) PARRIS, TRT N FOR 1972

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
116	15	34.47	4.91	2.14	23.95	45.00
161*	15	25.29	2.16	2.14	20.87	29.92
203	15	30.20	6.42	2.14	24.54	52.03

*Sequence missing 5 cm of core length.

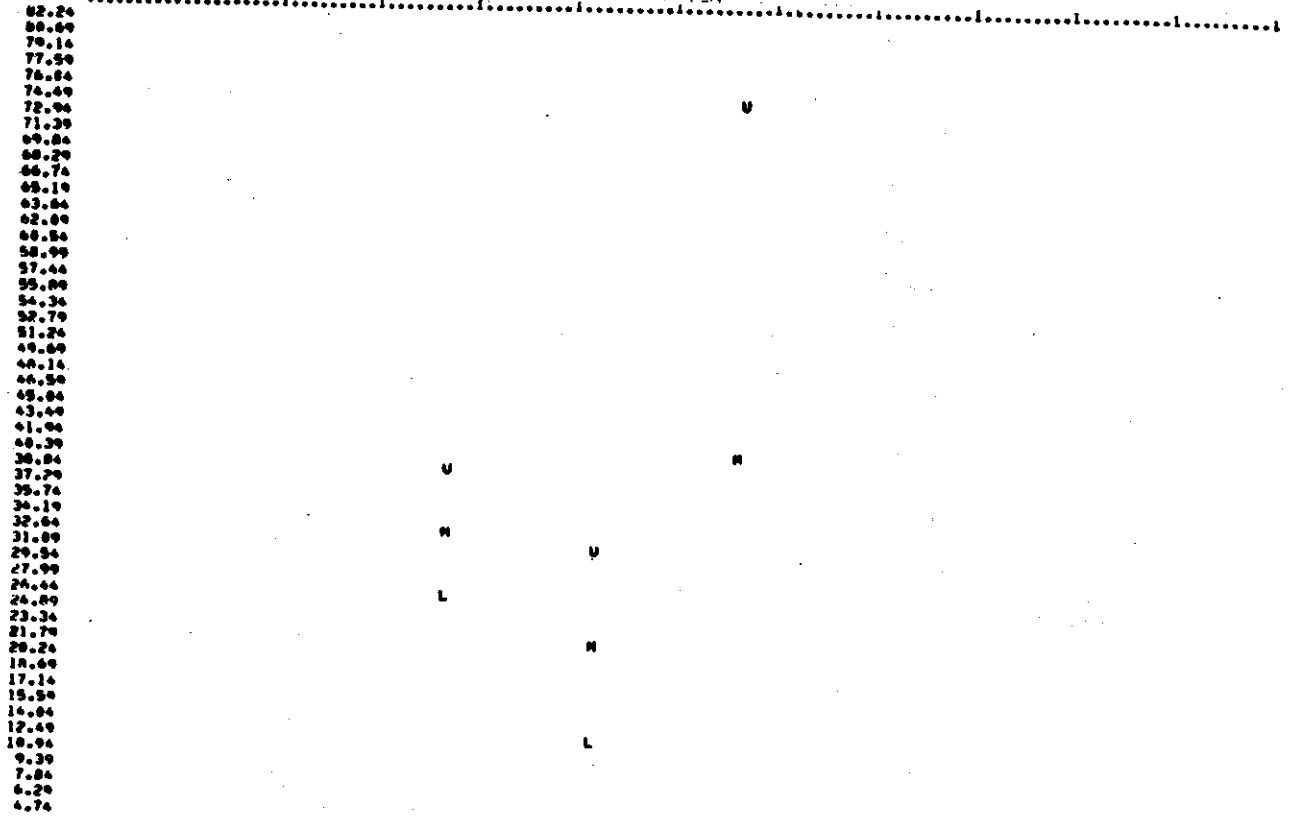


1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0
 AXIS LABELS FOR THIS PLOT ARE
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SO) FOR 60- 70 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAWNEE, TRY K FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
110	15	33.20	3.95	2.14	25.05	40.07
161	14	23.01	2.57	2.10	17.47	28.56
203	14	45.47	5.67	2.10	33.23	57.71



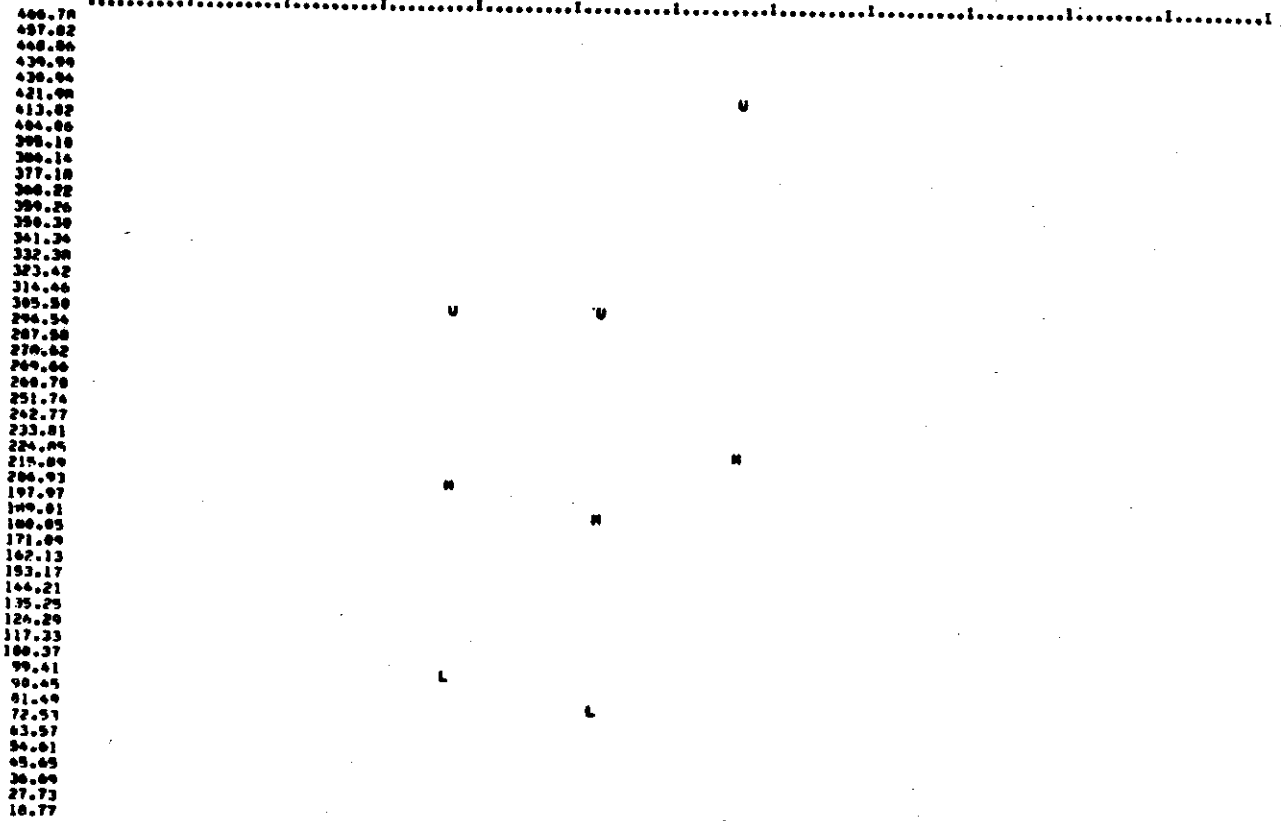
1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0
 AXIS LABELS FOR THIS PLOT ARE -
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 70- 80 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAMNEE, TRT K FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
116 *	15	32.91	2.67	2.14		
161 **	13	21.99	4.86	2.18	27.28	36.63
203	5	46.62	12.69	2.74	12.73	38.44
					5.27	74.76

*Sequence missing 1 cm of core length.
 **Sequence missing 18 cm of core length.



1.0 31.8 61.8 91.8 121.8 151.8 181.8 211.8 241.0 271.0 301.8 331.0 241.0

AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0- 0 CM DEPTH
 THESE DATA INCLUDE CROWN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRT L FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
115	15	203.37	46.84	2.14		
161	15	192.11	52.44	2.14	103.05	303.69
203	15	222.60	94.18	2.14	79.78	384.44
					20.86	424.34

1525.07
 1501.03
 1476.50
 1452.34
 1432.10
 1408.05
 1385.61
 1367.36
 1339.17
 1315.00
 1292.63
 1269.39
 1246.16
 1222.90
 1199.66
 1176.41
 1153.17
 1129.92
 1106.68
 1083.44
 1060.19
 1036.95
 1013.70
 990.46
 967.22
 943.97
 920.73
 897.49
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 804.51
 781.27
 758.02
 734.78
 711.53
 688.29
 665.05
 641.80
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 502.34
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 386.12
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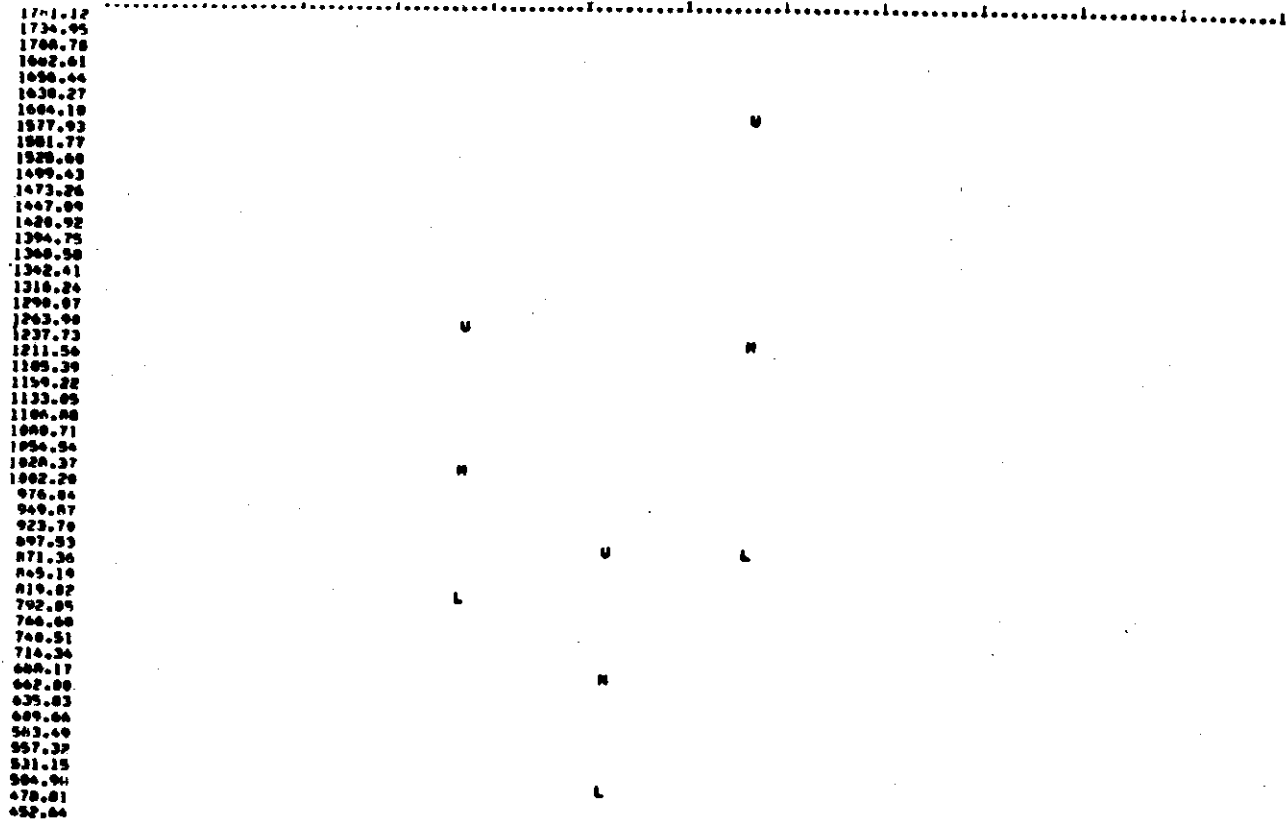
100 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SO) FOR 0-10 CM DEPTH

THESE DATA INCLUDE CROWN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANHEE, TRY L FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

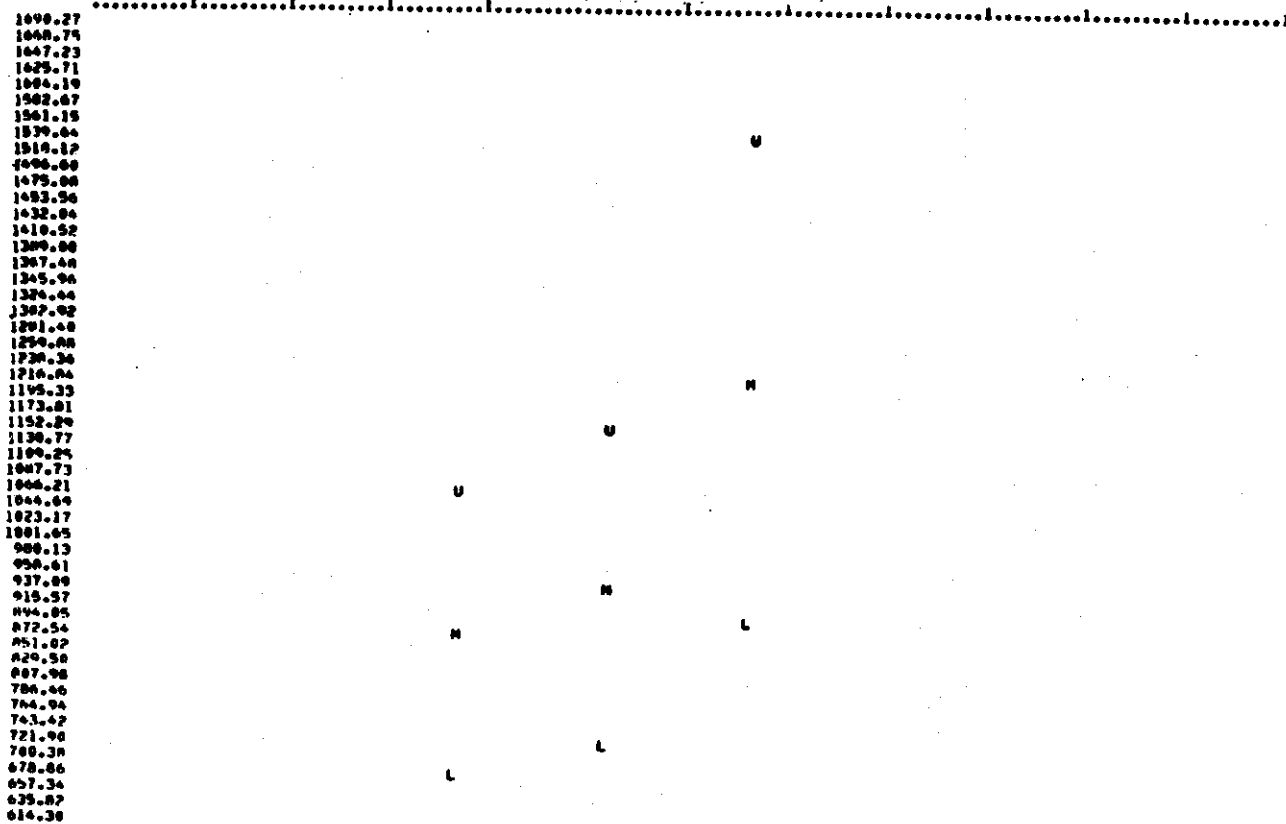
JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
119	15	800.35	102.34	2.14	661.16	1099.57
161	15	540.00	90.29	2.14	482.19	700.01
203	15	1039.92	103.04	2.14	895.00	1300.43



1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0
 AXIS LABELS FOR THIS PLOT ARE -
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M²) FOR 0- 30 CM DEPTH
 THESE DATA INCLUDE CROWN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRT L FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M ²)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
115	15	1039.55	106.20	2.14	812.00	1267.03
161	15	788.37	92.17	2.14	582.94	897.86
203	15	1246.74	165.00	2.14	892.45	1681.02

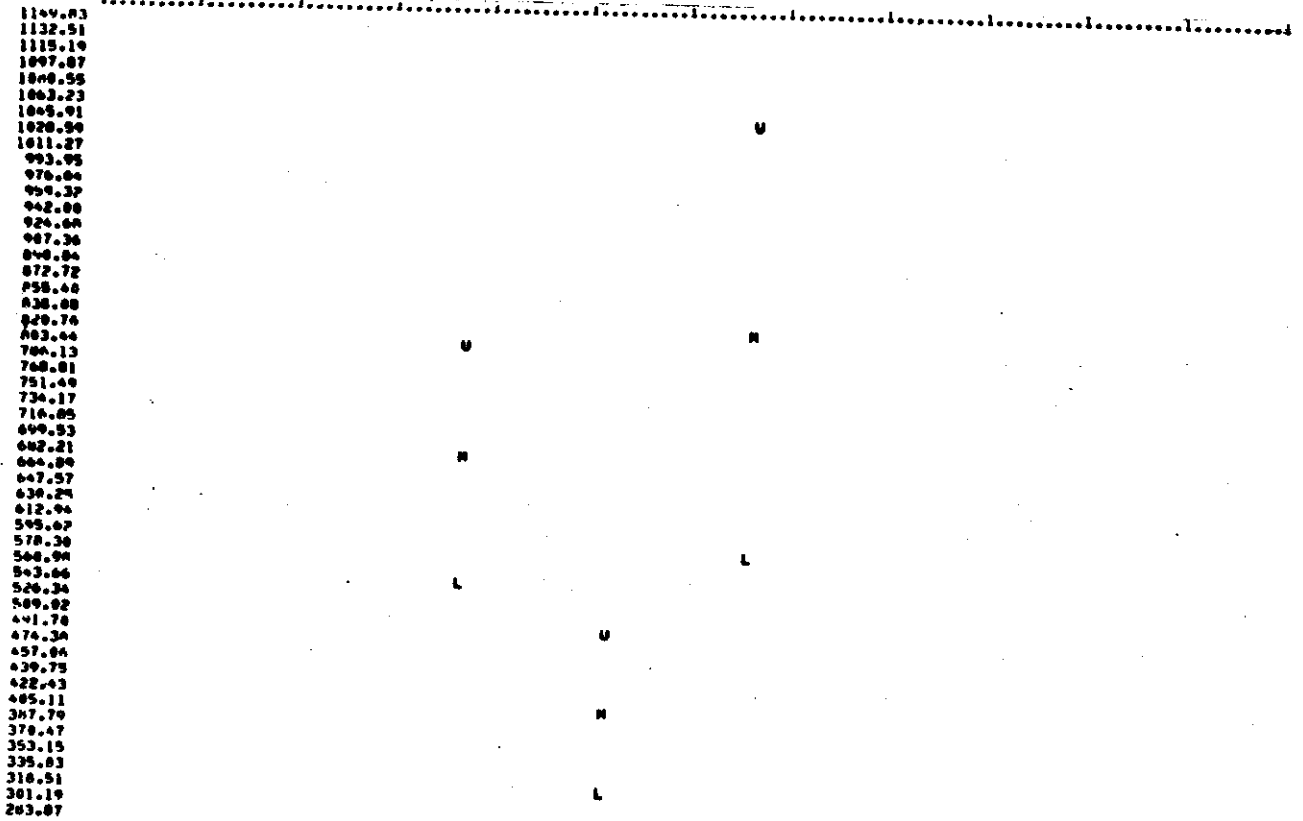


1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0
 AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0- 60 CM DEPTH

THESE DATA INCLUDE CROWN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAWNEE, TRT L FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
115	15	1157.18	110.72	2.14	920.02	1394.33
181	15	777.98	94.96	2.14	574.56	981.37
203	15	1420.66	171.99	2.14	1052.26	1789.06



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 1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0
 AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0- 10 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRT L FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
115	15	476.98	62.12	2.14		
161	15	464.49	41.59	2.14	543.92	818.05
203	15	813.31	108.38	2.14	315.42	493.57
					581.33	1045.38

1379.06
 1369.05
 1339.04
 1319.24
 1299.03
 1278.03
 1258.02
 1238.01
 1218.21
 1198.00
 1177.79
 1157.59
 1137.39
 1117.17
 1096.97
 1076.76
 1056.55
 1036.35
 1016.14
 995.93
 975.73
 955.52
 935.31
 915.11
 894.90
 874.70
 854.49
 834.28
 814.08
 793.87
 773.66
 753.46
 733.25
 713.04
 692.84
 672.63
 652.42
 632.22
 612.01
 591.80
 571.60
 551.39
 531.19
 510.98
 490.77
 470.56
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 430.15
 409.95
 389.74
 369.53

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1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE -
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M 50) FOR 0- 30 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAWNEE, TRT L FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M 50)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
119	15	836.18	66.44	2.14	693.06	978.51
161	15	508.26	45.00	2.14	418.59	605.92
203	15	1024.14	107.51	2.14	793.06	1254.42

1506.76
 1503.15
 1500.04
 1516.94
 1493.83
 1478.72
 1447.62
 1424.51
 1401.40
 1378.30
 1355.19
 1332.08
 1308.98
 1285.87
 1262.76
 1239.66
 1216.55
 1193.44
 1170.34
 1147.23
 1124.12
 1101.02
 1077.91
 1054.80
 1031.70
 1008.59
 985.48
 962.38
 939.27
 916.16
 893.06
 869.95
 846.85
 823.74
 800.63
 777.52
 754.42
 731.31
 708.20
 685.10
 661.99
 638.88
 615.78
 592.67
 569.56
 546.46
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 500.24
 477.14
 454.03
 430.92

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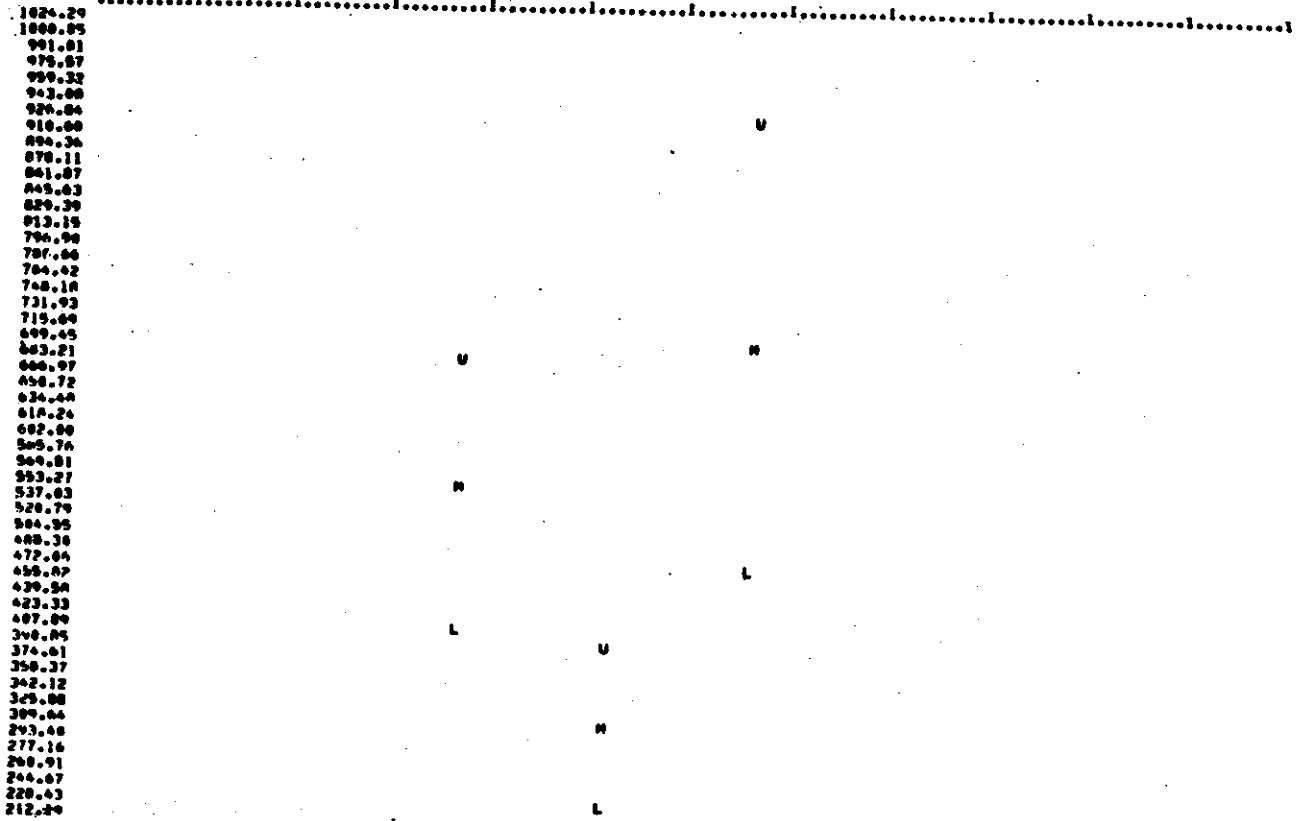
1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE :
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SO) FOR 0- 60 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAVNEE, TRT L FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
115	15	953.88	78.84	2.14	802.87	1105.54
161	18	585.86	69.98	2.14	478.88	692.93
203	18	1198.86	113.91	2.14	954.87	1442.85

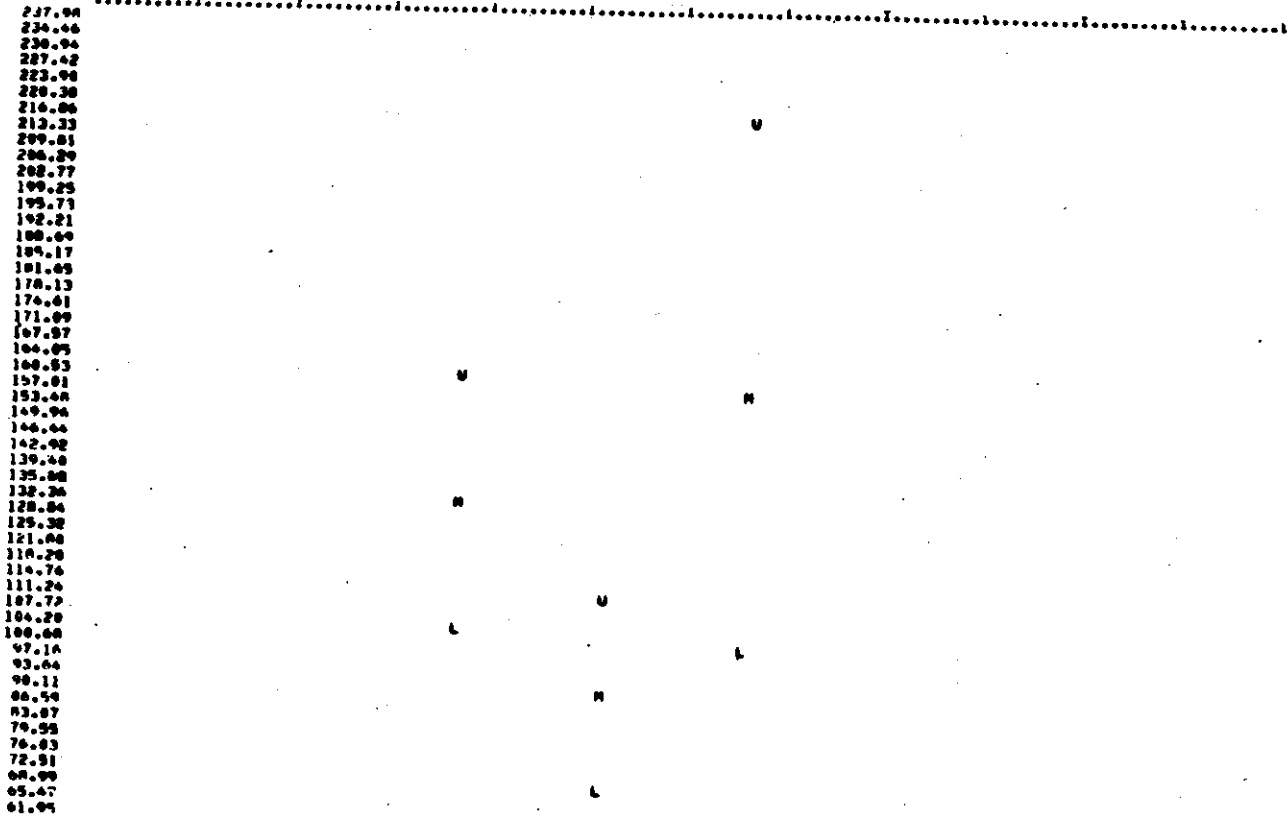


AXIS LABELS FOR THIS PLOT ARE -
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M² SO) FOR 0- 3 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANHEE, TRY L FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M ² SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
115	15	545.15	61.20	2.14	413.94	676.37
161	15	314.87	36.56	2.14	235.76	392.37
263	16	701.77	106.20	2.16	472.36	931.17



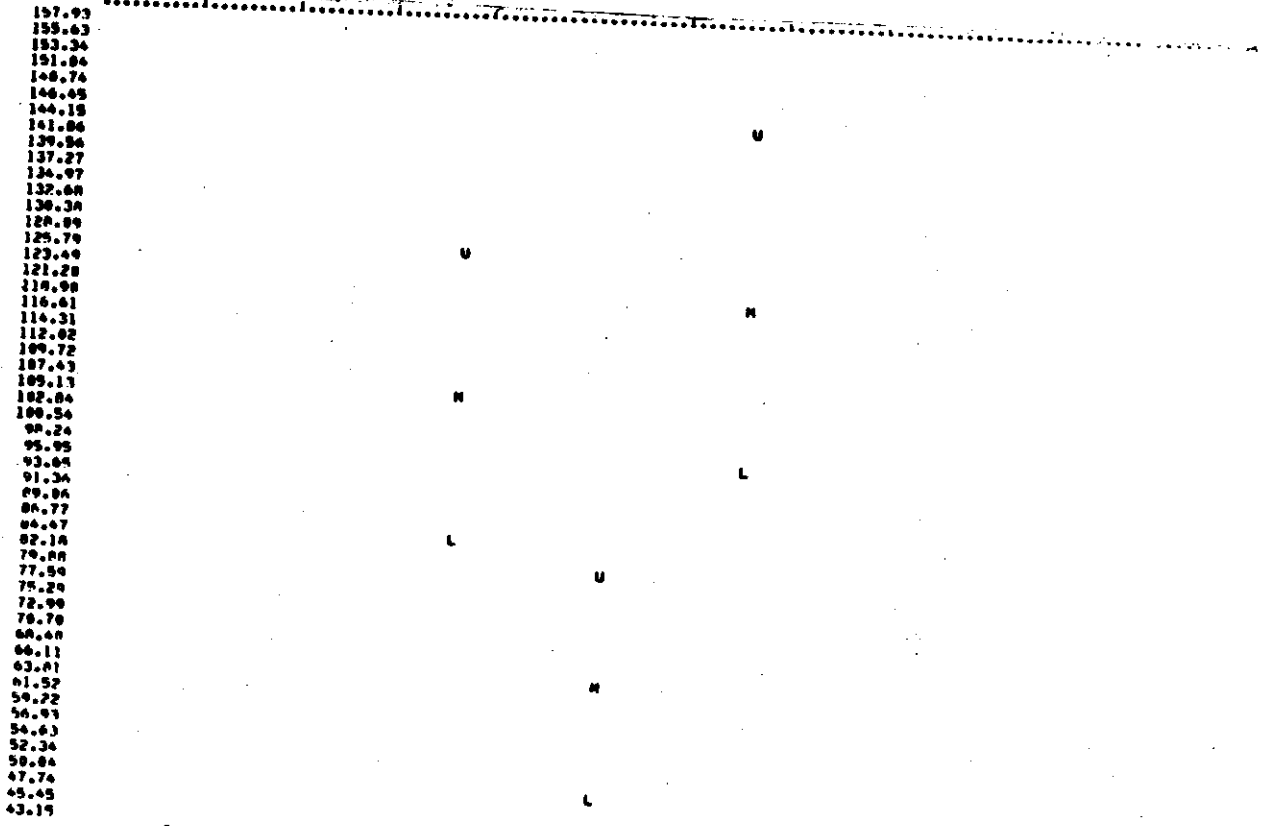
1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE -
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SO) FOR 5- 10 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRT L FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

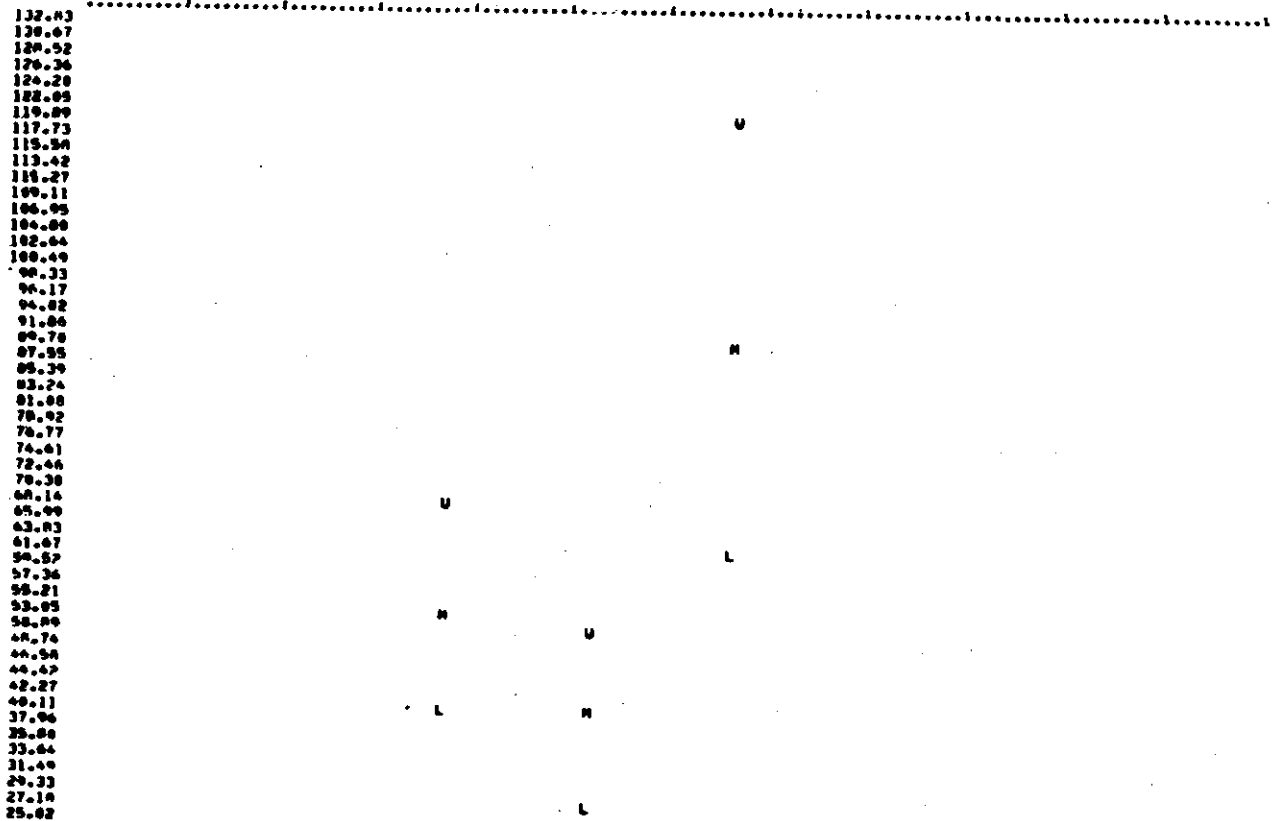
JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
115	15	131.83	13.24	2.14		
161	15	99.43	19.88	2.14	103.48	108.18
203	15	159.33	27.88	2.14	68.83	112.02
					189.32	216.34



1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0
 AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M²) FOR 10-20 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY
 THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRT L FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

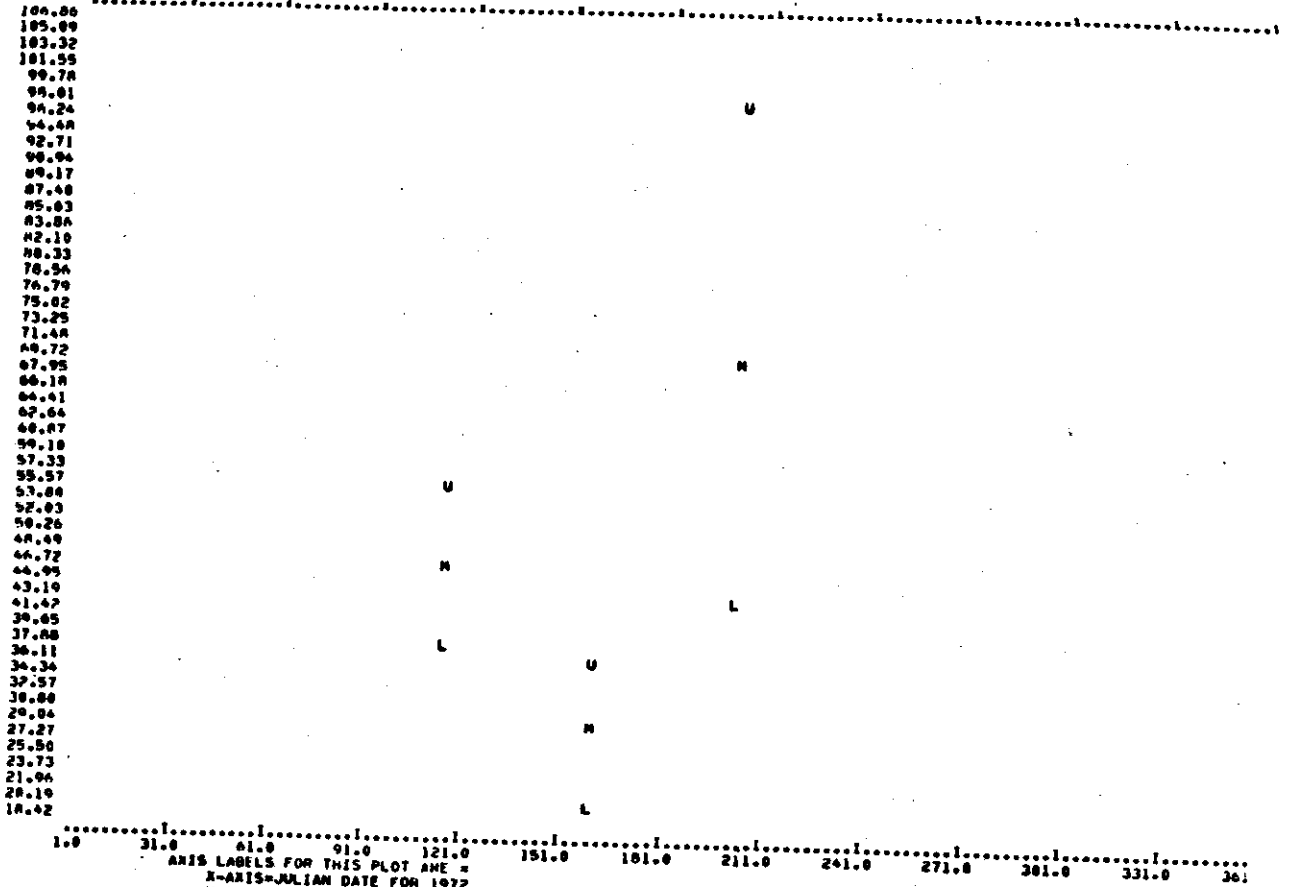
JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M ²)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
115	15	105.32	9.84	2.14		
161	15	63.92	7.46	2.14	84.24	126.61
203	15	120.05	10.98	2.14	47.95	79.90
					96.53	143.57



THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRT L FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
115	15	53.87	6.26	2.14	48.48	67.27
161	15	39.84	5.62	2.14	27.88	51.89
203	15	98.77	14.00	2.14	60.79	126.75



AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 30-40 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRT L FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
115	15	46.60	4.15	2.14		
161	15	28.58	3.79	2.14	37.72	55.48
203	15	79.16	12.60	2.14	28.47	36.89
					43.17	97.14

80.57
79.32
78.07
76.82
75.57
74.32
73.08
71.83
70.58
69.33
68.08
66.83
65.59
64.34
63.09
61.84
60.59
59.34
58.10
56.85
55.60
54.35
53.10
51.85
50.61
49.36
48.11
46.86
45.61
44.36
43.12
41.87
40.62
39.37
38.12
36.87
35.62
34.38
33.13
31.88
30.63
29.38
28.14
26.89
25.64
24.39
23.14
21.89
20.64
19.40
18.15

1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE -
X-AXIS=JULIAN DATE FOR 1972
Y-AXIS=BELOW GROUND BIOMASS (G/M SO) FOR 40- 50 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAWNEE, TRT L FOR 1972
(CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
115	15	36.38	3.59	2.14	28.70	44.06
161	15	25.46	2.47	2.14	20.17	30.76
203	15	57.69	7.26	2.14	42.13	73.26

68.24
67.23
66.22
65.21
64.20
63.19
62.18
61.17
60.16
59.15
58.13
57.12
56.11
55.10
54.09
53.08
52.07
51.06
50.05
49.04
48.03
47.01
46.00
44.99
43.98
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32.86
31.85
30.84
29.83
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17.70

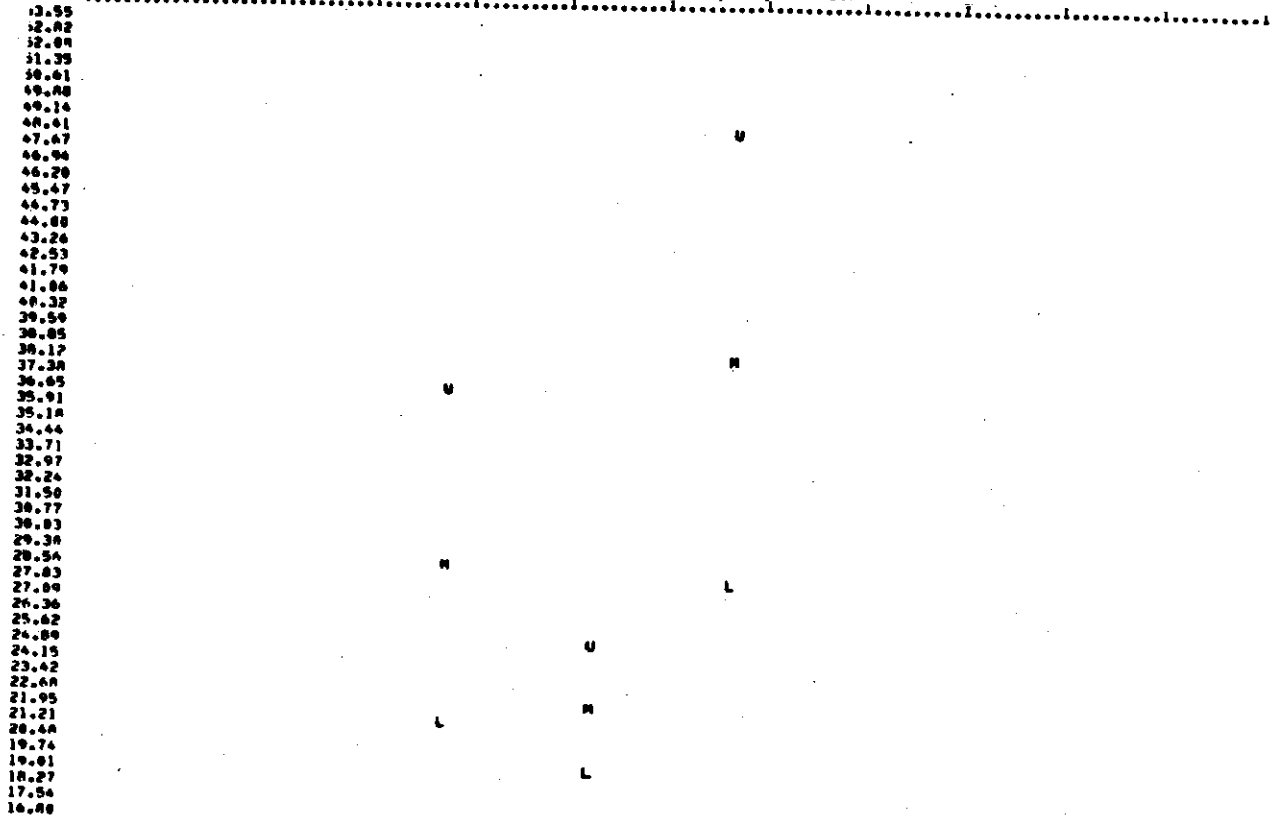
1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE =
X-AXIS=JULIAN DATE FOR 1972
Y-AXIS=BELOW GROUND BIOMASS (G/M SO) FOR 50- 60 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAMNEE, TRI L FOR 1972
(CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

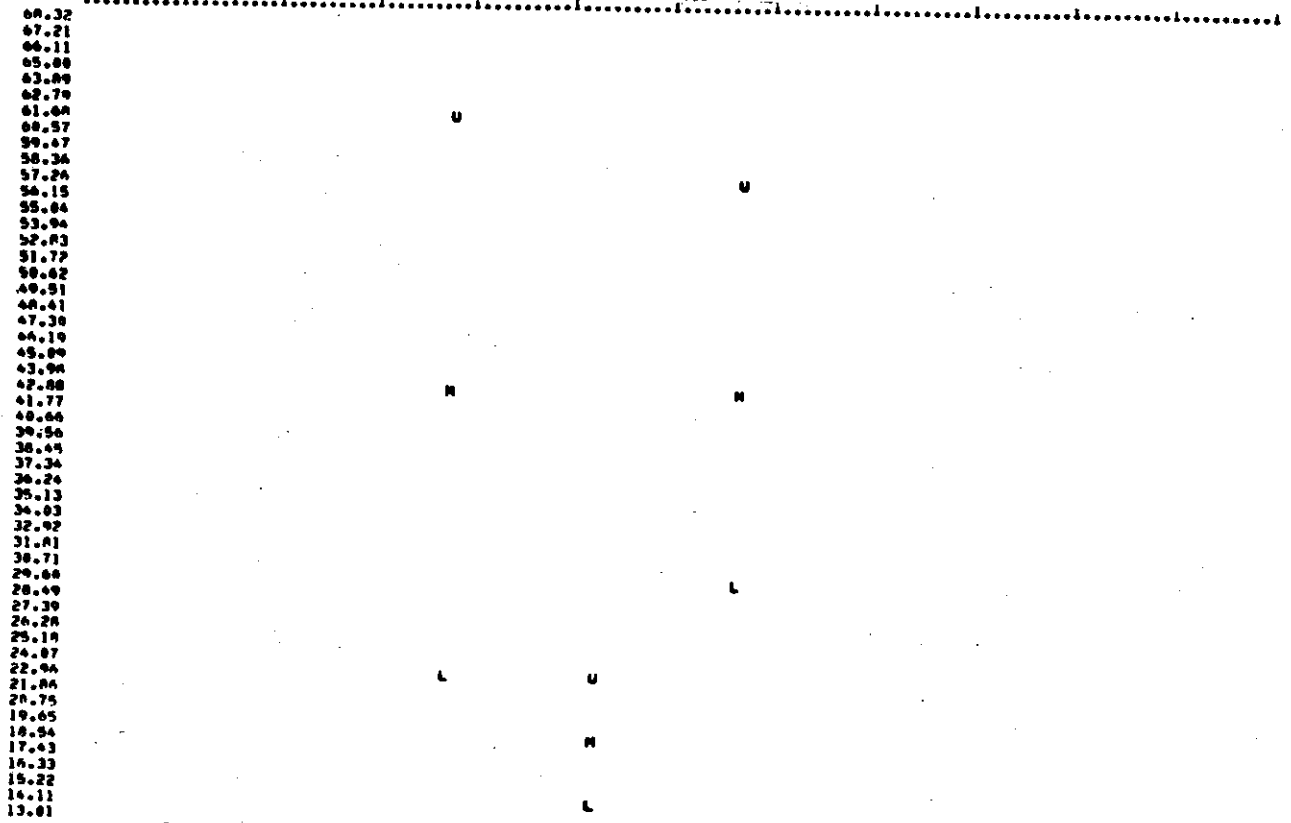
JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
115	15	34.65	4.26	2.14	25.93	43.76
161	15	23.56	1.82	2.14	19.66	27.46
203	15	46.08	7.45	2.14	36.12	62.04



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 1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 60-70 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY
 THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRT L FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
119	15	28.76	3.56	2.14		
161	15	21.83	1.47	2.14	21.12	36.39
203	15	38.28	4.85	2.14	27.89	48.68



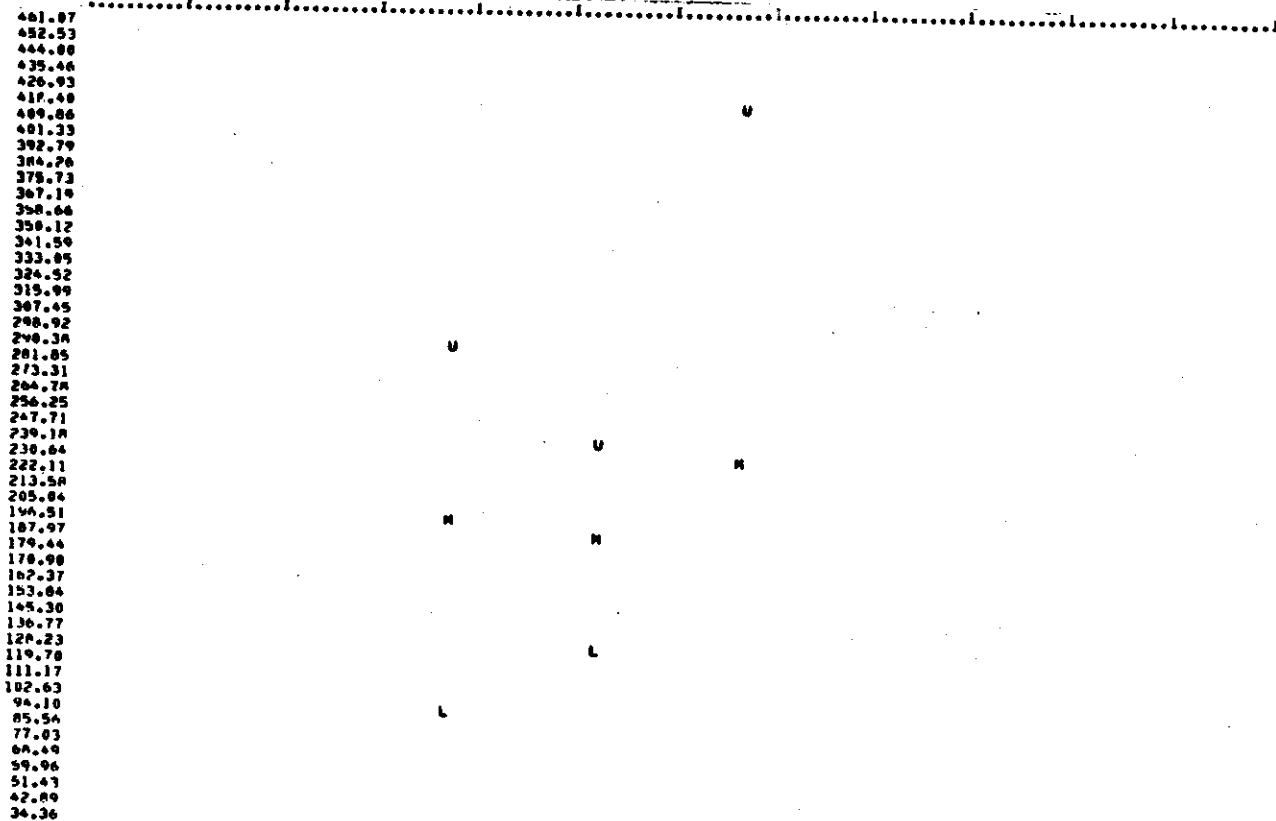
AXIS LABELS FOR THIS PLOT ARE -
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 79- 89 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRT L FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
115	15	42.61	9.18	2.14	23.12	62.11
161*	15	18.86	2.87	2.14	14.45	23.31
283	11	42.99	6.14	2.24	29.25	56.73

*Sequence missing 6 cm of core length.



1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0
 AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0- 0 CM DEPTH

THESE DATA INCLUDE CROWN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRT M FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
115	15	192.29	45.80	2.14	94.18	290.39
161	15	183.88	26.64	2.14	126.73	240.86
203	15	228.66	88.93	2.14	38.18	419.15

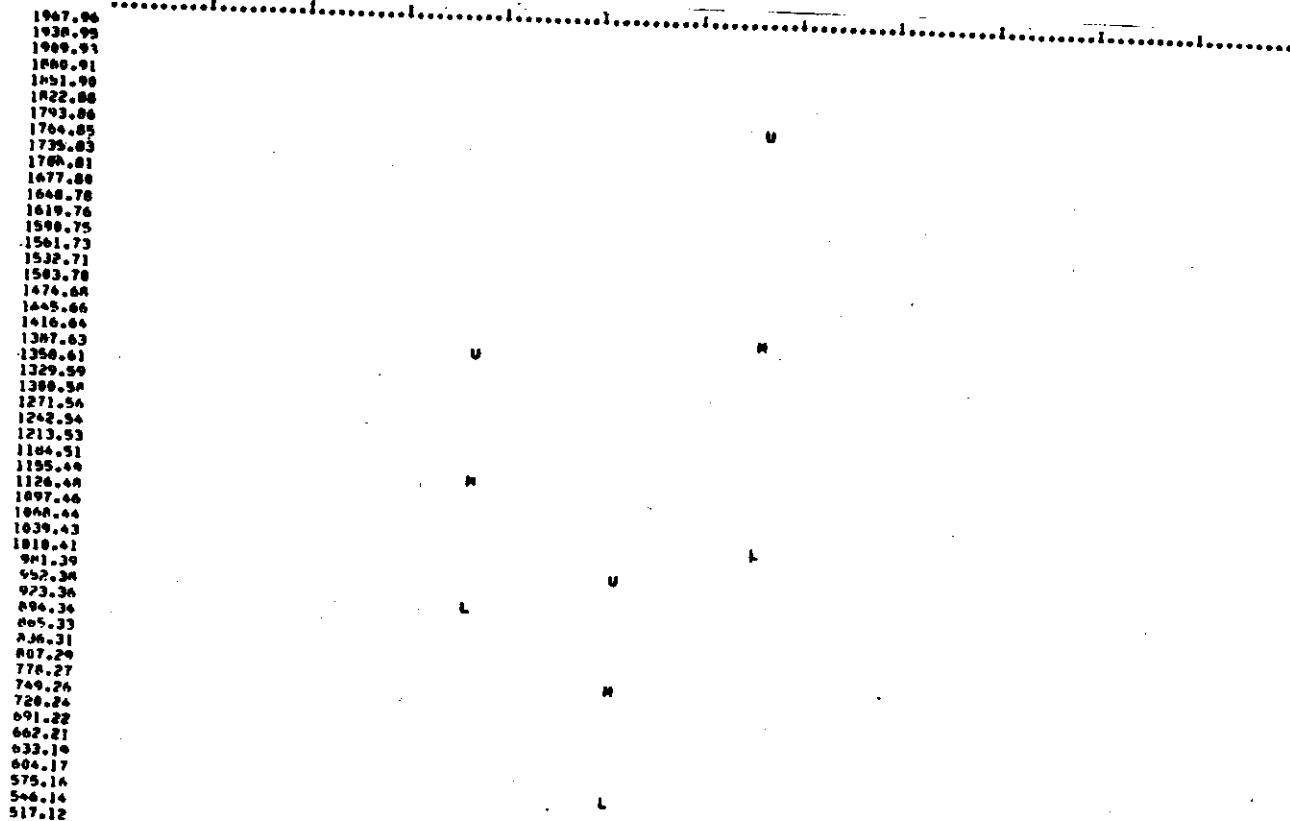
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 1588.91
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 1513.18
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 1441.57
 1417.71
 1393.84
 1369.97
 1346.11
 1322.24
 1298.37
 1274.50
 1250.64
 1226.77
 1202.90
 1179.03
 1155.17
 1131.30
 1107.43
 1083.56
 1059.70
 1035.83
 1011.96
 988.09
 964.23
 940.36
 916.49
 892.62
 868.76
 844.89
 821.02
 797.15
 773.29
 749.42
 725.55
 701.69
 677.82
 653.95
 630.08
 606.22
 582.35
 558.48
 534.61
 510.75

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 1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0
 AXIS LABELS FOR THIS PLOT ARE -
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0-30 CM DEPTH

THESE DATA INCLUDE CROWN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRT M FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

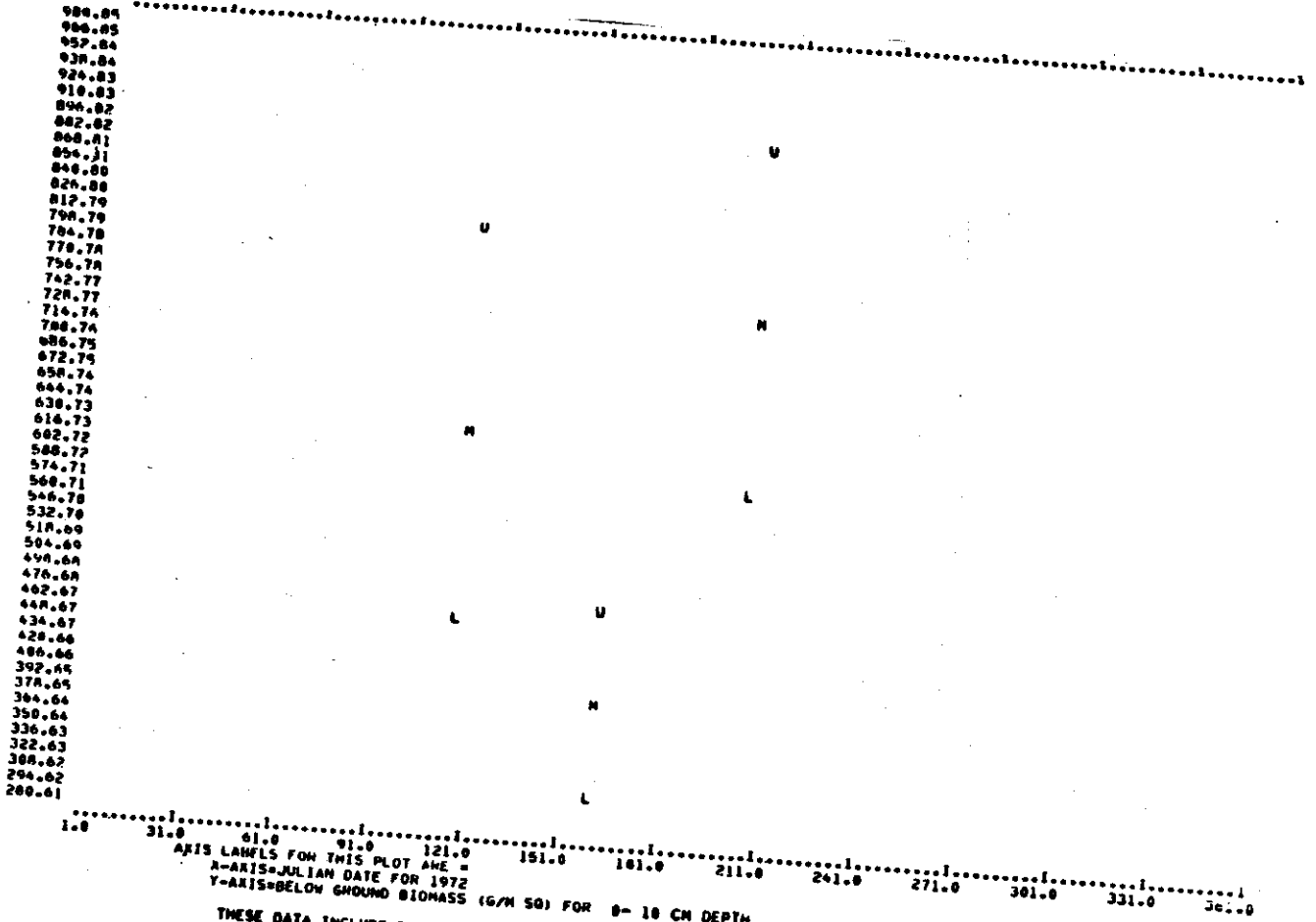
JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
115	15	1029.58	128.65	2.14	762.07	1278.93
161	15	712.32	67.61	2.14	567.50	857.15
203	15	1247.88	141.88	2.14	944.97	1549.20



1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0
 AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0-60 CM DEPTH

THESE DATA INCLUDE CROWN MATERIAL
 THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAWNEE, TRT N FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

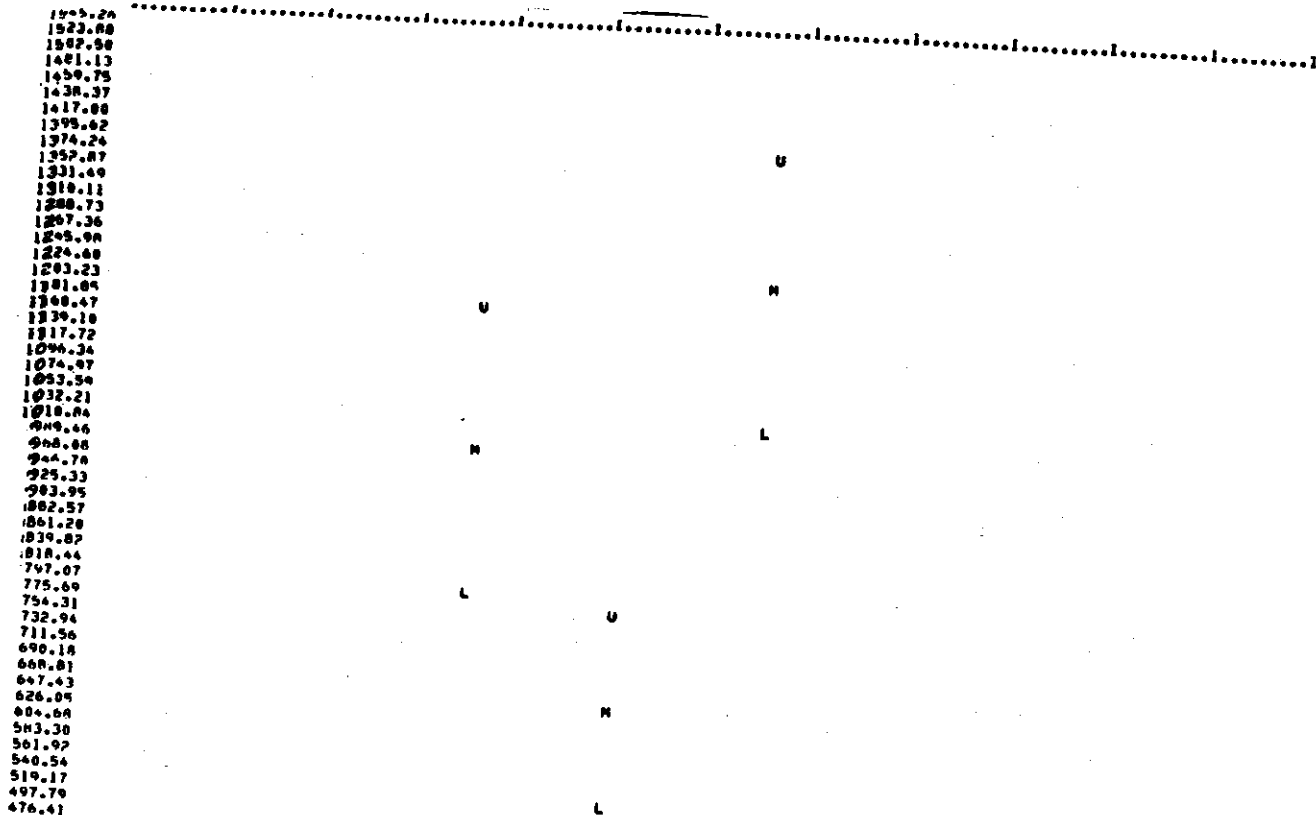
JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
115	15	1175.89	128.78	2.14		
161	15	835.32	71.58	2.14	988.84	1451.73
203	15	1447.68	145.24	2.14	682.17	988.46
					1136.57	1758.88



1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 351.0
 AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SO) FOR 0-10 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY
 THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRT N FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
115	15	633.85	81.33	2.14	459.64	808.06
161	15	397.74	68.12	2.14	311.79	483.68
203	15	739.92	71.84	2.14	587.35	891.68

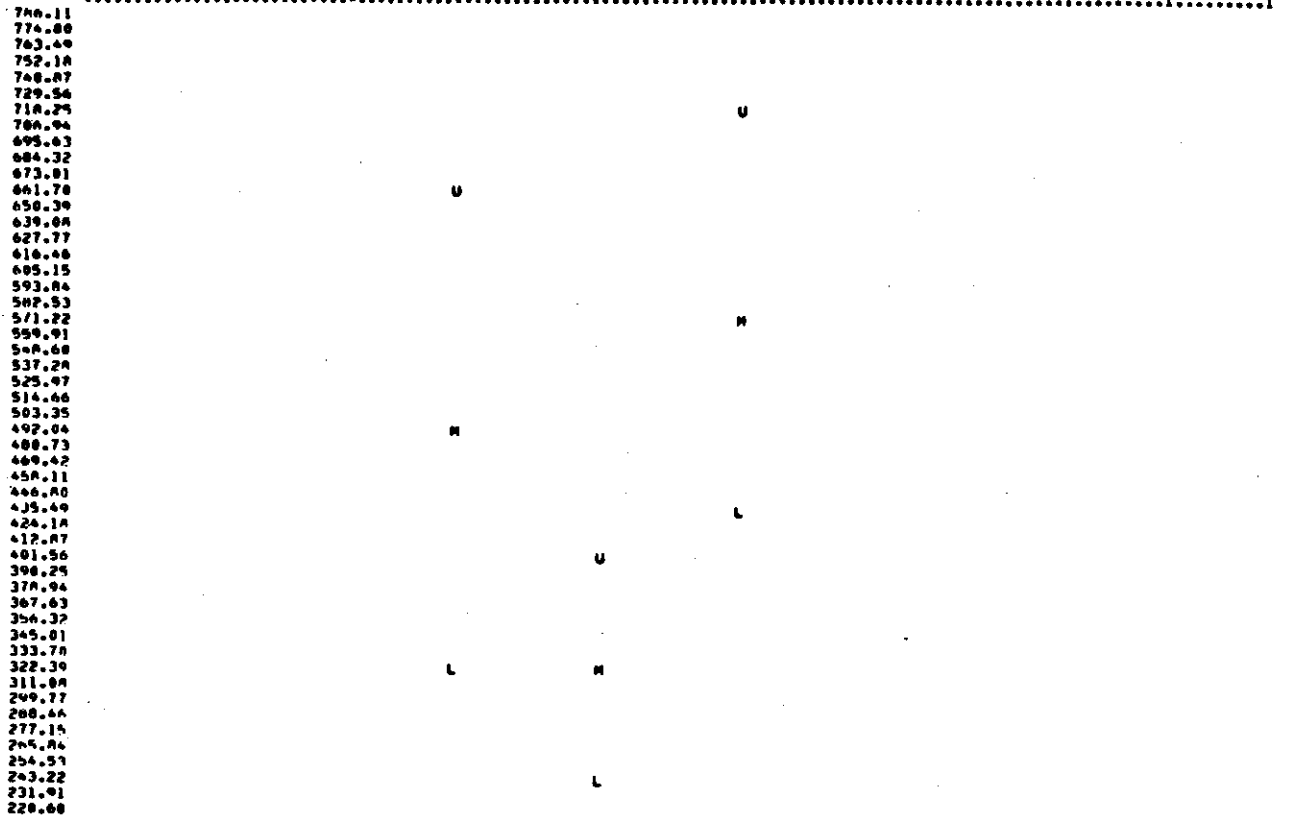


1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0
 AXIS LABELS FOR THIS PLOT ARE -
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0- 60 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRT M FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
115	15	983.60	90.53	2.14	789.69	1177.51
161	15	651.52	57.83	2.14	529.35	773.69
203	15	1219.02	86.72	2.14	1033.26	1404.78



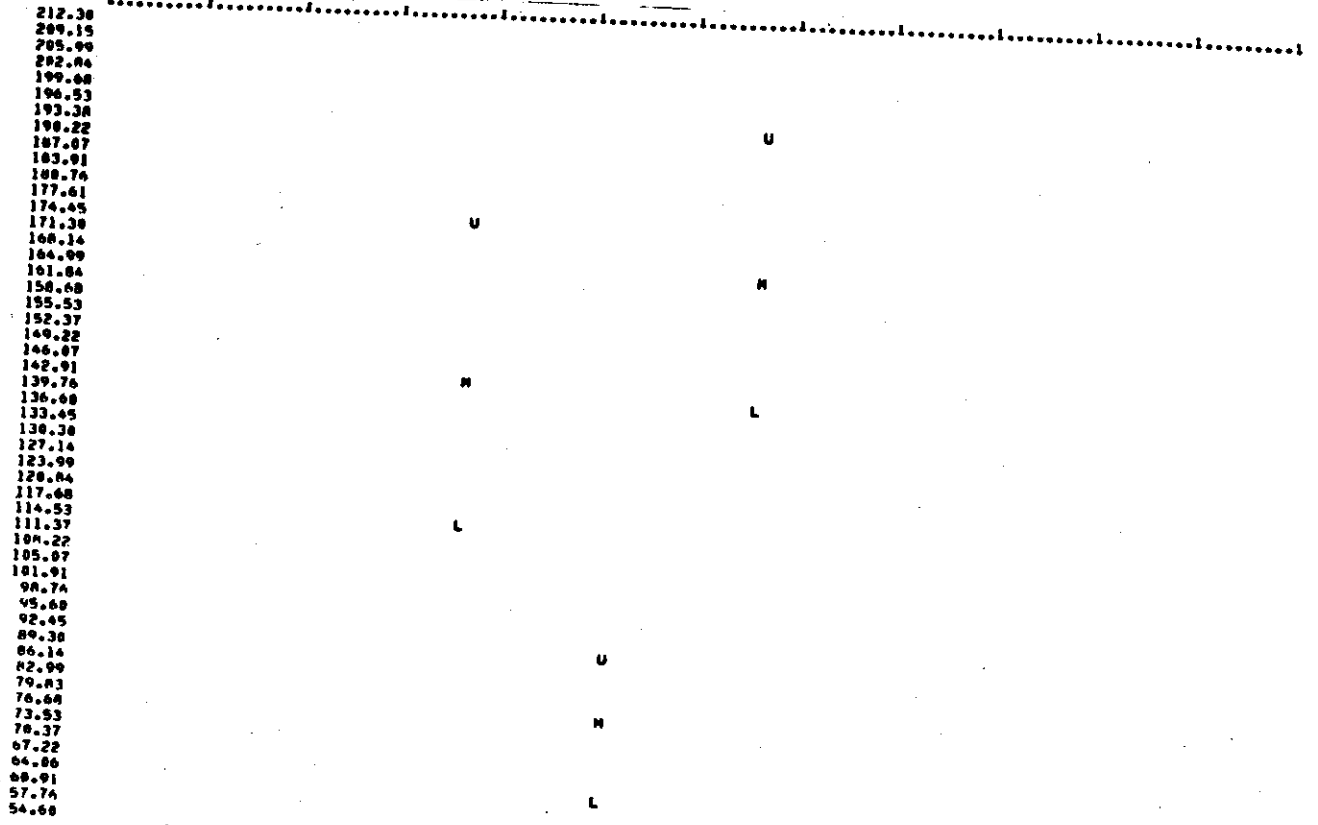
1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0- 5 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRT M FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
115	15	489.72	80.21	2.14	317.90	661.54
161	15	322.83	35.91	2.14	245.11	398.96
203	15	573.22	66.82	2.14	431.79	714.64



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 1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0
 AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SO) FOR 5- 10 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAWNEE, TRT M FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
115	15	144.13	14.01	2.14	114.11	174.14
161	15	75.70	7.02	2.14	60.67	98.73
203	15	166.30	12.46	2.14	139.68	193.08

209.53
 206.32
 203.12
 199.91
 196.71
 193.50
 190.30
 187.09
 183.89
 180.68
 177.48
 174.27
 171.07
 167.86
 164.66
 161.45
 158.25
 155.04
 151.84
 148.63
 145.43
 142.22
 139.02
 135.81
 132.61
 129.40
 126.20
 122.99
 119.79
 116.58
 113.38
 110.17
 106.97
 103.76
 100.56
 97.35
 94.15
 90.94
 87.74
 84.53
 81.33
 78.12
 74.92
 71.71
 68.51
 65.30
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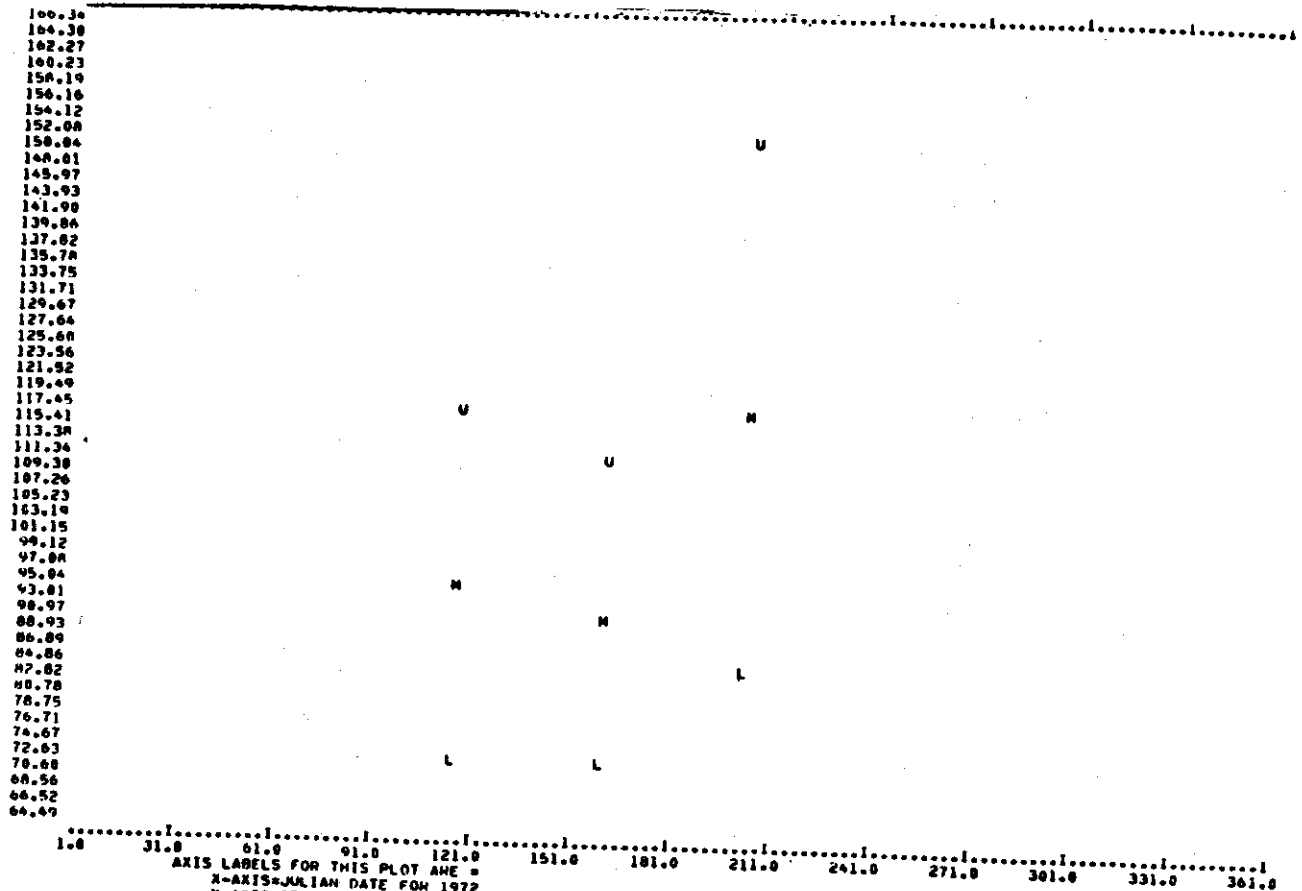
1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 10- 20 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAVNEE, TRT M FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
115	15	117.28	13.84	2.14	89.35	145.20
161	15	75.36	9.82	2.14	54.75	95.96
203	15	156.43	15.90	2.14	122.37	190.48



THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAWNEE TRT M FOR 1972
(CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
115	15	826.13	119.40	2.14	570.39	1081.88
161	15	581.53	59.59	2.14	453.98	709.17
203	15	968.18	141.32	2.14	665.47	1270.89

144.23
 143.69
 141.14
 138.99
 136.84
 133.49
 130.95
 128.48
 125.85
 123.31
 120.76
 118.21
 115.67
 113.12
 110.57
 108.03
 105.48
 102.93
 100.39
 97.84
 95.29
 92.75
 90.20
 87.65
 85.10
 82.56
 80.01
 77.46
 74.92
 72.37
 69.82
 67.28
 64.73
 62.18
 59.64
 57.09
 54.54
 52.00
 49.45
 46.90
 44.35
 41.81
 39.26
 36.71
 34.17
 31.62
 29.07
 26.53
 23.98
 21.43
 18.89

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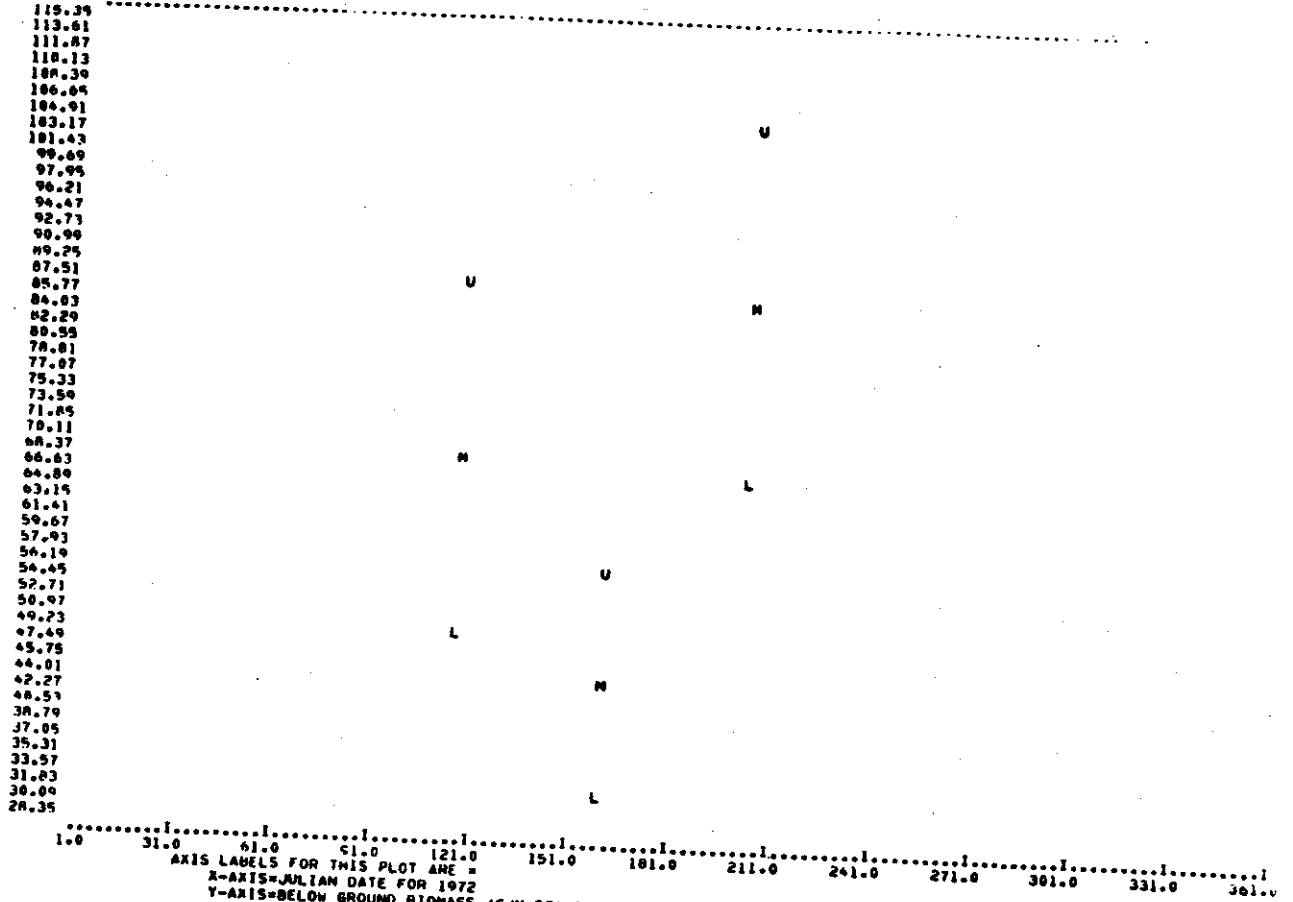
1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 20- 30 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANMEE, TRT M FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
115	15	77.89	10.67	2.14		
161	15	95.43	5.71	2.14	94.22	99.95
203	15	122.47	13.37	2.14	43.21	67.66
					93.83	151.12

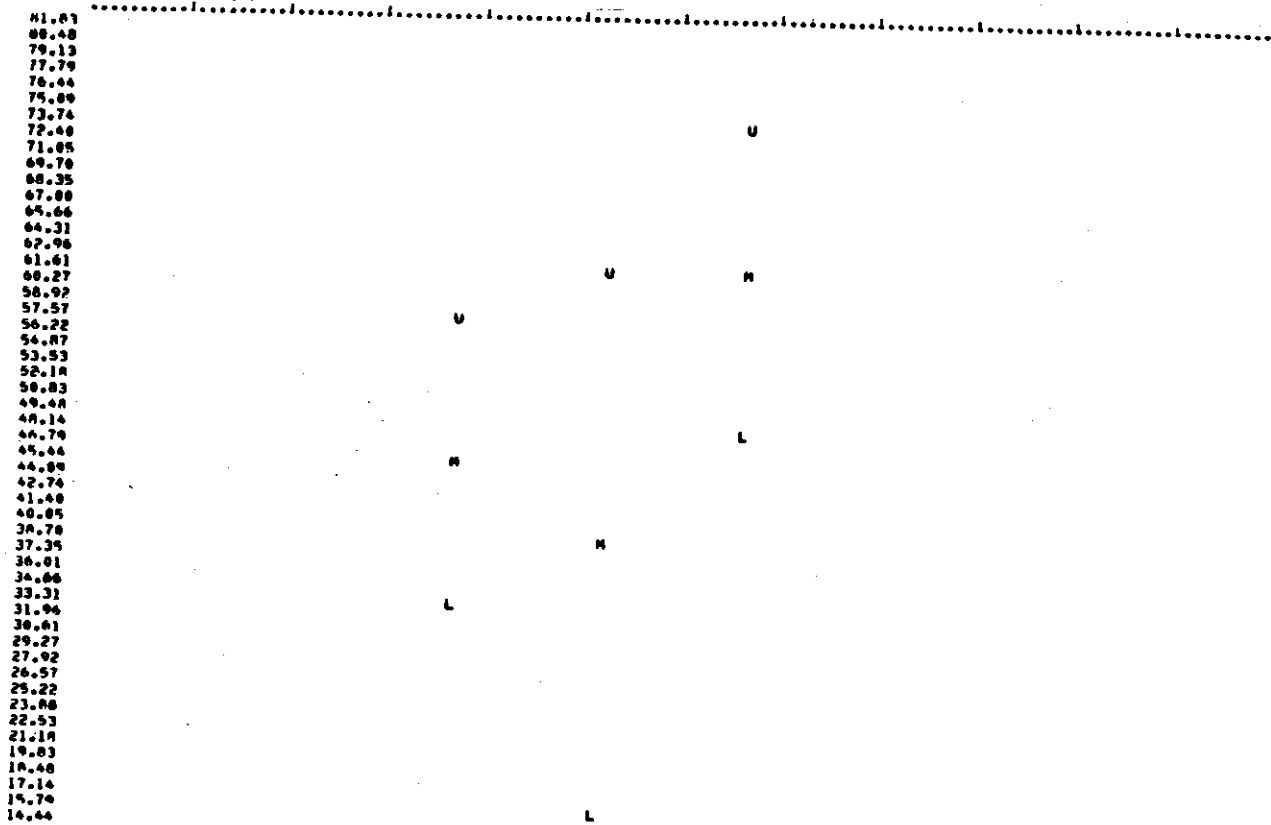


AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 30- 40 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAWNEE, TRT N FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
115	15	68.95	8.04			
161	15	44.00	5.83	2.14	30.61	87.89
203	15	85.58	9.01	2.14	31.50	56.50
					66.28	104.87



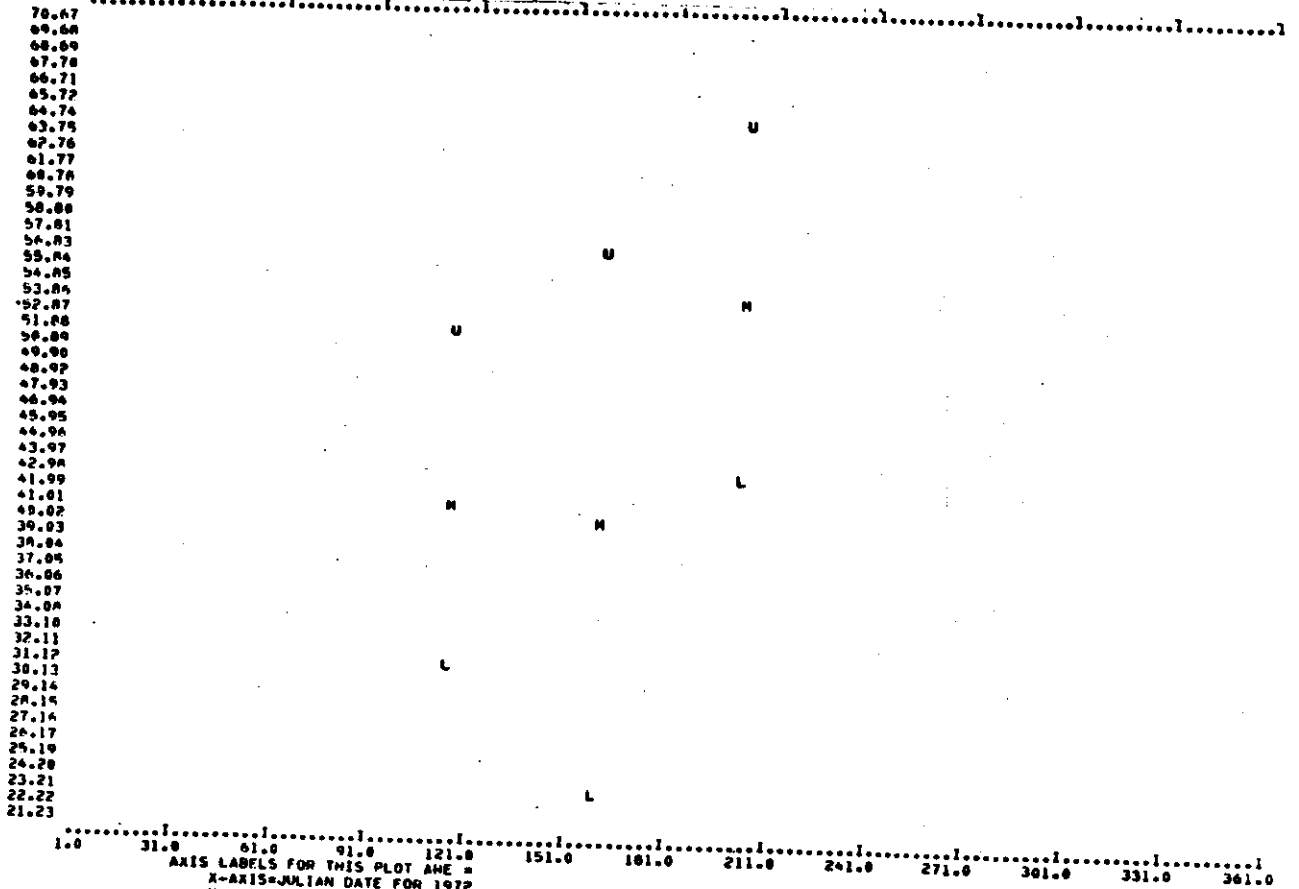
.....
 1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

 AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 40- 50 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAWNEE, TRT M FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

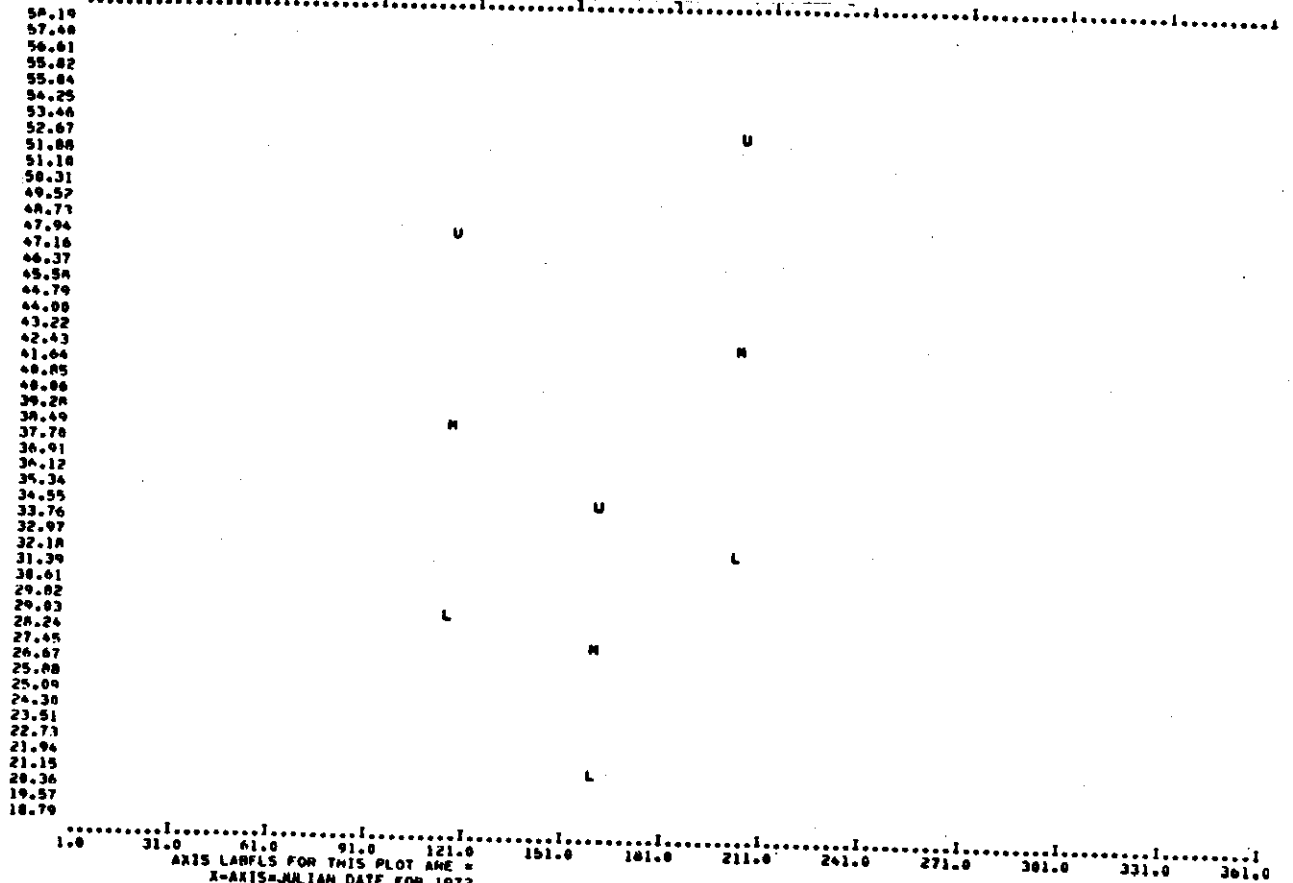
JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
115	15	45.21	5.50	2.14		
161	15	30.00	10.02	2.14	33.43	57.00
203	15	61.32	6.10	2.14	18.05	61.56
					48.26	74.39



AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SO) FOR 50- 60 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY
 THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

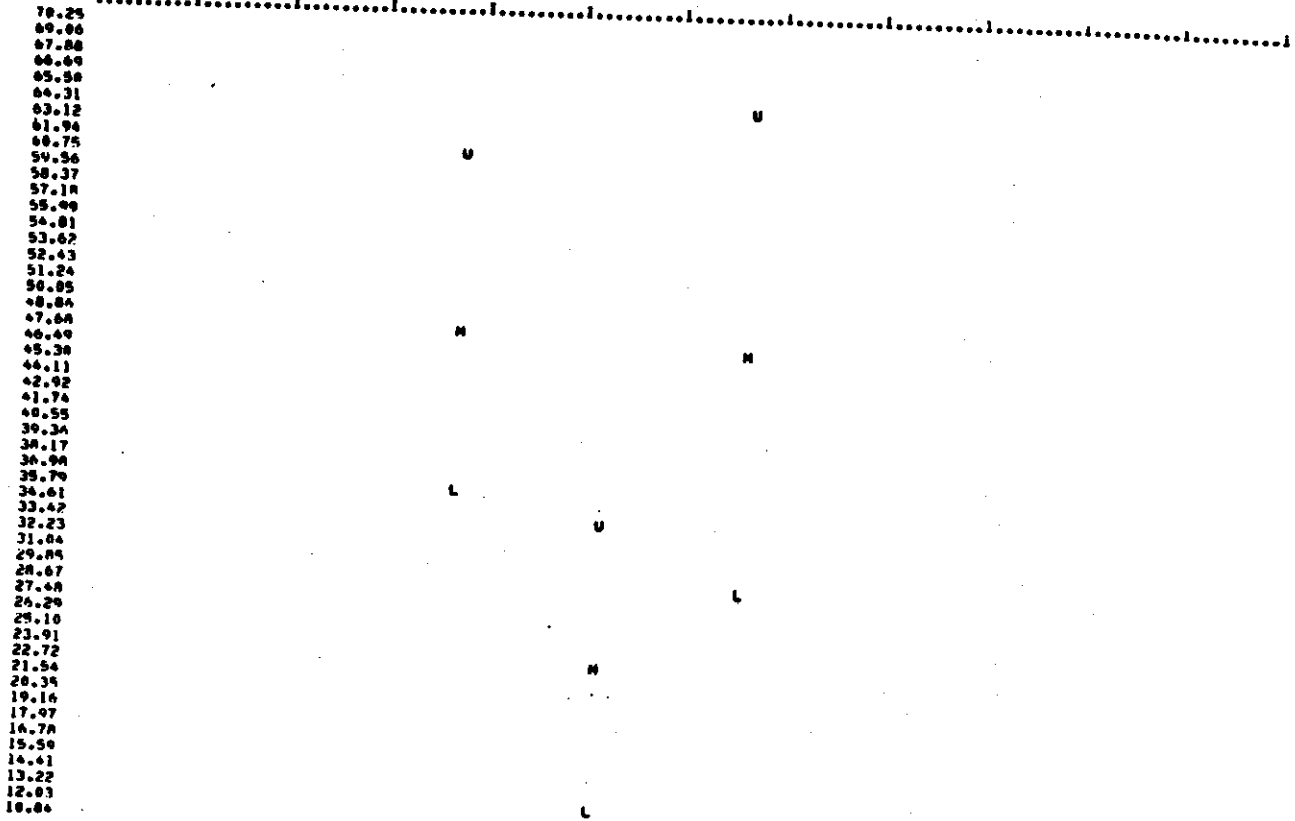
JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
115	15	41.23	4.88	2.14		
161	15	40.19	7.75	2.14	30.78	51.08
203	15	53.70	4.92	2.14	23.59	56.79
					43.16	64.24



THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEE, TRT M FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
115	15	38.20	4.42	2.14	28.81	47.76
161	15	27.54	3.11	2.14	20.07	34.21
263	15	42.44	4.80	2.14	31.90	52.90



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 1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

 .AXIS LABELS FOR THIS PLOT ARE :
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 70- 88 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNUE, TRT M FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

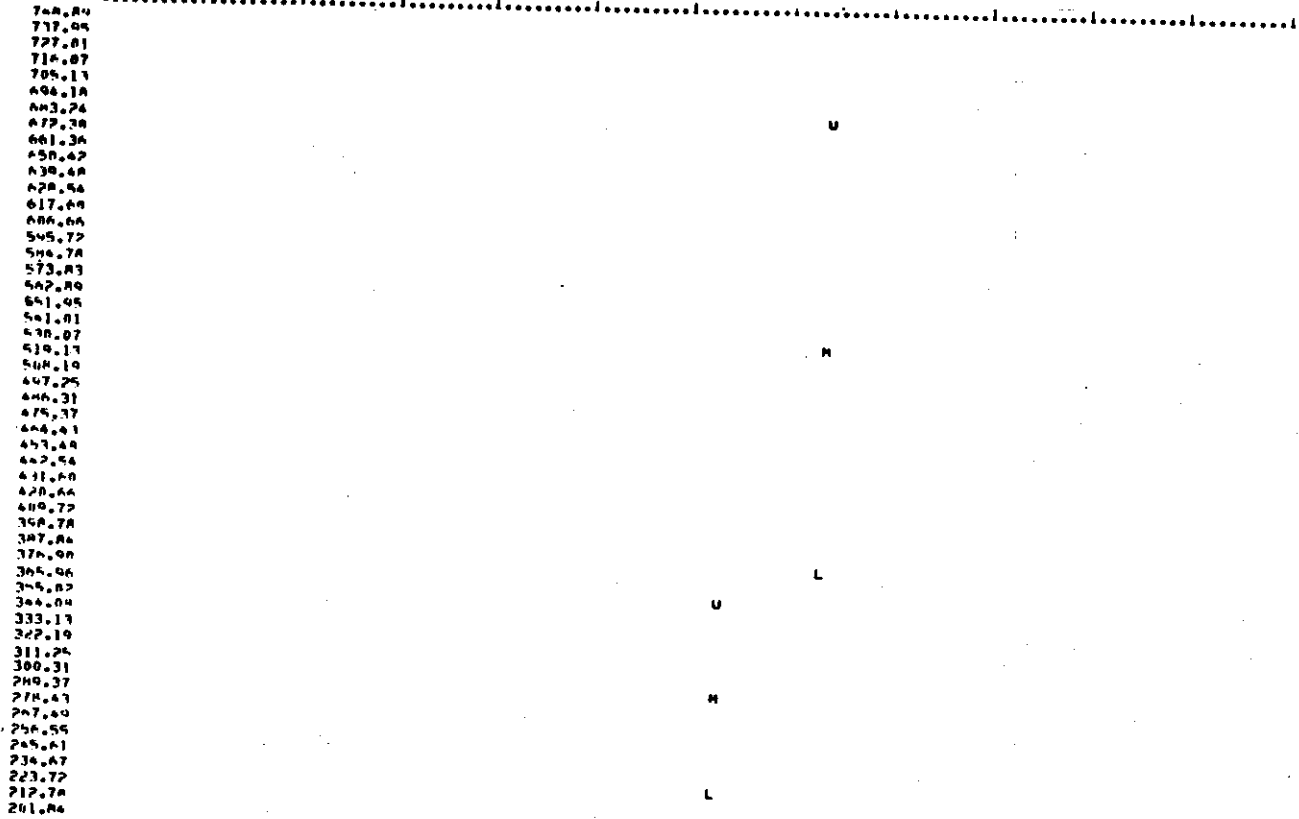
JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
115*	14	40.26	5.95	2.16	35.40	61.12
161**	12	22.95	4.94	2.21	12.05	33.86
203	12	40.34	7.94	2.21	20.01	62.67

*Sequence missing 1 cm of core length.
 **Sequence missing 3 cm of core length.

7.3.4 Treatment 1 calibration

Two sampling dates for treatment 1 are presented here as a treatment 1 calibration data set, TIC, for purposes of determining the relationship between crown material sampled from root cores and crown material sampled on a 1/4 square meter plot with the aboveground herbage. The data are therefore of two basic types; first the material that was collected from the root cores is reported for Julian dates 194 and 223. The number of cores on day 194 is 36, because this sampling date was also used as part of the bridge calibration data set, which is reported in the next section. The other sampling dates for treatment 1 all had 12 cores per date as does day 223. The following tables and graphs give the analysis for crowns only, roots only, and roots and crowns down to a depth of 10 cm. For purposes of comparison, the associated dates from the aboveground herbage biomass file also presented.

At first glance, it appears that there is a somewhat inverse relationship between the crowns sampled from the root cores and the crowns sampled with the aboveground herbage. But upon checking the chemical data library, it is found that the percent ash in the dry weight data from the aboveground herbage file for the first date is much greater than the percent ash in the dry weight data from the second date. Therefore, the apparent standing crop of crowns for the first date, as indicated by the dry weight estimate, is artificially high. In summary, the qualitative trend between the dry weight estimate and the ash-free weight estimate is approximately the same when appropriate consideration is made for the amount of ash in the dry weight estimate.



1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE 0

A-AXIS=JULIAN DATE FOR 1972

Y-AXIS=BELOW GROUND BIOMASS (G/M SO) FOR 0- 8 CM DEPTH

THESE DATA INCLUDE CHURN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PARCEL INT 1⁴ FOR 1972
(CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEL VALUE	LOWER LIMIT	UPPER LIMIT
194	36	291.81	33.69	2.00	224.21	359.35
223	12	527.55	69.00	2.21	374.28	680.01

*Data from belowground herbage biomass files.

407.87
 399.25
 395.62
 392.80
 388.37
 384.75
 381.12
 377.50
 373.87
 370.25
 366.62
 363.00
 359.37
 355.75
 352.12
 348.50
 344.87
 341.25
 337.62
 334.00
 330.37
 326.75
 323.12
 319.50
 315.87
 312.25
 308.62
 305.00
 301.37
 297.75
 294.12
 290.50
 286.87
 283.25
 279.62
 276.00
 272.37
 268.75
 265.12
 261.50
 257.87
 254.25
 250.62
 247.00
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 236.12
 232.50
 228.87
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 221.62

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 AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M²) FOR 0- 8 CM DEPTH
 THESE DATA INCLUDE CROWN MATERIAL

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 THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE CHANNEL INT 12 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M ²)	STANDARD ERROR	TET VALUE	LOWER LIMIT	UPPER LIMIT
196	11	308.30	25.91	2.24	250.35	300.25
222	12	303.44	25.94	2.21	240.25	300.74

*Data from aboveground herbage files.

1448.38
 1437.07
 1415.74
 1390.44
 1383.17
 1360.80
 1350.68
 1334.37
 1318.04
 1301.75
 1285.47
 1269.19
 1252.90
 1236.62
 1220.34
 1204.06
 1187.77
 1171.49
 1155.21
 1138.92
 1122.64
 1106.36
 1090.07
 1073.79
 1057.51
 1041.23
 1024.94
 1008.66
 992.38
 976.09
 959.81
 943.53
 927.24
 910.96
 894.68
 878.39
 862.11
 845.83
 829.55
 813.26
 796.98
 780.70
 764.41
 748.13
 731.85
 715.56
 699.28
 683.00
 666.72
 650.43
 634.15

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1.0 11.0 21.0 31.0 41.0 51.0 61.0 71.0 81.0 91.0 101.0 111.0 121.0 131.0 141.0 151.0 161.0 171.0 181.0 191.0 201.0 211.0 221.0 231.0 241.0 251.0 261.0 271.0 281.0 291.0 301.0 311.0 321.0 331.0 341.0 351.0

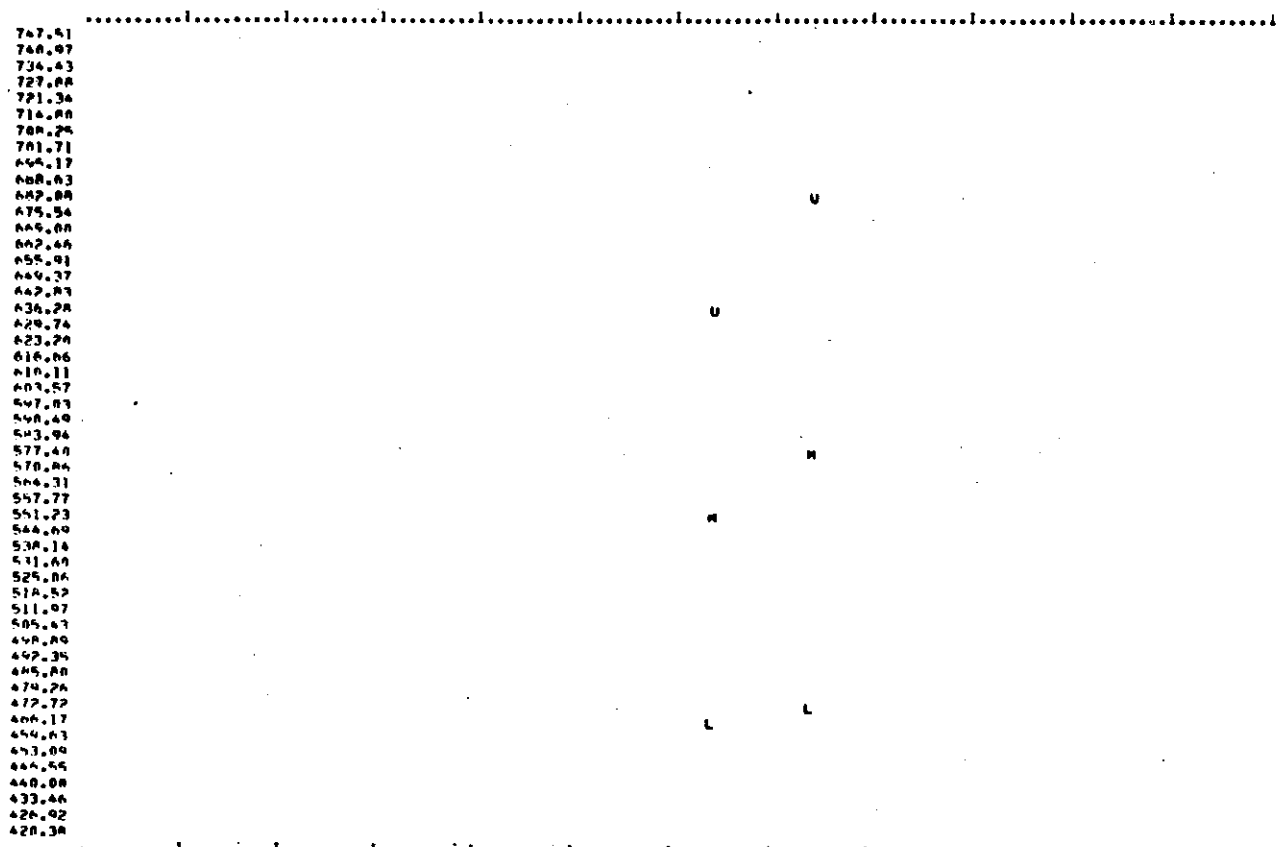
AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW-GROUND BIOMASS (G/M² SW) FOR 0-10 CM DEPTH

THESE DATA INCLUDE CHOWN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE. PANNING, TNT 1% FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M ² SW)	STANDARD ERROR	TOT VALUE	LOWER LIMIT	UPPER LIMIT
194	36	843.01	69.33	2.80	704.61	982.61
273	12	1104.32	96.23	2.21	892.01	1316.64

*Data from the belowground herbage files.



1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0
 AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0-10 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PARCEL TRT 1* FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEL VALUE	LOWER LIMIT	UPPER LIMIT
194	36	551.88	42.26	2.88	467.08	636.52
223	12	576.78	46.58	2.21	474.08	679.55

*Data from the belowground herbage files.

7.3.5 Bridge set

The following data sequence consisting of treatments 1, A, and B comprises the Pawnee bridge set for 1972. The bridge set attempted to relate the two areas of the Pawnee Site, which were sampled as treatment 1. The area designated as treatment 1 for the years 1969, 1970, and 1971 are represented in this sequence as treatment A. This sampling was in an exclosure, which had been in place for 30 years, on an Ascalon soil. The area which was designated as treatment 1 for 1972 is represented in this sequence as treatment 1. The area sampled in 1972 as treatment 1 was on a McGrew soil type, which had been enclosed for only 10 years. Treatment B, in this sequence, represents an intermediate area between treatment A and treatment 1, being on a McGrew soil type but in an exclosure which had been in place for 30 years. The bridge set had been sampled on only one date in mid-July 1972. Sampling was done on each of two replicates for each of the treatments included in the set. The core segmentation was a 0 to 0 cm level for the crowns and a 0 to 5 cm and 5 to 10 cm level for the roots. All the data were reported on an ash-free weight basis.

395.28
 391.41
 387.54
 383.67
 379.81
 375.94
 372.07
 368.20
 364.33
 360.46
 356.59
 352.72
 348.86
 344.99
 341.12
 337.25
 333.38
 329.51
 325.64
 321.77
 317.91
 314.04
 310.17
 306.30
 302.43
 298.56
 294.69
 290.82
 286.96
 283.09
 279.22
 275.35
 271.48
 267.61
 263.74
 259.87
 256.01
 252.14
 248.27
 244.40
 240.53
 236.66
 232.79
 228.92
 225.06
 221.19
 217.32
 213.45
 209.58
 205.71
 201.84

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 1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M²) FOR 0- 9 CM DEPTH
 THESE DATA INCLUDE CROWN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNING THT 1 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M ²)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
194	34	291.01	33.04	2.00	224.27	359.35

907.17
 890.34
 891.54
 887.73
 875.91
 868.10
 868.79
 852.48
 844.66
 838.84
 829.04
 821.23
 813.41
 805.60
 797.79
 789.97
 782.14
 774.35
 766.54
 758.72
 750.91
 743.10
 735.28
 727.47
 719.66
 711.85
 704.03
 696.22
 688.41
 680.60
 672.78
 664.97
 657.16
 649.34
 641.53
 633.72
 625.91
 618.09
 610.28
 602.47
 594.66
 586.84
 579.03
 571.22
 563.40
 555.59
 547.78
 539.97
 532.15
 524.34
 516.53

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 1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0
 AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0- 5 CM DEPTH

THESE DATA INCLUDE CHOWN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAMMER. TRT 1 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
194	36	699.31	62.34	2.00	573.92	824.70

1040.87
 1071.93
 1063.88
 1054.84
 1045.13
 1036.20
 1027.26
 1018.33
 1009.39
 1000.44
 991.52
 982.59
 973.65
 964.72
 955.79
 946.85
 937.92
 928.98
 920.05
 911.11
 902.18
 893.25
 884.31
 875.38
 866.44
 857.51
 848.57
 839.64
 830.71
 821.77
 812.84
 803.90
 794.97
 786.07
 777.10
 768.16
 759.23
 750.30
 741.36
 732.43
 723.40
 714.56
 705.62
 696.69
 687.76
 678.82
 669.89
 660.95
 652.02
 643.08
 634.15

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1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0-10 CM DEPTH
 THESE DATA INCLUDE CROWN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEL THT 1 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TET VALUE	LOWER LIMIT	UPPER LIMIT
194	36	843.01	69.33	2.00	704.61	982.01

700.17
 694.57
 688.98
 683.38
 677.78
 672.19
 666.59
 661.00
 655.40
 649.81
 644.21
 638.61
 633.02
 627.42
 621.83
 616.23
 610.63
 605.04
 599.44
 593.85
 588.25
 582.66
 577.06
 571.46
 565.87
 560.27
 554.68
 549.08
 543.48
 537.89
 532.29
 526.70
 521.10
 515.51
 509.91
 504.31
 498.72
 493.12
 487.53
 481.93
 476.33
 470.74
 465.14
 459.55
 453.95
 448.35
 442.76
 437.16
 431.57
 425.97
 420.38

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1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SO) FOR 0- 10 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEL. THT 1 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
194	36	551.80	42.20	2.00	467.00	636.52

523.03
 518.68
 514.33
 509.98
 505.61
 501.24
 496.86
 492.59
 488.24
 483.89
 479.54
 475.19
 470.84
 466.49
 462.14
 457.79
 453.44
 449.09
 444.74
 440.39
 436.04
 431.70
 427.35
 423.00
 418.65
 414.30
 409.95
 405.60
 401.25
 396.90
 392.55
 388.20
 383.85
 379.50
 375.15
 370.80
 366.46
 362.11
 357.76
 353.41
 349.06
 344.71
 340.36
 336.01
 331.66
 327.31
 322.96
 318.61
 314.26
 309.91
 305.56

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1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0- 5 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE MAWNEE INT 1 FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	T&E VALUE	LOWER LIMIT	UPPER LIMIT
194	36	487.58	33.91	2.80	339.52	475.48

190.64
188.74
187.01
185.28
183.55
181.82
180.09
178.36
176.62
174.89
173.16
171.43
169.70
167.97
166.23
164.50
162.77
161.04
159.31
157.58
155.84
154.11
152.38
150.65
148.92
147.19
145.45
143.72
141.99
140.26
138.53
136.80
135.07
133.33
131.60
129.87
128.14
126.41
124.68
122.94
121.21
119.48
117.75
116.02
114.29
112.55
110.82
109.09
107.36
105.63
103.90

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1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE =
X-AXIS=JULIAN DATE FOR 1972
Y-AXIS=BELOW GROUND BIOMASS (G/M SU) FOR 5- 10 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNLE. THT 1 FOR 1972
(CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SU)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
194	36	144.30	14.40	2.00	115.44	173.16

411.84
 407.34
 402.84
 408.34
 403.84
 400.34
 404.84
 406.84
 475.00
 471.00
 466.90
 462.40
 457.90
 453.40
 448.91
 444.41
 439.91
 435.41
 430.91
 426.41
 421.91
 417.41
 412.92
 408.42
 403.92
 399.42
 394.92
 390.42
 385.92
 381.43
 376.93
 372.43
 367.93
 363.43
 358.93
 354.43
 349.94
 345.44
 340.94
 336.44
 331.94
 327.44
 322.94
 318.45
 313.95
 309.45
 304.95
 300.45
 295.95
 291.45
 286.96

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1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE -
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M²) FOR 0- 0 CM DEPTH

THESE DATA INCLUDE CROWN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAVNLEE, INT A FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M ²)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
192	36	392.10	36.54	2.00	318.64	465.35

1051.73
 1044.15
 1036.57
 1028.99
 1021.41
 1013.84
 1006.26
 998.68
 991.10
 983.52
 975.94
 968.37
 960.79
 953.21
 945.63
 938.05
 930.47
 922.89
 915.31
 907.73
 900.15
 892.57
 885.00
 877.42
 869.84
 862.27
 854.69
 847.11
 839.53
 831.95
 824.37
 816.79
 809.21
 801.63
 794.05
 786.47
 778.89
 771.31
 763.73
 756.15
 748.57
 741.00
 733.42
 725.84
 718.26
 710.68
 703.10
 695.52
 687.94
 680.36
 672.78

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1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M²) FOR 0- 5 CM DEPTH

THESE DATA INCLUDE CROWN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEL THT A FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M ²)	STANDARD ERROR	TET VALUE	LOWER LIMIT	UPPER LIMIT
192	36	851.85	52.01	2.00	747.58	956.11

1244.04
 1235.97
 1227.07
 1218.57
 1210.07
 1201.54
 1193.04
 1184.54
 1176.04
 1167.50
 1159.00
 1150.00
 1142.10
 1133.60
 1125.11
 1116.61
 1108.11
 1099.62
 1091.12
 1082.62
 1074.12
 1065.63
 1057.13
 1048.63
 1040.14
 1031.64
 1023.14
 1014.65
 1006.15
 997.65
 989.16
 980.66
 972.16
 963.67
 955.17
 946.67
 938.18
 929.68
 921.18
 912.68
 904.19
 895.69
 887.19
 878.70
 870.20
 861.70
 853.21
 844.71
 836.21
 827.72
 819.22

1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

ARIS LABELS FOR THIS PLOT ARE *
 X-ARIS=JULIAN DATE FOR 1972
 Y-ARIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0- 10 CM DEPTH

THESE DATA INCLUDE CROWN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAVNLEE, TMT A FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
192	36	1020.00	55.05	2.00	910.24	1130.97

746.17
 741.64
 737.14
 732.65
 728.14
 723.63
 719.12
 714.62
 710.11
 705.60
 701.10
 696.59
 692.08
 687.58
 683.07
 678.56
 674.05
 669.55
 665.04
 660.53
 656.03
 651.52
 647.01
 642.51
 638.00
 633.49
 628.98
 624.48
 619.97
 615.46
 610.96
 606.45
 601.94
 597.44
 592.93
 588.42
 583.91
 579.41
 574.90
 570.39
 565.89
 561.38
 556.87
 552.37
 547.86
 543.35
 538.84
 534.34
 529.83
 525.32
 520.82

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1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0- 10 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE. PARAMETER THT A FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TET VALUE	LOWER LIMIT	UPPER LIMIT
192	36	628.51	24.85	2.00	578.69	678.33

556.81
 557.34
 548.40
 545.87
 541.34
 537.68
 534.87
 530.34
 526.68
 523.81
 519.34
 515.68
 512.81
 508.34
 504.67
 501.80
 497.34
 493.67
 490.80
 486.33
 482.64
 479.88
 475.31
 471.66
 467.99
 464.32
 460.65
 456.99
 453.32
 449.65
 445.98
 442.31
 438.65
 434.98
 431.31
 427.64
 423.97
 420.31
 416.64
 412.97
 409.30
 405.63
 401.96
 398.30
 394.63
 390.96
 387.29
 383.62
 379.96
 376.29
 372.62

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 1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

 AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0- 5 CM DEPTH

THESE DATA INCLUDE POOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNON. TRI A FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
192	36	459.75	22.81	2.00	414.02	505.48

207.90
 206.41
 204.93
 203.45
 201.96
 200.48
 198.99
 197.51
 196.02
 194.54
 193.05
 191.57
 190.08
 188.60
 187.11
 185.63
 184.15
 182.66
 181.18
 179.69
 178.21
 176.72
 175.24
 173.75
 172.27
 170.78
 169.30
 167.81
 166.33
 164.84
 163.36
 161.88
 160.39
 158.91
 157.42
 155.94
 154.45
 152.97
 151.48
 150.00
 148.51
 147.03
 145.54
 144.06
 142.58
 141.09
 139.61
 138.12
 136.64
 135.15
 133.67

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1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

ARIS LANFLS FOR THIS PLOT ARE X
 X=ARIS=JULIAN DATE FOR 1972
 Y=ARIS=BELOW GROUND BIOMASS (G/M SO) FOR 5- 10 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEL THT A FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
192	36	168.76	10.70	2.00	148.52	189.00

500.92
 501.66
 496.39
 491.13
 485.87
 480.61
 475.35
 470.09
 464.82
 459.56
 454.30
 449.04
 443.78
 438.51
 433.25
 427.99
 422.73
 417.47
 412.21
 406.94
 401.68
 396.42
 391.16
 385.90
 380.63
 375.37
 370.11
 364.85
 359.59
 354.32
 349.06
 343.80
 338.54
 333.28
 328.02
 322.76
 317.50
 312.23
 306.97
 301.71
 296.44
 291.18
 285.92
 280.66
 275.40
 270.13
 264.87
 259.61
 254.35
 249.09
 243.83

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 1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0
 AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SU) FOR 0- 8 CM DEPTH

THESE DATA INCLUDE CHURN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNLE, INT H FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SU)	STANDARD ERROR	TEL VALUE	LOWER LIMIT	UPPER LIMIT
193	36	365.88	47.37	2.00	270.92	460.83

1029.51
 1011.67
 1007.02
 993.98
 985.14
 976.29
 967.44
 958.60
 949.76
 940.91
 932.07
 923.22
 914.38
 905.53
 896.69
 887.84
 879.00
 870.15
 861.31
 852.46
 843.62
 834.77
 825.93
 817.08
 808.24
 799.39
 790.55
 781.70
 772.86
 764.02
 755.17
 746.33
 737.48
 728.64
 719.79
 710.95
 702.10
 693.26
 684.41
 675.57
 666.72
 657.88
 649.03
 640.19
 631.34
 622.50
 613.65
 604.81
 595.96
 587.12
 578.27

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1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0- 5 CM DEPTH

THESE DATA INCLUDE CROWN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEL THT B FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
193	36	785.13	71.13	2.00	642.53	927.74

1231.27
 1232.99
 1222.69
 1212.41
 1202.12
 1191.84
 1181.55
 1171.27
 1160.99
 1150.70
 1140.41
 1130.12
 1119.84
 1109.55
 1099.27
 1088.99
 1078.70
 1068.41
 1058.13
 1047.84
 1037.56
 1027.27
 1016.99
 1006.70
 996.41
 986.13
 975.84
 965.56
 955.27
 944.99
 934.70
 924.41
 914.13
 903.84
 893.56
 883.27
 872.99
 862.70
 852.42
 842.13
 831.85
 821.56
 811.27
 800.99
 790.70
 780.42
 770.13
 759.85
 749.56
 739.27
 728.99

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1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE =
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SQ) FOR 0- 10 CM DEPTH

THESE DATA INCLUDE CHOWN MATERIAL

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNED TMT H FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SQ)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
193	36	970.12	79.87	2.00	804.99	1130.24

750.00
 745.35
 739.89
 734.24
 728.69
 723.14
 717.58
 712.03
 706.48
 700.93
 695.37
 690.82
 684.27
 678.71
 673.16
 667.61
 662.06
 656.50
 650.95
 645.40
 639.84
 634.29
 628.74
 623.18
 617.63
 612.08
 606.53
 600.97
 595.42
 589.87
 584.31
 578.76
 573.21
 567.66
 562.10
 556.55
 551.00
 545.44
 539.89
 534.34
 528.79
 523.23
 517.68
 512.13
 506.57
 501.02
 495.47
 489.91
 484.36
 478.81
 473.26

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1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0
 AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M SO) FOR 0-10 CM DEPTH

THESE DATA INCLUDE ROOT MATERIAL ONLY.

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNEL, THT R FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M SO)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
193	30	604.24	39.11	2.00	525.84	602.64

524.53
 524.40
 528.78
 516.15
 512.63
 507.90
 503.77
 499.65
 495.52
 491.40
 487.27
 483.14
 479.02
 474.89
 470.77
 466.64
 462.51
 458.39
 454.26
 450.14
 446.01
 441.89
 437.76
 433.63
 429.51
 425.38
 421.25
 417.13
 413.00
 408.88
 404.75
 400.62
 396.50
 392.37
 388.25
 384.12
 379.99
 375.87
 371.74
 367.62
 363.49
 359.36
 355.24
 351.11
 346.99
 342.86
 338.73
 334.61
 330.48
 326.36
 322.23

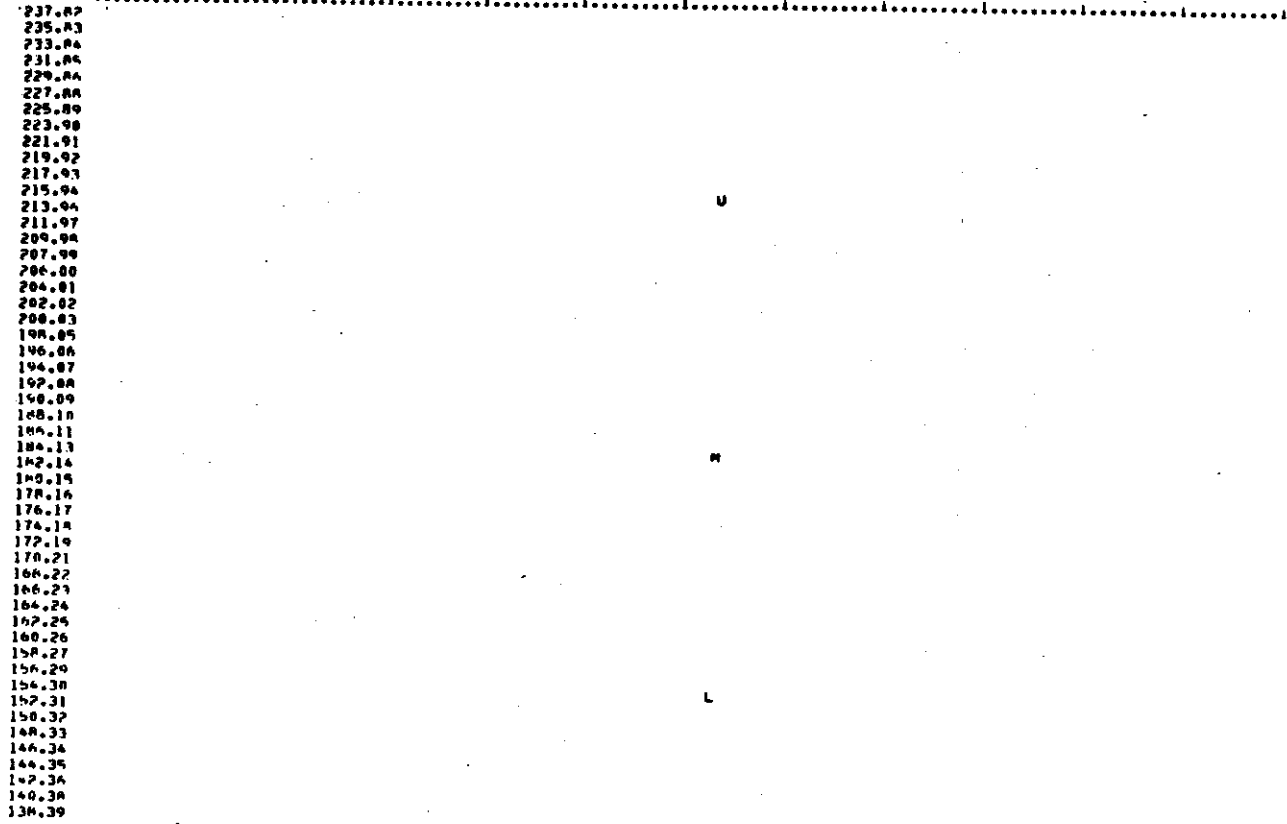
1.0 31.0 61.0 91.0 121.0 151.0 181.0 211.0 241.0 271.0 301.0 331.0 361.0

AXIS LABELS FOR THIS PLOT ARE:
 X-AXIS=JULIAN DATE FOR 1972
 Y-AXIS=BELOW GROUND BIOMASS (G/M²) FOR 0- 5 CM DEPTH

THESE DATA INCLUDE POOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PAVNLE, TRI B FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M ²)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
193	30	419.26	30.54	2.00	356.03	480.48



.....

THESE DATA INCLUDE ROOT MATERIAL ONLY

THESE DATA REPRESENT BELOW-GROUND BIOMASS SAMPLING ON SITE PANNELE TRT b FOR 1972
 (CONFIDENCE BAND CALCULATED AT THE 95 PERCENT LEVEL)

JULIAN DATE	NUMBER OF VALUES/MEAN	TREATMENT MEAN (G/M 50)	STANDARD ERROR	TEE VALUE	LOWER LIMIT	UPPER LIMIT
193	36	184.98	15.57	2.00	153.76	216.20

CHAPTER 8. SYNOPSIS OF DATA STATUS

The data presented in this technical report are considered to be the result of a first major step in producing clean, comparable data sets which can be used with a minimal amount of effort and computer programming exceptions. The resulting data files are considered to be a high fidelity reproduction of the original archival data with obvious anomalies, missing data points, corrected either by filling in blanks with estimates or correcting data points which were misspunched from the data forms. Further modifications of the data are imminent. These modifications would be primarily various kinds of biological cleanup. These kinds of cleanup would often be subjective or use a variety of outlier tests determined by the particular use to which the data are being tailored. It is conceivable that this type of cleanup would lead to many different versions of the data each applicable to a particular use. Therefore, I believe the technically cleaned data set is the best all-around usable data set for belowground herbage biomass, currently available in the Grassland Biome.

APPENDIX I

KEY TO 14 SITE YEARS OF BELOWGROUND HERBAGE BIOMASS DATA--A GENERAL INDICATION OF WHAT TREATMENTS WERE SAMPLED, WHERE THEY WERE SAMPLED, WHEN THEY WERE SAMPLED, AND TO WHAT DEPTH THEY WERE SAMPLED

Site/Year	Sampling Frequency and Core Segmentation		Crown Disposition and Comments	Original Data File Location
	Date ^{1/}	Treatment		
DICKINSON (5)				
1970	260570*	1,4		
	150670	1,4		
	250670	1,4		
	090770	1,4		
	300770*	1,4		
	100870	1,4	1) Crowns reported with standing dead.	Bank file on A030 under DICBB70DAT
	190870	1,4	2) 1474 Rcds.	
	*Rep 1 only: 0-5, 5-10, 10-20, 20-30, 30-40, 40-50, 50-60, 60-70, 70-80, 80-90, 90-100 cm			
HAYS (6)				
1970	260170	1,5	1) Crowns included in 0-5 cm level.	Bank file on A030 under HAYBB70DAT
	150270	1,5		
	150370	1,5	2) Oven-dried wt only.	
	150470	1,5	3) 660 Rcds.	
	150570	1		
	010570	5		
	010670	1,5		
	010770	1,5		
	010870	1,5		
	010970	1,5		
	011070	1,5		
	011170	1,5		
	0-5, 5-10, 10-15 cm			
JORNADA (8)				
1970	140770	1,5	1) Crowns included in 0-10 cm level.	Bank file on A030 under JORBB70DAT
	300770	1,5		
	100870	1,5	2) 840 Rcds.	
	200870	1,5		
	010970	1,5		
	260970	1,5		
	021270	1,5		
	0-10, 10-20, 20-30 cm Sometimes to odd depths, e.g., 28 cm			
JORNADA (8)				
1971	120171	1,5	1) Crowns included in 0-10 cm level.	Bank file on A030 under JORBB71DAT
	190271	1,5		
	180571	1,5	2) Trt 1 Rep 1 sampled 090971 and Rep 2 on 180971, a spread of greater than 5 days.	
	050871	1,5		
	230871	1,5		
	230871	1,5		
	150971	1,5	3) Hard pan layer: When cored - 0.0 entered in weight fields. If core couldn't penetrate, fields left blank and level recorded as 0.0 length.	
	131071	1,5		
	221271	1,5		
	0-10, 10-20, 20-30 cm Sometimes to odd depths, e.g. 26 cm			

Site/Year	Sampling Frequency and Core Segmentation		Crown Disposition and Comments	Original Data File Location
	Date ^{1/}	Treatment		
JORNADA (8) 1971 (Cont.)			4) Trt 6 for the last four sample dates Change to trt 5 as per personal communication with Rex Pieper 240174.	
JORNADA (8) 1972	290372 170572 210872 071072	1,5	1) Crowns included in 0-10 cm level 2) 480 Rcds	
OSAGE (9) 1970	170670 160770 170870 290970 241170	1,5 1,5 1,5 1,5 1,5 Two coring depths 0-90 cm: 0-5, 5-10, 10-20, 20-30, 30-50, 50-70, 70-90 0-50 cm: 0-5, 5-10, 10-20, 20-50	1) Crowns separated out Bank file on and ash-free wt is A030 under reported as the 0-0 OSABB70DAT cm level. 2) Generally five cores/rep/sampling date. 3) One or two of these cores were taken to 90 cm with the remainder going only to 50 cm. 4) Core diameter in data file is 5 cm but should be 4.5 cm according to to Osage. 5) Quadrat size should be 0.5 m ² in all cases. 6) The total of two cores/quadrat is recorded in the weight fields, but it appears to be only one core/quadrat as far as the data file looks; therefore, results based on an assumed one core/quadrat would be twice as large as they should be. 7) Random ash-free wt missing due to sample being used for calorimetric determinations. 8) 572 Rcds.	

Site/Year	Sampling Frequency and Core Segmentation		Crown Disposition and Comments	Original Data File Location
	Date ^{1/}	Treatment		
OSAGE (9) 1971	310371	1,6	1) Crown separated and reported as 0-0 level dry wt ash wt. 2) Core diameter in data file is 5 cm, but should be 4.5 cm according to Osage. 3) Quadrat size should be 0.5 m ² in all cases. 4) The total of four cores/quadrat is recorded in the weight field, but it appears to be one core/quadrat, on the data file; therefore, the results based on an assumed one core/quadrat would be four times as large as they should be. 5) 239 Rcds	Bank file on A030 under OSABB71DAT
	180671	1,6		
	190871	1,6		
	101071	1,6		
		0-0, 0-5, 5-10, 10-20, 20-50 cm		
OSAGE (9) 1972	150572	1,5	1) Crowns separated and included with AGBM ^{2/} as species CRWN-ash-free, instead as 0-0 cm level in belowground. 2) Quadrat size should be 0.5 m ² . 3) The total of three cores/quadrat is recorded in the weight fields, but appears to be only one core/quadrat on the data file for day 150572 and 141172 but four cores/quadrat are recorded for days 050772 and 080872 except for day 050772 trt 5, plot G1-1 which has three cores for 0-5, 5-10, 10-20 cm levels and four cores for the 20-50 cm level. 4) 311 Rcds.	
	050772	1,5		
	080872	1,5		
	141172			
		0-5, 5-10, 10-20, 20-50 cm		

Site/Year	Sampling Frequency and Core Segmentation		Crown Disposition and Comments	Original Data File Location
	Date ^{1/}	Treatment		
PANTEX (10) 1970	020670	3,5	1) Crown dry wt included as 0-0 cm level. 2) 859 Rcds	Bank file on A030 under PANBB70DAT
	300670	1,3,5		
	270770	1,3,5		
		0-5, 5-10, 10-20, 20-30, 30-40, 40-50 (50-60, 60-70 cm)		
PANTEX (10) 1971	160571	1,3	1) Crowns reported with AGBM, not ashed, included as 0-0 cm level. 2) 480 Rcds - BOGR. 480 Rcds - OPPO.	Data on cards from Richard L. Shipley
	280671	1,3		
	060871	1,3		
	061171	1,3		
		0-10, 10-20, 20-30 cm		
PANTEX (10) 1972	220472	1,3	1) Crowns reported with AGBM, not ashed, included as 0-0 cm level. 2) 621 Rcds - BOGR. 622 Rcds - OPPO.	Data on cards from Richard L. Shipley
	200672	1,3		
	310772	1,3		
	090972	1,3		
		0-0, 0-10, 10-20, 20-30, 30-40, 40-50, 50-60 cm		
PAWNEE (11) 1970	240470	1,2,3,4	1) Crowns included in 0-10 cm level, ash-free weight 2) 2478 Rcds Trt 1-4 1522 Rcds Trt D-G	Trt 1,2,3,4 BCD file #2 on D607 Trt D,E,F,G BCD file #10 on A153
	280470*	D,E,F,G		
	080570	1,2,3,4		
	160570	D,E,F,G		
	220570	1,2,3,4		
	280570	D,E,F,G		
	040670	1,2,3,4		
	100670	D,E,F,G		
	190670	1,2,3,4		
	240670**	D,E,F,G		
	020770*	1,2,3,4		
	090770*	D,E,F,G		
	170770	1,2,3,4		
	220770	D,E,F,G		
	290770	1,2,3,4		
	050870	D,E,F,G		
	120870	1,2,3,4		
	190870	D,E,F,G		
	260870*	1,2,3,4		

Site/Year	Sampling Frequency and Core Segmentation		Crown Disposition and Comments	Original Data File Location
	Date ^{1/}	Treatment		
PAWNEE (11) 1970 (cont.)	010970*	D,E,F,G		
	120970	1,2,3,4		
	170970	0-10 cm, D,E,F,G *0-10, 10-20, 20-40 40-60, 60-80 cm **0-10 cm, some 10-20 20-30 cm on Rep 1		
PAWNEE (11) 1971	030471	1,2,3,4	1) Crowns reported as 0-0 level ash-free weight, except for one set. The data show that crowns were recorded as zero's or blanks for the following sampling 010471: Trt 1 Rep 1 010471 Rep 2 030471 Trt 2 Rep 1 030471 Rep 2 030471 Trt 3 Rep 1 030471 Rep 2 030471 Trt 4 Rep 1 010471 Rep 2 030471 Therefore, it is believed that these are the samples for which crowns are lumped with the 0-5 cm level. 2) 2160 Rcds-Trt 1 1023 Rcds-Trt 2 1012 Rcds-Trt 3 1023 Rcds-Trt 4 1440 Rcds-Trt 6 4566 Rcds-Trt D,E,F,G 1354 Rcds-Trt K,L,M,N	Bank file on D468 as PAWBB71DAT
	230471	D,F		
	050571	1		
	060571	6		
	140571	2,3,4		
	200571	6		
	210571	1		
	030671	1		
	030671*	F,G		
	040671*	D		
	050671	6		
	070671	E		
	140671	1		
	150671	6		
	240671*	4		
	250671*	2		
	280671*	3		
	300671	1		
	010771	6		
	060771	1		
	070771*	L,M		
	080771*	K		
	090771*	N		
	160771	1,6		
	260771	D,E,F,G		
	270771	6		
	290771	1		
	100871*	L,M,N		
	110861*	K		
	130871	4		
	160871	3		
	180871	2		
	190871	1		
	260871	6		
	080971*	D,F		
	100971*	E,G		

Site/Year	Sampling Frequency and Core Segmentation		Crown Disposition and Comments	Original Data File Location
	Date ^{1/}	Treatment		
PAWNEE (11)				
1971 (cont.)	150971	1,6		
	061071	1		
	141071	6		
	231071*	1,2,3,4		
	061171*	K,L,M		
	291171	D,E,F,G		
	111271	G		
	141271	F		
	161271	E		
	181271	D		
	211271	6		
	221271	1		
		0-0, 0-5, and 5-10 cm		
		*0-0, 0-5, 5-10, 10-20,		
		20-30, 30-40, 40-50, and		
		sometimes 50-60,		
		sometimes 60-70, and		
		sometimes 70-80 cm		
PAWNEE (11)				
1972	040472	D,F,G	Crowns separated and reported as 0-0 cm	BCD Files #1529
	100472	D		
	060472	E	level ash-free Trt 2,	40 Inclusive on
	180472	2	4,D,E,F,G,K,L,M,N	A717.
	250472*	K,L	Crowns separated and taken from above-	ground file, dry weight only, Trt 1, 5.
	270472*	M		
	020572	D,E,F,G		
	190572*	1,5,4		
	250572*	D,E,F,G		
	090672*	K,L,M		
	130672	D,E,F,G		
	270672*	1,2,4		
	050772*	D,E,F,G		
	100772	A		
	120772	1,8		
	180772*	2,4		
	210772*	K,L,M		
	240772	D,E,F,G		
	100872*	1,2,4		
	140872*	D,E,F,G		
	280872*	1,5		
	050972	D,E,F,G		
	140972*	1,2,4		
	091072	D,E,F,G		
	081172*	1.5		

Site/Year	Sampling Frequency and Core Segmentation		Crown Disposition and Comments	Original Data File Location
	Date ^{1/}	Treatment		
PAWNEE (11) 1972 (cont.)		0-0, 0-5, 5-10 cm or *0-10, 10-20, 20-30, 30-40, and sometimes 40-50, and sometimes 50-60, and sometimes 60-70 cm.		

^{1/}There may be a few days' inconsistency in sampling dates throughout this table since the Reps within the treatment were often sampled on different days. Sometimes the date for one rep is used for the trt date and sometimes the other date is used. In the Jan. BGDNTRT summary print outs it was assumed that the second rep was sampled within ±5 days of the first rep.

^{2/}Aboveground biomass.

APPENDIX II

STRUCTURAL SUMMARIES OF THE DATA FILES--PRIMARILY AN
AID FOR THOSE WISHING TO MANIPULATE THE DATA FILES

Site Code	Site
5	Dickinson
6	Hays
8	Jornada
9	Osage
10	Pantex
11	Pawnee

STRUCTURAL SUMMARY OF DATA FILE CONTENTS
(N=NUMBER OF RECORDS-NOT NUMBER OF CORES)

SITE CODE	N	TREATMENT	N	REPLICATE	N	DATE	N
5	55	1	55	1	55	260570	55
5	110	1	110	1	55	150670	55
5	165	1	165	2	55	150670	110
5	220	1	220	1	55	250670	55
5	275	1	275	2	55	260670	110
5	341	1	341	1	66	90770	66
5	407	1	407	2	66	90770	132
5	473	1	473	1	66	300770	66
5	539	1	539	1	66	100870	66
5	605	1	605	2	66	100870	132
5	671	1	671	1	66	190870	66
5	737	1	737	2	66	190870	132
5	792	4	55	1	55	260570	55
5	847	4	110	1	55	150670	55
5	902	4	165	2	55	150670	110
5	957	4	220	1	55	260670	55
5	1012	4	275	2	55	260670	110
5	1078	4	341	1	66	90770	66
5	1144	4	407	2	66	90770	132
5	1210	4	473	1	66	300770	66
5	1276	4	539	1	66	100870	66
5	1342	4	605	2	66	100870	132
5	1408	4	671	1	66	190870	66
5	1474	4	737	2	66	190870	132

STRUCTURAL SUMMARY OF DATA FILE CONTENTS
(N=NUMBER OF RECORDS-NOT NUMBER OF CUBES)

SITE CODE	N	TREATMENT	N	REPLICATE	N	DATE	N
6	30	1	30	1	30	260170	30
6	45	1	45	1	15	150270	15
6	60	1	60	2	15	150270	30
6	75	1	75	1	15	150370	15
6	90	1	90	2	15	150370	30
6	105	1	105	1	15	150470	15
6	120	1	120	2	15	150470	30
6	135	1	135	1	15	150570	15
6	150	1	150	2	15	150570	30
6	165	1	165	1	15	10670	15
6	180	1	180	2	15	10670	30
6	195	1	195	1	15	10770	15
6	210	1	210	2	15	10770	30
6	225	1	225	1	15	10870	15
6	240	1	240	2	15	10870	30
6	255	1	255	1	15	10970	15
6	270	1	270	2	15	10970	30
6	285	1	285	1	15	11070	15
6	300	1	300	2	15	11070	30
6	315	1	315	1	15	11170	15
6	330	1	330	2	15	11170	30
6	360	5	30	1	30	260170	30
6	375	5	45	1	15	150270	15
6	390	5	60	2	15	150270	30
6	405	5	75	1	15	150370	15
6	420	5	90	2	15	150370	30
6	435	5	105	1	15	150470	15
6	450	5	120	2	15	150470	30
6	465	5	135	1	15	10570	15
6	480	5	150	2	15	10570	30
6	495	5	165	1	15	10670	15
6	510	5	180	2	15	10670	30
6	525	5	195	1	15	10770	15
6	540	5	210	2	15	10770	30
6	555	5	225	1	15	10870	15
6	570	5	240	2	15	10870	30
6	585	5	255	1	15	10970	15
6	600	5	270	2	15	10970	30
6	615	5	285	1	15	11070	15
6	630	5	300	2	15	11070	30
6	645	5	315	1	15	11170	15
6	660	5	330	2	15	11170	30

STRUCTURAL SUMMARY OF DATA FILE CONTENTS
(N=NUMBER OF RECORDS-NOT NUMBER OF CORES)

SITE CODE	N	TREATMENT	N	REPLICATE	N	DATE	N
R	30	1	30	1	30		
R	60	1	60	2	30	140770	30
R	90	1	90	1	30	140770	60
R	120	1	120	2	30	300770	30
R	150	1	150	1	30	300770	60
R	180	1	180	2	30	100870	30
R	210	1	210	1	30	100870	60
R	240	1	240	2	30	200870	30
R	270	1	270	1	30	200870	60
R	300	1	300	2	30	10970	30
R	330	1	330	1	30	10970	60
R	360	1	360	2	30	260970	30
R	390	1	390	1	30	260970	60
R	420	1	420	2	30	21270	30
R	450	5	30	1	30	21270	60
R	480	5	60	2	30	150770	30
R	510	5	90	1	30	150770	60
R	540	5	120	2	30	310770	30
R	570	5	150	1	30	310770	60
R	600	5	180	2	30	110870	30
R	630	5	210	1	30	110870	60
R	660	5	240	2	30	210870	30
R	690	5	270	1	30	210870	60
R	720	5	300	2	30	20970	30
R	750	5	330	1	30	20970	60
R	780	5	360	2	30	260970	30
R	810	5	390	1	30	260970	60
R	840	5	420	2	30	21270	30
						21270	60

STRUCTURAL SUMMARY OF DATA FILE CONTENTS
(N=NUMBER OF RECORDS-NOT NUMBER OF CURES)

SITE CODE	N	TREATMENT	N	REPLICATE	N	DATE	N
8	30	1	30	1	30	120171	30
8	60	1	60	2	30	120171	60
8	90	1	90	1	30	190271	30
8	120	1	120	2	30	200271	60
8	150	1	150	1	30	180571	30
8	180	1	180	2	30	180571	60
8	210	1	210	1	30	50871	30
8	240	1	240	2	30	50871	60
8	270	1	270	1	30	200871	30
8	300	1	300	2	30	230871	60
8	330	1	330	1	30	110971	30
8	360	1	360	2	30	180971	30
8	390	1	390	1	30	131071	30
8	420	1	420	2	30	131071	60
8	450	1	450	1	30	221271	30
8	480	1	480	2	30	221271	60
8	510	5	30	1	30	130171	30
8	540	5	60	2	30	130171	60
8	570	5	90	1	30	200271	30
8	600	5	120	2	30	200271	60
8	630	5	150	1	30	180571	30
8	660	5	180	2	30	190571	60
8	690	5	210	1	30	50871	30
8	720	5	240	2	30	50871	60
8	750	5	270	1	30	240871	30
8	780	5	300	2	30	240871	60
8	810	5	330	1	30	160971	30
8	840	5	360	2	30	170971	60
8	870	5	390	1	30	131071	30
8	900	5	420	2	30	131071	60
8	930	5	450	1	30	221271	30
8	960	5	480	2	30	221271	60

STRUCTURAL SUMMARY OF DATA FILE CONTENTS
(N=NUMBER OF RECORDS-NOT NUMBER OF CORES)

SITE CODE	N	TREATMENT	N	REPLICATE	N	DATE	N
8	30	1	30	1	30	290372	30
8	60	1	60	2	30	290372	60
8	90	1	90	1	30	170572	30
8	120	1	120	2	30	170572	60
8	150	1	150	1	30	210872	30
8	180	1	180	2	30	250872	60
8	210	1	210	1	30	71072	30
8	240	1	240	2	30	71072	60
8	270	5	30	1	30	290372	30
8	300	5	60	2	30	290372	60
8	330	5	90	1	30	170572	30
8	360	5	120	2	30	170572	60
8	390	5	150	1	30	230872	30
8	420	5	180	2	30	290872	60
8	450	5	210	1	30	71072	30
8	480	5	240	2	30	71072	60

STRUCTURAL SUMMARY OF DATA FILE CONTENTS
(N=NUMBER OF RECORDS-NOT NUMBER OF CORES)

SITE CODE	N	TREATMENT	N	REPLICATE	N	DATE	N
9	29	1	29	1	29	170670	29
9	56	1	56	2	27	170670	56
9	85	1	85	1	29	160770	29
9	112	1	112	2	27	160770	56
9	141	1	141	1	29	170870	29
9	168	1	168	2	27	170870	56
9	197	1	197	1	29	290970	29
9	224	1	224	2	27	290970	56
9	251	1	251	1	27	241170	27
9	278	1	278	2	27	241170	54
9	305	5	27	1	27	170670	27
9	332	5	54	2	27	170670	54
9	359	5	81	1	27	160770	27
9	386	5	108	2	27	160770	54
9	413	5	135	1	27	170870	27
9	440	5	162	2	27	170870	54
9	467	5	189	1	27	290970	27
9	494	5	216	2	27	290970	54
9	521	5	243	1	27	241170	27
9	548	5	270	2	27	241170	54

STRUCTURAL SUMMARY OF DATA FILE CONTENTS
(N=NUMBER OF RECORDS-NOT NUMBER OF CORES)

SITE CODE	N	TREATMENT	N	REPLICATE	N	DATE	N
9	15	1	15	1	15	310371	15
9	30	1	30	2	15	310371	30
9	45	1	45	1	15	180671	15
9	60	1	60	2	15	180671	30
9	75	1	75	1	15	190871	15
9	90	1	90	2	15	190871	30
9	105	1	105	1	15	101071	15
9	120	1	120	2	15	101071	30
9	135	5	15	1	15	310371	15
9	149	5	29	2	14	310371	29
9	164	5	44	1	15	180671	15
9	179	5	59	2	15	180671	30
9	194	5	74	1	15	190871	15
9	209	5	89	2	15	190871	30
9	224	5	104	1	15	101071	15
9	239	5	119	2	15	101071	30

STRUCTURAL SUMMARY OF DATA FILE CONTENTS
(N=NUMBER OF RECORDS-NOT NUMBER OF CORES)

SITE CODE	N	TREATMENT	N	REPLICATE	N	DATE	N
9	5	1	5	1	5	220472	5
9	10	1	10	2	5	220472	10
9	27	1	27	1	17	150572	17
9	44	1	44	2	17	150572	34
9	47	1	47	1	3	60672	3
9	50	1	50	2	3	60672	6
9	65	1	65	1	15	50772	15
9	80	1	80	2	15	50772	30
9	95	1	95	1	15	80872	15
9	110	1	110	2	15	70872	30
9	113	1	113	1	3	20972	3
9	116	1	116	2	3	20972	6
9	130	1	130	1	14	141172	14
9	145	1	145	2	15	141172	29
9	150	5	5	1	5	220472	5
9	155	5	10	2	5	220472	10
9	172	5	27	1	17	150572	17
9	189	5	44	2	17	150572	34
9	194	5	49	1	5	60672	5
9	199	5	54	2	5	60672	10
9	216	5	71	1	17	50772	17
9	233	5	88	2	17	50772	34
9	250	5	105	1	17	80872	17
9	267	5	122	2	17	80872	34
9	272	5	127	1	5	20972	5
9	277	5	132	2	5	20972	10
9	294	5	149	1	17	141172	17
9	311	5	166	2	17	141172	34

STRUCTURAL SUMMARY OF DATA FILE CONTENTS
(N=NUMBER OF RECORDS-NOT NUMBER OF CORES)

SITE CODE	N	TREATMENT	N	REPLICATE	N	DATE	N
10	54	1	54	1	54	300670	54
10	108	1	108	2	54	300670	108
10	162	1	162	1	54	270770	54
10	216	1	216	2	54	270770	108
10	266	3	50	1	50	20670	50
10	319	3	103	2	53	20670	103
10	373	3	157	1	54	300670	54
10	427	3	211	2	54	300670	108
10	481	3	265	1	54	270770	54
10	535	3	319	2	54	270770	108
10	589	5	54	1	54	20670	54
10	643	5	106	2	54	20670	108
10	697	5	162	1	54	300670	54
10	751	5	216	2	54	300670	108
10	805	5	270	1	54	270770	54
10	859	5	324	2	54	270770	108

STRUCTURAL SUMMARY OF DATA FILE CONTENTS
(N=NUMBER OF RECORDS-NOT NUMBER OF CURES)

SITE CODE	N	TREATMENT*	N	REPLICATE	N	DATE	N
10	24	1	24	1	24	140571	24
10	48	1	48	2	24	140571	48
10	54	1	54	1	6	80671	6
10	60	1	60	2	6	80671	12
10	84	1	84	1	24	210671	24
10	108	1	108	2	24	210671	48
10	114	1	114	1	6	130771	6
10	120	1	120	2	6	130771	12
10	144	1	144	1	24	20871	24
10	168	1	168	2	24	20871	48
10	174	1	174	1	6	230871	6
10	180	1	180	2	6	230871	12
10	186	1	186	1	6	280971	6
10	192	1	192	2	6	280971	12
10	216	1	216	1	24	61171	24
10	240	1	240	2	24	61171	48
10	264	3	24	1	24	140571	24
10	288	3	48	2	24	140571	48
10	294	3	54	1	6	80671	6
10	300	3	60	2	6	80671	12
10	324	3	84	1	24	210671	24
10	348	3	108	2	24	210671	48
10	354	3	114	1	6	130771	6
10	360	3	120	2	6	130771	12
10	384	3	144	1	24	20871	24
10	408	3	168	2	24	20871	48
10	414	3	174	1	6	230871	6
10	420	3	180	2	6	230871	12
10	426	3	186	1	6	280971	6
10	432	3	192	2	6	280971	12
10	456	3	216	1	24	61171	24
10	480	3	240	2	24	61171	48

*Blue grama stratum

STRUCTURAL SUMMARY OF DATA FILE CONTENTS
(N=NUMBER OF RECORDS-NOT NUMBER OF CURES)

SITE CODE	N	TREATMENT*	N	REPLICATE	N	DATE	N
10	24	1	24	1	24	140571	24
10	48	1	48	2	24	140571	48
10	54	1	54	1	6	80671	6
10	60	1	60	2	6	80671	12
10	84	1	84	1	24	210671	24
10	108	1	108	2	24	210671	48
10	114	1	114	1	6	130771	6
10	120	1	120	2	6	130771	12
10	144	1	144	1	24	20871	24
10	168	1	168	2	24	20871	48
10	174	1	174	1	6	230871	6
10	180	1	180	2	6	230871	12
10	186	1	186	1	6	280971	6
10	192	1	192	2	6	280971	12
10	216	1	216	1	24	61171	24
10	240	1	240	2	24	61171	48
10	264	3	24	1	24	140571	24
10	288	3	48	2	24	140571	48
10	294	3	54	1	6	80671	6
10	300	3	60	2	6	80671	12
10	324	3	84	1	24	210671	24
10	348	3	108	2	24	210671	48
10	354	3	114	1	6	130771	6
10	360	3	120	2	6	130771	12
10	384	3	144	1	24	20871	24
10	408	3	168	2	24	20871	48
10	414	3	174	1	6	230871	6
10	420	3	180	2	6	230871	12
10	426	3	186	1	6	280971	6
10	432	3	192	2	6	280971	12
10	456	3	216	1	24	61171	24
10	480	3	240	2	24	61171	48

*Cactus stratum

STRUCTURAL SUMMARY OF DATA FILE CONTENTS
(N=NUMBER OF RECORDS-NOT NUMBER OF CURES)

SITE CODE	N	TREATMENT*	N	REPLICATE	N	DATE	N
10	6	1	6	1	6		
10	12	1	12	2	6	100172	6
10	18	1	18	1	6	100172	12
10	24	1	24	1	6	180272	6
10	30	1	30	2	6	180272	12
10	36	1	36	1	6	250372	6
10	78	1	78	2	6	250372	12
10	120	1	120	1	42	220472	42
10	126	1	126	2	42	220472	84
10	132	1	132	1	6	220572	6
10	162	1	162	2	6	220572	12
10	192	1	192	1	30	200672	30
10	198	1	198	2	30	200672	60
10	204	1	204	1	6	100772	6
10	226	1	226	2	6	140772	12
10	252	1	252	1	24	310772	24
10	257	1	257	2	24	10872	48
10	263	1	263	1	5	240872	5
10	286	1	286	2	6	240872	11
10	309	1	309	1	23	90972	23
10	315	1	309	2	23	90972	46
10	321	3	6	1	6	100172	6
10	327	3	12	2	6	100172	12
10	333	3	18	1	6	180272	6
10	339	3	24	2	6	180272	12
10	345	3	30	1	6	250372	6
10	387	3	36	2	6	250372	12
10	424	3	78	1	42	220472	42
10	435	3	120	2	42	220472	84
10	441	3	126	1	6	220572	6
10	471	3	132	2	6	220572	12
10	501	3	162	1	30	200672	30
10	507	3	192	2	30	200672	60
10	513	3	198	1	6	100772	6
10	537	3	204	2	6	140772	12
10	561	3	226	1	24	310772	24
10	567	3	252	2	24	10872	48
10	573	3	258	1	6	240872	6
10	597	3	264	2	6	240872	12
10	621	3	288	1	24	90972	24
		3	312	2	24	100972	48

*Blue grama stratum

STRUCTURAL SUMMARY OF DATA FILE CONTENTS
(N=NUMBER OF RECORDS-NOT NUMBER OF CORES)

SITE CODE	N	TREATMENT*	N	REPLICATE	N	DATE	N
10	6	1	6	1	6	100172	6
10	12	1	12	2	6	100172	12
10	18	1	18	1	6	180272	6
10	24	1	24	2	6	180272	12
10	30	1	30	1	6	250372	6
10	36	1	36	2	6	250372	12
10	78	1	78	1	42	220472	42
10	120	1	120	2	42	220472	84
10	126	1	126	1	6	220572	6
10	132	1	132	2	6	220572	12
10	162	1	162	1	30	200672	30
10	192	1	192	2	30	200672	60
10	198	1	198	1	6	100772	6
10	204	1	204	2	6	140772	12
10	228	1	228	1	24	310772	24
10	252	1	252	2	24	310772	48
10	257	1	257	1	5	240872	5
10	263	1	263	2	6	240872	11
10	286	1	286	1	23	90972	23
10	310	1	310	2	24	100972	47
10	316	3	6	1	6	100172	6
10	322	3	12	2	6	100172	12
10	328	3	18	1	6	180272	6
10	334	3	24	2	6	180272	12
10	340	3	30	1	6	250372	6
10	346	3	36	2	6	250372	12
10	388	3	78	1	42	220472	42
10	430	3	120	2	42	220472	84
10	436	3	126	1	6	220572	6
10	442	3	132	2	6	220572	12
10	472	3	162	1	30	200672	30
10	502	3	192	2	30	200672	60
10	508	3	198	1	6	100772	6
10	514	3	204	2	6	140772	12
10	538	3	228	1	24	310772	24
10	562	3	252	2	24	10872	48
10	568	3	258	1	6	240872	6
10	574	3	264	2	6	240872	12
10	598	3	288	1	24	90972	24
10	622	3	312	2	24	90972	48

*Cactus stratum

STRUCTURAL SUMMARY OF DATA FILE CONTENTS
(N=NUMBER OF RECORDS-NOT NUMBER OF CORES)

SITE CODE	N	TREATMENT	N	REPLICATE	N	DATE	N
11	39	1	39	1	39	240470	39
11	79	1	79	2	40	240470	79
11	101	1	101	1	22	80570	22
11	125	1	125	2	24	80570	46
11	143	1	143	1	18	220570	18
11	167	1	167	2	24	220570	42
11	191	1	191	1	24	40670	24
11	215	1	215	2	24	40670	48
11	239	1	239	1	24	190670	24
11	263	1	263	2	24	190670	48
11	301	1	301	1	38	20770	38
11	341	1	341	2	40	20770	78
11	365	1	365	1	24	170770	24
11	389	1	389	2	24	170770	48
11	413	1	413	1	24	290770	24
11	437	1	437	2	24	290770	48
11	461	1	461	1	24	120870	24
11	485	1	485	2	24	120870	48
11	524	1	524	1	39	260870	39
11	564	1	564	2	40	260870	79
11	588	1	588	1	24	120970	24
11	612	1	612	2	24	120970	48
11	652	2	40	1	40	240470	40
11	692	2	80	2	40	240470	80
11	715	2	103	1	23	80570	23
11	739	2	127	2	24	80570	47
11	763	2	151	1	24	220570	24
11	787	2	175	2	24	220570	48
11	811	2	199	1	24	40670	24
11	835	2	223	2	24	40670	48
11	859	2	247	1	24	190670	24
11	883	2	271	2	24	190670	48
11	923	2	311	1	40	20770	40
11	962	2	350	2	39	20770	79
11	986	2	374	1	24	170770	24
11	1010	2	398	2	24	170770	48
11	1034	2	422	1	24	290770	24
11	1058	2	446	2	24	290770	48
11	1082	2	470	1	24	120870	24
11	1106	2	494	2	24	120870	48
11	1146	2	534	1	40	260870	40
11	1186	2	574	2	40	260870	80
11	1210	2	598	1	24	120970	24
11	1234	2	622	2	24	120970	48
11	1274	3	40	1	40	240470	40
11	1314	3	80	2	40	240470	80
11	1338	3	104	1	24	80570	24
11	1362	3	128	2	24	80570	48
11	1386	3	152	1	24	220570	24
11	1410	3	176	2	24	220570	48
11	1434	3	200	1	24	40670	24
11	1458	3	222	2	22	40670	46
11	1480	3	246	1	24	190670	24
11	1504	3	270	2	24	190670	48
11	1544	3	310	1	40	20770	40
11	1584	3	350	2	40	20770	80
11	1608	3	374	1	24	170770	24
11	1632	3	398	2	24	170770	48
11	1656	3	422	1	24	290770	24
11	1680	3	446	2	24	290770	48
11	1704	3	470	1	24	120870	24
11	1728	3	494	2	24	120870	48
11	1766	3	532	1	38	260870	38
11	1806	3	572	2	40	260870	78
11	1830	3	596	1	24	120970	24

STRUCTURAL SUMMARY OF DATA FILE CONTENTS
(N=NUMBER OF RECORDS-NOT NUMBER OF CORES)
(CONT.)

SITE CODE	N	TREATMENT	N	REPLICATE	N	DATE	N
11	1854	3	620	2	24	120970	48
11	1894	4	40	1	40	240470	40
11	1934	4	80	2	40	240470	80
11	1957	4	103	1	23	80570	23
11	1980	4	126	2	23	80570	46
11	2004	4	150	1	24	220570	24
11	2028	4	174	2	24	220570	48
11	2052	4	198	1	24	40670	24
11	2076	4	222	2	24	40670	48
11	2100	4	246	1	24	190670	24
11	2124	4	270	2	24	190670	48
11	2164	4	310	1	40	20770	40
11	2203	4	344	2	39	20770	79
11	2227	4	373	1	24	170770	24
11	2251	4	397	2	24	170770	48
11	2275	4	421	1	24	290770	24
11	2299	4	445	2	24	290770	48
11	2323	4	469	1	24	120870	24
11	2347	4	493	2	24	120870	48
11	2387	4	533	1	40	260870	40
11	2426	4	572	2	39	260870	79
11	2450	4	596	1	24	120970	24
11	2474	4	620	2	24	120970	48

STRUCTURAL SUMMARY OF DATA FILE CONTENTS
(N=NUMBER OF RECORDS-NOT NUMBER OF CORES)

SITE CODE	N	TREATMENT	N	REPLICATE	N	DATE	N
11	24	D	24	1	24	280470	24
11	49	D	49	2	25	280470	49
11	64	D	64	1	15	160570	15
11	79	D	79	2	15	160570	30
11	94	D	94	1	15	280570	15
11	109	D	109	2	15	280570	30
11	124	D	124	1	15	160670	15
11	139	D	139	2	15	160670	30
11	154	D	154	1	15	240670	15
11	169	D	169	2	15	240670	30
11	194	D	194	1	25	90770	25
11	217	D	217	2	23	90770	48
11	232	D	232	1	15	220770	15
11	247	D	247	2	15	220770	30
11	262	D	262	1	15	50870	15
11	277	D	277	2	15	50870	30
11	291	D	291	1	14	190870	14
11	306	D	306	2	15	190870	29
11	331	D	331	1	25	10970	25
11	356	D	356	2	25	10970	50
11	371	D	371	1	15	170970	15
11	386	D	386	2	15	170970	30
11	411	E	25	1	25	280470	25
11	433	E	47	2	22	280470	47
11	446	E	60	1	13	160570	13
11	461	E	75	2	15	160570	28
11	476	E	90	1	15	280570	15
11	491	E	105	2	15	280570	30
11	506	E	120	1	15	160670	15
11	521	E	135	2	15	160670	30
11	536	E	150	1	15	240670	15
11	551	E	165	2	15	240670	30
11	574	E	188	1	23	90770	23
11	597	E	211	2	23	90770	46
11	612	E	226	1	15	220770	15
11	627	E	241	2	15	220770	30
11	642	E	256	1	15	50870	15
11	657	E	271	2	15	50870	30
11	671	E	285	1	14	190870	14
11	686	E	300	2	15	190870	29
11	711	E	325	1	25	10970	25
11	736	E	350	2	25	10970	50
11	751	E	365	1	15	170970	15
11	766	E	380	2	15	170970	30
11	787	F	21	1	21	280470	21
11	810	F	44	2	23	280470	44
11	823	F	57	1	13	160570	13
11	838	F	72	2	15	160570	28
11	853	F	87	1	15	280570	15
11	868	F	102	2	15	280570	30
11	883	F	117	1	15	160670	15
11	898	F	132	2	15	160670	30
11	913	F	147	1	15	240670	15
11	928	F	162	2	15	240670	30
11	953	F	187	1	25	90770	25
11	974	F	208	2	21	90770	46
11	989	F	223	1	15	220770	15
11	1004	F	238	2	15	220770	30

STRUCTURAL SUMMARY OF DATA FILE CONTENTS
 (N=NUMBER OF RECORDS-NOT NUMBER OF CORES)
 (CONT.)

SITE CODE	N	TREATMENT	N	REPLICATE	N	DATE	N
11	1019	F	253	1	15		
11	1034	F	268	2	15	50870	15
11	1049	F	283	1	15	50870	30
11	1064	F	298	2	15	190870	15
11	1089	F	323	2	15	190870	30
11	1114	F	348	1	25	10970	25
11	1129	F	363	2	25	10970	50
11	1144	F	378	1	15	170970	15
11	1168	G	24	2	15	170970	30
11	1191	G	47	1	24	280470	24
11	1205	G	61	2	23	280470	47
11	1219	G	75	1	14	160570	14
11	1234	G	90	2	14	160570	28
11	1249	G	105	1	15	280570	15
11	1263	G	119	2	15	280570	30
11	1277	G	133	1	14	160670	14
11	1292	G	148	2	14	160670	28
11	1307	G	163	1	15	240670	15
11	1331	G	187	2	15	240670	30
11	1354	G	210	1	24	90770	24
11	1369	G	225	2	23	90770	47
11	1384	G	240	1	15	220770	15
11	1399	G	255	2	15	220770	30
11	1414	G	270	1	15	50870	15
11	1429	G	285	2	15	50870	30
11	1442	G	298	1	15	190870	15
11	1467	G	323	2	13	190870	28
11	1492	G	348	1	25	10970	25
11	1507	G	363	2	25	10970	50
11	1522	G	378	1	15	170970	15
				2	15	170970	30

STRUCTURAL SUMMARY OF DATA FILE CONTENTS
(N=NUMBER OF RECORDS-NOT NUMBER OF CORES)

SITE CODE	N	TREATMENT	N	REPLICATE	N	DATE	N
11	72	1	72	1	72	10471	72
11	144	1	144	2	72	30471	144
11	216	1	216	2	72	50571	72
11	288	1	288	1	72	100571	144
11	360	1	360	1	72	190571	72
11	432	1	432	2	72	210571	144
11	504	1	504	1	72	10671	72
11	576	1	576	2	72	30571	144
11	648	1	648	1	72	140571	72
11	720	1	720	2	72	160671	144
11	792	1	792	2	72	290671	72
11	1056	1	1056	1	264	10771	336
11	1248	1	1248	2	192	60771	528
11	1320	1	1320	2	72	160771	72
11	1392	1	1392	1	72	190771	144
11	1464	1	1464	1	72	270771	72
11	1536	1	1536	2	72	290771	144
11	1608	1	1608	2	72	190871	72
11	1680	1	1680	1	72	240871	144
11	1752	1	1752	1	72	130971	72
11	1824	1	1824	2	72	150971	144
11	1896	1	1896	1	72	61071	72
11	2088	1	2088	1	192	231071	192
11	2160	1	2160	2	72	221271	72
11	72	2	72	1	72	30471	72
11	144	2	144	2	72	30471	144
11	216	2	216	1	72	140571	72
11	288	2	288	2	72	140571	144
11	487	2	487	1	199	250671	199
11	687	2	687	2	200	250671	399
11	759	2	759	1	72	130871	72
11	831	2	831	2	72	180871	144
11	1023	2	1023	1	192	231071	192
11	72	3	72	1	72	30471	72
11	144	3	144	2	72	30471	144
11	216	3	216	1	72	140571	72
11	288	3	288	2	72	150571	144
11	489	3	489	1	201	280671	201
11	686	3	686	2	197	280671	398
11	758	3	758	2	72	160871	72
11	830	3	830	1	72	190871	144
11	1012	3	1012	1	182	231071	182
11	72	4	72	1	72	10471	72
11	144	4	144	2	72	30471	144
11	216	4	216	1	72	140571	72
11	288	4	288	2	72	140571	144
11	491	4	491	1	203	240671	203
11	688	4	688	2	197	240671	400
11	760	4	760	2	72	130871	72
11	832	4	832	1	72	180871	144
11	1024	4	1024	1	192	231071	192
11	72	6	72	1	72	60571	72
11	144	6	144	2	72	60571	144
11	216	6	216	1	72	180571	72
11	288	6	288	2	72	200571	144
11	360	6	360	1	72	10671	72
11	432	6	432	2	72	50671	144
11	504	6	504	1	72	140671	72
11	576	6	576	2	72	150671	144
11	648	6	648	2	72	10771	72
11	720	6	720	1	72	30771	144
11	792	6	792	2	72	160771	72
11	864	6	864	1	72	190771	144
11	936	6	936	1	72	270771	72
11	1008	6	1008	2	72	280771	144
11	1080	6	1080	1	72	250871	72
11	1152	6	1152	2	72	260871	144
11	1224	6	1224	1	72	130971	72
11	1296	6	1296	2	72	150971	144
11	1368	6	1368	1	72	141071	72
11	1440	6	1440	2	72	211271	72

STRUCTURAL SUMMARY OF DATA FILE CONTENTS
(N=NUMBER OF RECORDS-NOT NUMBER OF CURES)

SITE CODE	N	TREATMENT	N	REPLICATE	N	DATE	N
11	88	D	88	2	88	230471	88
11	296	D	296	2	208	40671	208
11	503	D	503	1	207	70671	415
11	575	D	575	1	72	260771	72
11	647	D	647	2	72	260771	144
11	836	D	836	2	189	80971	189
11	1024	D	1024	1	188	130971	377
11	1096	D	1096	2	72	291171	72
11	1168	D	1168	1	72	181271	72
11	1372	E	204	2	204	70671	204
11	1572	E	404	1	200	80671	404
11	1644	E	476	1	72	260771	72
11	1716	E	548	2	72	260771	144
11	1908	E	740	2	192	100971	192
11	2100	E	932	1	192	130971	384
11	2124	E	956	2	24	291171	24
11	2196	E	1028	1	72	161271	72
11	2435	F	239	2	239	230471	239
11	2402	F	406	2	167	30671	167
11	2413	F	617	1	211	80671	378
11	2445	F	649	1	72	260771	72
11	2457	F	761	2	72	260771	144
11	3143	F	947	2	186	80971	186
11	3331	F	1135	1	188	130971	374
11	3403	F	1207	2	72	291171	72
11	3475	F	1279	1	72	141271	72
11	3681	G	206	2	206	30671	206
11	3894	G	419	1	213	70671	419
11	3966	G	491	1	72	260771	72
11	4038	G	563	2	72	260771	144
11	4230	G	755	2	192	100971	192
11	4422	G	947	1	192	130971	384
11	4494	G	1019	2	72	291171	72
11	4566	G	1091	1	72	111271	72

STRUCTURAL SUMMARY OF DATA FILE CONTENTS
(N=NUMBER OF RECORDS-NOT NUMBER OF CURES)

SITE CODE	N	TREATMENT	N	REPLICATE	N	DATE	N
11	49						
11	97	K	49	1	49		
11	144	K	97	3	48	10771	49
11	194	K	144	2	47	80771	48
11	239	K	194	2	50	90771	95
11	277	K	239	3	45	100871	50
11	313	K	277	1	38	110871	95
11	352	K	313	1	36	130871	133
11	389	K	352	2	39	61171	36
11	439	K	389	3	37	61171	75
11	489	L	50	1	50	61171	112
11	539	L	100	3	50	70771	50
11	589	L	150	2	50	70771	100
11	639	L	200	2	50	80771	150
11	689	L	250	3	50	90871	50
11	739	L	300	1	50	100871	100
11	789	L	350	1	50	130871	150
11	839	L	400	2	50	61171	50
11	888	L	450	2	50	61171	100
11	938	M	49	3	50	61171	150
11	986	M	99	1	49	70771	49
11	1033	M	147	3	50	70771	99
11	1083	M	194	2	48	70771	99
11	1132	M	244	2	47	90771	147
11	1182	M	293	3	50	100871	47
11	1230	M	343	1	49	100871	97
11	1275	M	391	1	50	110871	146
11	1325	M	436	2	48	61171	50
11	1354	N	50	3	45	61171	98
		N	79	1	50	61171	143
				1	29	90771	50
						100871	29

STRUCTURAL SUMMARY OF DATA FILE CONTENTS
(N=NUMBER OF RECORDS-NOT NUMBER OF CORES)

SITE CODE	N	TREATMENT	N	REPLICATE	N	DATE	N
11	42	1	42	1	42	160572	42
11	84	1	84	2	42	160572	84
11	90	1	90	1	6	10672	6
11	96	1	96	2	6	50672	12
11	102	1	102	1	6	260672	6
11	132	1	132	2	30	260672	36
11	146	1	146	1	54	120772	54
11	240	1	240	2	54	130772	108
11	270	1	270	1	30	100872	30
11	300	1	300	2	30	100872	60
11	340	1	340	1	40	230872	40
11	382	1	382	2	42	230872	82
11	412	1	412	1	30	120972	30
11	442	1	442	2	30	120972	60
11	444	1	444	1	6	281272	6
11	454	1	454	2	6	281272	12
11	484	2	30	1	30	180472	30
11	514	2	60	2	30	180472	60
11	544	2	90	1	30	270672	30
11	574	2	120	2	30	270672	60
11	604	2	150	1	30	180772	30
11	634	2	180	2	30	180772	60
11	664	2	210	1	30	100872	30
11	694	2	240	2	30	100872	60
11	724	2	270	1	30	140972	30
11	754	2	300	2	30	140972	60
11	784	4	30	1	30	180472	30
11	814	4	60	2	30	180472	60
11	844	4	90	1	30	270672	30
11	874	4	120	2	30	270672	60
11	904	4	150	1	30	180772	30
11	934	4	180	2	30	180772	60
11	964	4	210	2	30	100872	30
11	994	4	240	1	30	110872	60
11	1024	4	270	1	30	140972	30
11	1054	4	300	2	30	140972	60
11	1060	5	6	1	6	170472	6
11	1066	5	12	2	6	180472	12
11	1104	5	54	1	42	170572	42
11	1150	5	90	2	42	170572	84
11	1156	5	102	1	6	110672	6
11	1162	5	108	2	6	110672	12
11	1168	5	114	1	6	230672	6
11	1174	5	120	2	6	230672	12
11	1180	5	126	1	6	130772	6
11	1186	5	132	2	6	140772	12
11	1192	5	138	1	6	80872	6
11	1198	5	144	2	6	80872	12
11	1240	5	146	1	42	240872	42
11	1242	5	228	2	42	240872	84
11	1244	5	234	1	6	220173	6
11	1293	5	234	2	5	220173	11

STRUCTURAL SUMMARY OF DATA FILE CONTENTS
(N=NUMBER OF RECORDS-NOT NUMBER OF CORES)

SITE CODE	N	TREATMENT	N	REPLICATE	N	DATE	N
11	54						
11	108	D	54	2	54		
11	162	D	108	1	54	40472	54
11	216	D	162	2	54	100472	54
11	288	D	216	1	54	20572	54
11	360	D	288	1	72	40572	108
11	414	D	360	2	72	240572	72
11	468	D	414	2	72	220572	144
11	540	D	468	1	54	130672	54
11	612	D	540	2	54	150672	108
11	666	D	612	1	72	50772	72
11	720	D	666	2	72	60772	144
11	804	D	720	1	54	240772	54
11	888	D	804	2	54	260772	108
11	942	D	888	1	84	140872	84
11	996	D	942	2	84	160872	168
11	1050	D	996	1	54	50972	54
11	1104	D	1050	2	54	70972	108
11	1158	D	1104	1	54	91072	54
11	1212	E	54	2	54	111072	108
11	1266	E	108	1	54	50472	54
11	1320	E	162	2	54	100472	108
11	1374	E	216	1	54	30572	54
11	1428	E	288	1	72	40572	108
11	1482	E	360	2	72	240572	72
11	1536	E	414	2	72	230572	144
11	1590	E	468	1	54	140672	54
11	1644	E	504	2	54	150672	108
11	1698	E	540	1	36	60772	36
11	1752	E	576	2	36	70772	72
11	1770	E	612	1	36	70772	108
11	1824	E	666	2	36	70772	144
11	1908	E	720	1	54	250772	54
11	1942	E	804	2	54	260772	108
11	2046	E	888	1	84	150872	84
11	2100	E	942	2	84	160872	168
11	2154	E	996	1	54	60472	54
11	2208	E	1050	2	54	80972	108
11	2262	E	1104	1	54	101072	54
11	2316	F	54	2	54	121072	108
11	2370	F	108	1	54	30472	54
11	2424	F	162	2	54	80472	108
11	2478	F	216	1	54	20572	54
11	2532	F	288	1	72	40572	108
11	2586	F	360	1	72	240572	72
11	2622	F	414	2	72	220572	144
11	2676	F	468	2	72	130672	54
11	2748	F	540	1	54	160672	108
11	2820	F	612	2	72	50772	72
11	2874	F	666	1	72	70772	144
11	2928	F	720	2	54	240772	54
11	3012	F	804	1	54	260772	108
11	3096	F	888	2	84	140672	84
11	3150	F	942	1	84	160872	168
11	3204	F	996	2	54	160872	168
11	3258	F	1050	1	54	50972	54
11	3312	F	1104	2	54	60972	108
11	3366	F	54	1	54	91072	54
11	3420	G	108	2	54	121072	108
11	3474	G	162	1	54	40472	54
11	3528	G	216	2	54	70472	108
11	3600	G	288	1	54	20572	54
11	3672	G	360	1	72	30572	108
11	3726	G	414	2	72	230572	72
11	3780	G	468	2	72	220572	144
11	3816	G	504	1	54	140672	54
11	3852	G	540	1	36	150672	108
11	3888	G	576	2	36	60772	36
11	3924	G	612	1	36	60772	72
11	3978	G	666	2	36	60772	108
11	4032	G	720	2	36	60772	144
11	4116	G	804	1	54	240772	54
11	4200	G	888	2	84	260772	108
11	4254	G	942	1	84	140872	84
11	4308	G	996	1	84	150872	168
11	4362	G	1050	2	54	60972	54
11	4416	G	1104	2	54	60972	108
				1	54	91072	54
						111072	108

STRUCTURAL SUMMARY OF DATA FILE CONTENTS
(N=NUMBER OF RECORDS-NOT NUMBER OF CURES)

SITE CODE	N	TREATMENT	N	REPLICATE	N	DATE	N
11	50	K	50	2	50		
11	100	K	100	3	50	250472	50
11	150	K	150	1	50	250472	100
11	200	K	200	1	50	270472	150
11	249	K	249	2	49	90672	50
11	297	K	297	3	48	90672	99
11	345	K	345	1	48	90672	147
11	392	K	392	2	47	210772	48
11	437	K	437	3	45	210772	95
11	487	L	50	1	50	210772	140
11	537	L	100	3	50	240472	50
11	587	L	150	2	50	250472	100
11	637	L	200	1	50	270472	150
11	687	L	250	2	50	90672	50
11	737	L	300	3	50	90672	100
11	785	L	348	1	48	90672	150
11	835	L	398	2	50	210772	48
11	883	L	448	3	48	210772	98
11	933	M	50	2	50	210772	146
11	983	M	100	1	50	240472	50
11	1033	M	150	3	50	250472	100
11	1083	M	200	1	50	270472	150
11	1132	M	249	2	49	90672	50
11	1181	M	298	3	49	90672	99
11	1230	M	347	1	49	90672	148
11	1278	M	395	2	48	210772	49
11	1328	M	445	3	50	210772	97
						210772	147

STRUCTURAL SUMMARY OF DATA FILE CONTENTS
(N=NUMBER OF RECORDS-NOT NUMBER OF CORES)

SITE CODE	N	TREATMENT	N	REPLICATE	N	DATE	N
11	54	1	54	1	54	120772	54
11	108	1	108	2	54	130772	108
11	138	1	138	1	30	100872	30
11	168	1	168	2	30	160872	60
11	174	1	174	1	6	120772	6
11	179	1	179	2	5	120772	11
11	185	1	185	1	6	190872	6
11	191	1	191	2	6	190872	12

(T1 calibration)

STRUCTURAL SUMMARY OF DATA FILE CONTENTS
(N=NUMBER OF RECORDS-NOT NUMBER OF CURES)

SITE CODE	N	TREATMENT	N	REPLICATE	N	DATE	N
11	54	I	54	1	54	120772	54
11	108	I	108	2	54	130772	108
11	162	A	54	2	54	100772	162
11	216	A	108	1	54	110772	216
11	270	H	54	1	54	110772	270
11	324	H	108	2	54	120772	324

(Bridge set)

APPENDIX III

DATA SET PROBLEMS AND CORRECTIONS--AN INDICATION OF THE TECHNICAL PROBLEMS WITH THE DATA FOR THOSE WISHING TO DRAW CONCLUSIONS BASED UPON IT

Belowground Bank File Data Set Problems*	
Error	Fix
DICKINSON	
Root type missing	Columns 76-80: Right justified in the field is the approximate record number in the original file.
Ash-free weight negative	Decimal point error on data form.
Dry weight blank	
Ash weight blank	
Ash-free weight negative	Decimal point error on data form.
Dry weight zero	Estimate dry weight from other segments of that level and replicate; Apply % ash on data form to get ash weight.
Core length wrong	Use Top depth-Bottom depth for core length.
Core segment missing	Insert data from data form.
HAYS 1970	
Root type not given	Columns 76-80: Right justified in the field is the approximate record number in the original file.
Ashed weight blank	No action (Roots dry weight only).
Core diameter 34.6 instead of 3.46	Correct core diameter.
JORNADA 1970	
Root type missing	Columns 76-80: Right justified in the field is the approximate record number in the original file.
Dry weight zero	No action; Assume real zero, core segment problem in hard pan layer.
Horizon not 1-4	Different codes used
5	5- A1
6	6- AC
7	7- R
Dry weight blank	No action.
Ash-free weight negative	Assume a real zero since core segment problem in hard pan layer.
	First ash-free weight from other cores, same date, replicate, segment.

Belowground Bank File Data Set Problems*

Error	Fix																														
<p>JORNADA 1971 - Bank File incomplete, used card file from Richard L. Shipley</p>																															
<p>Horizon not 1-4 5 6 7</p>	<p>Different Codes used. 5- A1 6- AC in addition to 1-4 7- K No action</p>																														
<p>Some rcds reported as trt 6</p>	<p>Changed to trt 5.</p>																														
<p>Root type missing for many rcds</p>	<p>Supplied a 3.0 for root type in all cases.</p>																														
<p>Non-descript number in CRNDRYUT field</p>	<p>Blanked out field.</p>																														
<p>Plot size missing for many records</p>	<p>Supplied plot size of 0.707.</p>																														
<p>Initials not given Rcids 301-310</p>	<p>No action.</p>																														
<p>Some cores not full length</p>	<p>Total core length inserted; Assume no crown material due to hard pan (assigned core segment length = 0).</p>																														
<p>JORNADA 1972</p>																															
<p>Treatments recorded as 1 and 6</p>	<p>Changed trt 1 and 5.</p>																														
<p>Negative ash-free weight</p>	<p>Substituted with \bar{X} ash-free weights for that depth, replicate, and date.</p>																														
<p>Crowns included in file in 0-10 cm increment</p>	<p>No action</p>																														
<p>Horizon not 1-4 5 6 7</p>	<p>Different codes used.</p>																														
<p>OSAGE 1970</p>																															
<p>Core diameter 0.5</p>	<p>Should be 4.5.</p>																														
<p>Root type blank</p>	<p>Set = 3.0.</p>																														
<p>Crown ash-free weight in crown dry weight field</p>	<p>Insert record for each core for 0-0 segment and recorded ash-free weight in dry weight field and 0.0 in ash weight field.</p>																														
<p>Ash weight, blank</p>	<p>Estimate root ash-free weight from dry weight by regression by depth for the entire season</p>																														
	<table border="1"> <thead> <tr> <th>(N)</th> <th>r²</th> <th>AFW</th> <th>A</th> <th>+ B</th> <th>DW</th> </tr> </thead> <tbody> <tr> <td>47</td> <td>73</td> <td>0- 5</td> <td>= 0.17</td> <td>+ 0.46</td> <td></td> </tr> <tr> <td>50</td> <td>45</td> <td>5-10</td> <td>= 0.31</td> <td>+ 0.24</td> <td></td> </tr> <tr> <td>50</td> <td>43</td> <td>10-20</td> <td>= 0.31</td> <td>+ 0.21</td> <td></td> </tr> <tr> <td>50</td> <td>85</td> <td>20-50</td> <td>= 0.44</td> <td>+ 0.16</td> <td></td> </tr> </tbody> </table>	(N)	r ²	AFW	A	+ B	DW	47	73	0- 5	= 0.17	+ 0.46		50	45	5-10	= 0.31	+ 0.24		50	43	10-20	= 0.31	+ 0.21		50	85	20-50	= 0.44	+ 0.16	
(N)	r ²	AFW	A	+ B	DW																										
47	73	0- 5	= 0.17	+ 0.46																											
50	45	5-10	= 0.31	+ 0.24																											
50	43	10-20	= 0.31	+ 0.21																											
50	85	20-50	= 0.44	+ 0.16																											
<p>Data report biomass from two cores/quadrat/ Quadrat number , apparently changed within core.</p>	<p>Reduce data to a one core/quadrat-basis; Corrected core identification.</p>																														

Belowground Bank File Data Set Problems*

Error	Fix
OSAGE 1971	
Quadrat size wrong 4 cores/quadrat Core diameter wrong (5.0 cm) Dry weight of crowns in crown field, sometimes ash-free weight	Insert correct quadrat size (0.50 m ²). Corrected to 1 core/quadrat. Corrected core diameter (4.5 cm). Blank out crown dry weight field since crown ash-free weight is given as 0-0 level.
OSAGE 1972	
Plot size 0.0016 or 0.002 Core size 0.5. Data reported on a 3 core/quadrat basis Negative ash-free weight No crown material	Replace plot size = 0.5. Replace core size = 4.5. Reduced to 1 core/quadrat. Keypunch error, corrected to data form value. Insert crown material on a per core basis (crown material is ash-free weight); According to note on Aboveground herbage data forms, sometimes more crown quadrats than root quadrats. Crown core diameter = 79.8 cm.
PANTEX 1970	
Root type not given dry weights in the field Crown dry weights in crown dry weight field Ash weight > dry weight	Replace with 3.0 for roots and 1.0 for crowns. Move to dry weight field for 0-0 cm level. Estimate ash-free weight from other cores with same replicate, same depth and insert into dry weight field with 0.0 cm in ash weight field.
Record missing	
PANTEX 1971	
Root type not given Ash-free weight negative Crown material with Aboveground herbage	Supplied 3.0 in root type field Keypunch error; Ash-free weight not negative with 1.0 on data form, changed need to conform with data form. Crown plot sizes incorrect starting 080671, supplied area = 0.5.

Belowground Bank File Data Set Problems*

Error

Fix

PANTEX 1971 (cont.)

Sampled crowns 080671 when no
root cores were taken
Crowns only 130771
Crowns only 230871
Crowns only 280871

Included 0-0 cm level only.

Crowns taken 210671
Cores taken 280671
Crowns taken 020871
Cores taken 060871

Entered crowns 0-0 cm for 210671
associated with appropriate root core
for 280671 (Dry Weight Only)

PANTEX 1972

Bottom depth wrong
Crowns missing

Corrected bottom depth

Inserted crown data from aboveground
files for all dates available including
some dates not root samples (Crown material
sampled on 0.5 m² plot and reported as
dry weight only, core diameter = 79.8 cm).

PAWNEE 1970, Trt. 1, 2, 3, 4

Initials blank
Horizon blank
Ash weight blank
Crown dry weight field not blank
Missing core segment
490.5, 961.5, 2196.5, 2397.5

No action

No action

No action

No action

Ash-free weight for the missing segment
estimated for other segment of the same
replicate, depth, and date.

PAWNEE 1970 ESA

Negative ash-free weight
Three cases where core numbers were
duplicated within a replicate
which caused entries in the file
to be wrong

Substitute \bar{X} for replicate, date, depth.

Corrected from original data sheets.

Random cores had random bottom
depths, i.e., 44, 62, 77, ... cm

No action

Belowground Bank File Data Set Problems*

Error	Fix
<hr/>	
PAWNEE 1971, Trt 1	
Data code 06	Change data code to 03.
Horizon blank	No action.
Ash weight blank	No action.
Plot size blank	No action.
Dry weight (ash-free weight) negative	Substitute \bar{X} for that treatment, repli- cate, date, and depth.
Dry weight (ash-free weight) negative	Substitute correct ash-free weight from data forms.
Crown weight blank 010471 and 030471 (R1, R2)	No action.
PAWNEE 1971, Trt 2	
Data code 06	Change data code to 03.
Plot size blank	No action.
Horizon blank	No action.
Ash weight blank	No action.
Crown weights blank 030471 (R1, R2)	No action.
Dry weight blank	Substitute \bar{X} for that replicate, date, and depth.
PAWNEE 1971, Trt 3	
Data code 06	Change data code to 03.
Plot size blank	No action.
Horizon blank	No action.
Ash weight blank	No action.
Crown weight blank 030471 (R1, R2)	No action.
Dry weight negative	Substitute \bar{X} for that replicate, date, and depth.

Belowground Bank File Data Set Problems*

Error	Fix
PAWNEE 1971, Trt 4	
Data code 06	Change data code to 03.
Ash weight blank	No action.
Plot size blank	No action.
Horizon blank	No action.
Dry weight negative	Replace with estimate from other cores that replicate, date, depth.
Dry weight blank	Replace with estimate from other cores that replicate, date, depth.
Core diameter wrong	Change core diameter from 7.5 to 5.0.
PAWNEE 1971, Trt 6	
Data code 06	Change data code to 03.
Ash weight blank	No action.
Plot size blank	No action.
Horizon blank	No action.
Random rcd inserted.	Rcd deleted.
Dry weight field blank (ASHFRWT)	Replace rcd with correct value from data forms.
Dry weight field negative	Value negative on data forms ∴ replaced value with X for other cores this date, replicate, depth
Core numbers prefixed with letter designation	Dropped leading letter since it added no information to core identification.
PAWNEE 1971 ESA, Trt K, L, M	
Data code 06	Change data code to 03
Blank crown weights 230471--D2 8 cores } entire F2 30 cores } sample data	No action
Negative and blank ash-free weights	Substitute \bar{X} for the treatment, replicate, depth, sampling date.
Extra rcd	Delete rcd.
Root type 3 for crowns	Changed root type to 1.
Pairs of cores with same core number (6 pairs)	Change core identification on 2nd member of each pair.

Belowground Bank File Data Set Problems*

Error	Fix
PAWNEE 1972	
Plot size blank	No action.
Horizon blank	No action.
Dry weight blank	No action.
T1 R1 27-6-72 data lost because carton numbers not taken	No action.
Dry weight (ash-free weight) negative	Substitute \bar{x} for that treatment, replicate, depth.
PAWNEE 1972 ESA	
Plot size blank	No action.
Horizon blank	No action.
Ash weight blank	No action.
Ash-free weight negative	Substitute \bar{x} for that replicate, date, depth.
Sampling of replicate 2 split around sampling of replicate 1 and sorted apart by sort/merge by date	Relocated first half of replicate 2 to proper association with second half of replicate 2
K2 210772; Same data lost because carton numbers not recorded	

*All data records which were modified in any way whatsoever, with the exception of changing data type or code, are flagged in the following fashion:

- 1) the word FLAG appears in columns 71-74.
- 2) Column 75 is coded for the type of modification made.
 - 1) Record is replacing old record
 - 2) Single record inserted into file.
 - 3) Multiple records inserted into file.
- 3) Columns 76-80, Right justified in the field is the approximate record number in the original file.

