

Soil Type 1 = Chalmers (dark-colored)

Plot No.

1	2	3	4	5	6	7	8	9	10	11	12
D <sub>3</sub>	D <sub>4</sub>	D <sub>1</sub>	D <sub>4</sub>	D <sub>3</sub>	D <sub>4</sub>	D <sub>2</sub>	D <sub>2</sub>	D <sub>3</sub>	D <sub>1</sub>	D <sub>1</sub>	D <sub>2</sub>
P <sub>3</sub>	P <sub>3</sub>	P <sub>1</sub>	P <sub>1</sub>	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>2</sub>	P <sub>2</sub>

↑ 15.8m ↓

Plot No.

13	14	15	16	17	18	19	20	21	22	23	24
D <sub>1</sub>	D <sub>3</sub>	D <sub>2</sub>	D <sub>4</sub>	D <sub>1</sub>	D <sub>3</sub>	D <sub>1</sub>	D <sub>3</sub>	D <sub>2</sub>	D <sub>4</sub>	D <sub>2</sub>	D <sub>4</sub>
P <sub>1</sub>	P <sub>1</sub>	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>3</sub>	P <sub>2</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>3</sub>	P <sub>2</sub>	P <sub>1</sub>

Planting Date

D<sub>1</sub> = 8 May 1981

D<sub>2</sub> = 29 May 1981

D<sub>3</sub> = 11 June 1981

D<sub>4</sub> = 29 June 1981

Soil Type 2 = Fincastle (light-colored)

Plot No.

97	98	99	100	101	102	103	104	105	106	107	108
D <sub>4</sub>	D <sub>3</sub>	D <sub>3</sub>	D <sub>2</sub>	D <sub>1</sub>	D <sub>4</sub>	D <sub>1</sub>	D <sub>3</sub>	D <sub>4</sub>	D <sub>2</sub>	D <sub>2</sub>	D <sub>1</sub>
P <sub>1</sub>	P <sub>3</sub>	P <sub>2</sub>	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>3</sub>	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>2</sub>	P <sub>1</sub>

Plant Population

P<sub>1</sub> = 25,000 plants/ha

P<sub>2</sub> = 50,000 plants/ha

P<sub>3</sub> = 75,000 plants/ha

Plot No.

109	110	111	112	113	114	115	116	117	118	119	120
D <sub>3</sub>	D <sub>4</sub>	D <sub>4</sub>	D <sub>1</sub>	D <sub>2</sub>	D <sub>2</sub>	D <sub>3</sub>	D <sub>1</sub>	D <sub>4</sub>	D <sub>2</sub>	D <sub>1</sub>	D <sub>3</sub>
P <sub>2</sub>	P <sub>2</sub>	P <sub>1</sub>	P <sub>3</sub>	P <sub>3</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>1</sub>	P <sub>3</sub>	P <sub>1</sub>	P <sub>2</sub>	P <sub>1</sub>

→ 5.3m ←

81105803 81109803

Dates Spectral Data Collected

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Plot Number	6/17	6/26	7/6	7/9	7/10	7/24	7/30	8/11	8/17
Number of Observations									
1	2	2	2	2	2	2	2	2	2
2	-	-	2	2	2	2	2	2	2
3	2	2	2	2	2	2	2	2	2
4	-	-	2	2	2	2	2	2	2
5	2	2	2	2	2	2	2	2	2
6	-	-	2	2	2	2	2	2	2
7	2	2	2	2	2	2	2	2	2
8	2	2	2	2	2	2	2	2	2
9	2	2	2	2	2	2	2	2	2
10	2	2	2	2	2	2	2	2	2
11	2	2	2	2	2	2	2	2	2
12	2	2	2	2	2	2	2	2	2
13	4	2	3	-	2	2	2	2	2
14	4	2	2	-	2	2	2	2	2
15	2	2	2	-	2	2	2	2	2
16	-	-	2	-	2	2	2	2	2
17	2	2	2	-	2	2	2	2	2
18	2	2	2	-	2	2	2	2	2
19	2	2	2	-	2	2	2	2	2
20	2	2	2	-	2	2	2	2	2
21	2	2	2	-	2	2	2	2	2
22	-	-	2	-	2	2	2	2	2
23	2	2	2	-	2	2	2	2	2
24	-	-	2	-	2	2	2	2	2

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Dates Spectral Data Collected, (con't.)

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Plot Number	8/20	9/8	9/10	9/19	9/28	10/8
Number of Observations						
1	2	2	2	2	2	2
2	2	2	2	2	2	2
3	2	2	2	2	2	2
4	2	2	2	2	2	2
5	2	2	2	2	2	2
6	2	2	2	2	2	2
7	2	2	2	2	2	2
8	2	2	2	2	2	2
9	2	2	2	2	2	2
10	2	2	2	2	2	2
11	2	2	2	0	2	2
12	2	2	2	4	2	2
13	2	2	2	2	2	2
14	2	2	2	2	2	2
15	2	2	5	2	2	2
16	2	2	0	2	2	2
17	2	2	1	2	2	2
18	2	2	2	2	2	2
19	2	2	2	2	2	2
20	2	2	2	2	2	2
21	2	2	2	2	2	2
22	2	2	2	2	2	2
23	2	2	2	2	2	2
24	2	2	2	2	2	2

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Dates Spectral Data Collected (con't.)

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Plot Number	6/17	6/26	7/6	7/9	7/10	7/24	7/30	8/11	8/17
	Number of Observations								
97	-	-	2	-	2	2	2	2	2
98	2	2	2	-	-	0	-	-	-
99	2	2	2	-	2	2	2	2	2
100	2	2	2	-	2	2	2	2	2
101	2	2	2	-	2	2	2	2	2
102	-	-	2	-	2	2	2	2	2
103	2	2	2	-	2	2	2	2	2
104	3	2	2	-	2	2	2	2	2
105	-	-	2	-	2	2	2	2	2
106	2	2	2	-	2	2	2	2	2
107	2	2	2	-	2	2	2	2	2
108	2	2	2	-	2	2	2	2	2
109	2	2	2	-	2	2	2	2	2
110	-	-	2	-	2	2	2	2	2
111	-	-	2	-	2	2	2	2	2
112	2	2	2	-	2	2	2	2	2
113	2	2	2	-	2	2	2	2	2
114	2	2	2	-	2	2	2	2	2
115	2	2	2	-	2	2	2	2	2
116	2	3	2	-	2	2	2	2	2
117	-	-	2	-	2	2	2	2	2
118	2	2	2	-	2	2	2	2	2
119	2	2	2	-	2	2	2	2	2
120	2	2	2	-	2	2	2	2	2

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Dates Spectral Data Collected (con't.)

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Plot Number	8/20	9/8	9/10	9/19	9/28	10/8
	Number of Observations					
97	2	-	2	2	2	2
98	-	-	-	-	-	2
99	2	-	2	2	2	2
100	2	-	2	2	2	2
101	3	-	2	2	2	2
102	1	-	2	2	2	2
103	2	-	2	2	2	2
104	2	-	2	2	2	2
105	2	-	2	2	2	2
106	2	-	2	2	2	2
107	2	-	2	61	2	2
108	2	-	2	2	2	2
109	2	-	2	2	-	2
110	2	-	2	2	-	2
111	2	-	2	2	-	2
112	2	-	2	2	-	2
113	2	-	2	2	-	2
114	2	-	2	2	-	2
115	2	-	2	2	-	2
116	2	-	3	2	-	2
117	2	-	2	2	-	2
118	2	-	2	2	-	-
119	2	-	2	2	-	-
120	2	-	2	2	-	-

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# Illumination Conditions for Spectral Data Collection

81105803

Date	Day of year	Time Period (GMT)		Solar Zenith Angle Range (degrees)		Solar Azimuth Angle range (°)	Cloud Coverage
		Start	Stop	max	min	max	
6/17	168	18:41	20:22				00
6/26	176	14:59	16:22				00
7/6	187	15:07	16:33				00
7/9	190	16:19	16:27				25
7/10	191	16:31	18:15				00
7/24	205	15:29	16:56				00
7/30	211	15:54	17:58				00
8/11	223	15:17	17:40				01-20
8/17	229	16:09	19:40				15-50
8/20	232	15:22	17:27				00-01
9/8	251	16:07	16:37				05-60
9/10	253	15:42	17:25				00
9/19	262	16:18	18:34				00
9/28	271	15:28	17:33				00
10/8	281	18:43	19:56				05
							00