

134

Plot No.	49	50	51	52	53	54	55	56	57	58	59	60
	D <sub>3</sub>	D <sub>1</sub>	D <sub>2</sub>	D <sub>1</sub>	D <sub>2</sub>	D <sub>3</sub>	D <sub>1</sub>	D <sub>3</sub>	D <sub>1</sub>	D <sub>2</sub>	D <sub>3</sub>	D <sub>2</sub>
	H <sub>2</sub>	H <sub>1</sub>	H <sub>2</sub>	H <sub>2</sub>	H <sub>1</sub>	H <sub>1</sub>	H <sub>2</sub>	H <sub>2</sub>	H <sub>1</sub>	H <sub>1</sub>	H <sub>1</sub>	H <sub>2</sub>

15.8m

**SORGHUM CULTURAL PRACTICES**

Planting Date      Hybrid  
 D<sub>1</sub>=28 May 1981      H<sub>1</sub>=NK300(semi-dwarf)  
 D<sub>2</sub>=9 June 1981      H<sub>2</sub>=BR64(dwarf)  
 D<sub>3</sub>=30 June 1981

Plot No.	61	62	63	64	65	66	67	68	69	70	71	72
	D <sub>1</sub>	D <sub>3</sub>	D <sub>2</sub>	D <sub>1</sub>	D <sub>3</sub>	D <sub>2</sub>	D <sub>2</sub>	D <sub>3</sub>	D <sub>1</sub>	D <sub>2</sub>	D <sub>1</sub>	D <sub>3</sub>
	P <sub>1</sub>	P <sub>2</sub>	P <sub>1</sub>	P <sub>2</sub>	P <sub>1</sub>	P <sub>2</sub>	P <sub>1</sub>	P <sub>2</sub>	P <sub>2</sub>	P <sub>2</sub>	P <sub>1</sub>	P <sub>1</sub>

**SUNFLOWER CULTURAL PRACTICES**

Planting Date      Plant Population  
 D<sub>1</sub>=28 May 1981      P<sub>1</sub>=37,500 plants/ha  
 D<sub>2</sub>=9 June 1981      P<sub>2</sub>=75,000 plants/ha  
 D<sub>3</sub>=30 June 1981

Plot No.	73	74	75	76	77	78	79	80	81	82	83	84
	C <sub>6</sub>	C <sub>1</sub>	C <sub>5</sub>	C <sub>3</sub>	C <sub>4</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>1</sub>	C <sub>4</sub>	C <sub>6</sub>	C <sub>2</sub>	C <sub>5</sub>

**SOYBEAN VARIETIES**

Cultivar  
 C<sub>1</sub>=Hodgson 78 maturity group I      C<sub>4</sub>=Cutler 71 maturity group IV  
 C<sub>2</sub>=Amsoy 71 maturity group II      C<sub>5</sub>=Gnome(semi-dwarf) maturity group II  
 C<sub>3</sub>=Williams maturity group III      C<sub>6</sub>=Elf(semi-dwarf) maturity group III

Plot No.	85	86	87	88	89	90	91	92	93	94	95	96
	H <sub>2</sub>	H <sub>2</sub>	H <sub>3</sub>	H <sub>3</sub>	H <sub>1</sub>	H <sub>1</sub>	H <sub>2</sub>	H <sub>2</sub>	H <sub>1</sub>	H <sub>1</sub>	H <sub>3</sub>	H <sub>3</sub>
	P <sub>2</sub>	P <sub>2</sub>	P <sub>1</sub>	P <sub>1</sub>	P <sub>1</sub>	P <sub>1</sub>	P <sub>1</sub>	P <sub>1</sub>	P <sub>2</sub>	P <sub>2</sub>	P <sub>2</sub>	P <sub>2</sub>

5.3m

**CORN HYBRIDS**

Hybrid      Plant Population  
 H<sub>1</sub>=DeKalb XL72AA (vertical leaves)      P<sub>1</sub>=37,500 plants/ha  
 H<sub>2</sub>=DeKalb XL71 (horizontal leaves)      P<sub>2</sub>=75,000 plants/ha  
 H<sub>3</sub>=DeKalb 4F34 (Flint)

81108804, 81109886  
 9886118, 9886118  
 811886

124.

Dates Spectral Data Collected

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Plot Number	6/17	6/27	7/7	7/9	7/30	8/11	8/17	8/20	9/8
	Number of Observations								
73	2	2	2	2	2	2	2	2	2
74	2	2	2	2	2	2	2	2	2
75	2	2	2	2	2	2	2	2	2
76	2	2	2	2	2	2	2	2	2
77	2	2	2	2	2	2	2	2	2
78	2	2	2	2	2	2	2	2	2
79	2	2	2	2	2	2	2	2	2
80	2	2	2	2	2	2	2	2	2
81	2	2	2	2	2	2	2	2	2
82	2	2	2	2	2	2	2	2	2
83	2	2	2	2	2	2	2	2	2
84	2	2	2	2	2	2	2	2	2

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Dates Spectral Data Collected (con't.)

Plot Number	9/10	9/19	9/28
	Number of Observations		
73	2	2	4
74	2	2	2
75	2	2	2
76	2	2	2
77	2	2	2
78	2	2	2
79	2	2	2
80	2	2	2
81	2	2	2
82	2	2	2
83	2	2	2
84	2	2	2

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# Illumination Conditions for Spectral Data Collection

81105 806

Date	Day of year	Time Period (GMT)		Solar Zenith angle range (°)		Solar Azimuth angle range (°)	Cloud cover (%)
		start	stop	max	min	max	
6/17	168	21:18	21:24				00
6/27	177	16:45	16:53				?
7/7	188	15:33	15:41				00
7/9	190	15:53	16:00				10
7/30	211	17:07	17:12				00
8/11	223	16:30	16:36				00
8/17	229	17:57	18:02				15
8/20	232	16:43	16:48				00
9/8	251	18:26	18:32				10
9/10	253	18:19	18:25				00
9/19	262	17:33	17:39				00
9/28	271	17:13	17:19				25