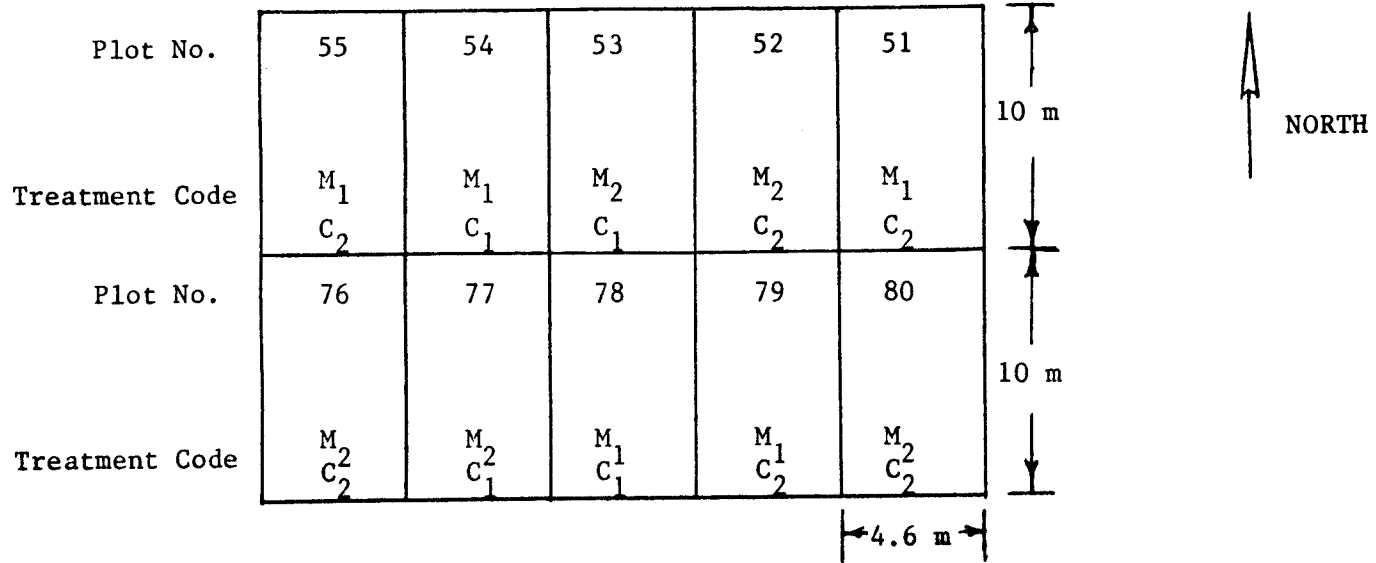


Corn Soil Moisture Experiment



79105807

Treatment Code  
Surface Moisture  
 M<sub>1</sub> = dry  
 M<sub>2</sub> = wet

Cultivation  
 C<sub>1</sub> = no cultivation  
 C<sub>2</sub> = cultivation

Notes

1. Pioneer 3870 was planted on 31 May, 1979 at 64,500 plants/ha.
2. Six 76 cm-wide rows per plot.
3. Agronomy Farm Field 31-1B.

Figure 104.1 Design and treatment descriptions of the 1979 Purdue Agronomy Farm soil background experiment.

## LARSPEC Identification Record Code

### 1. Level of Factor Codes

Factor		Level	
<u>Code</u>	<u>Description</u>	<u>Code</u>	<u>Description</u>
1:	Cultivation	1:	No cultivation
		2:	Cultivation
2:	Surface moisture	1:	dry
		2:	wet
3:	Block or replication	1:	First block
		2:	Second block

### 2. Experimenters Parameters

Experimenter parameter 09: Air temperature as measured by a probe attached to the boom supporting the multiband radiometer in degrees Celsius.

Experimenter parameter 10: Radiant temperature as measured by a precision radiation thermometer (PRT-5) obliquely viewing the top surface of the canopy in degrees Celsius.

Illumination Conditions for Spectral Data Collection

Date	Day of Year	Time Peirod (GMT)		Solar Zenith Angle Range (degrees)	Solar Azimuth Angle Range (degree)	Cloud Cover (%)
		Start	Stop	max-min-max		
5/16	136	17:21	19:21	22 - 22 - 30	165-231	10
6/4	155	15:43	16:19	32 - 26	116-128	?
6/11	162	15:15	15:51	36 - 30	107-117	0
6/14	165	15:46	16:15	31 - 26	115-124	?
6/15	166	15:23	15:48	35 - 31	108-115	0
6/21	172	15:20	15:59	36 - 29	107-118	0-5
6/25	176	15:22	15:46	35 - 31	107-114	0-1
6/26	177	15:44	16:10	32 - 27	113-121	10
7/2	183	15:15	15:41	37 - 32	106-112	5
7/10	191	15:17	15:58	38 - 30	107-118	15
7/16	197	15:18	15:41	38 - 34	108-114	5
7/18	199	15:20	15:47	38 - 33	109-116	0
8/4	216	16:28	16:31	30 - 29	135-136	25
8/8	220	19:31	20:06	32 - 37	228-240	?
8/12	224	17:29	17:32	26 - 26	167-168	0
8/30	242	15:19	15:20	45 - 45	123-123	?
9/4	247	15:46	16:13	43 - 39	132-141	5
9/9	252	16:03	16:28	42 - 39	140-148	0
9/17	260	18:55	19:37	41 - 46	208-222	?
9/24	267	16:08	16:40	46 - 43	147-158	?
10/29	302	16:51	16:54	54 - 54	168-169	0

Dates Spectral Data Collected:

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Plot Number	Number of Observations Collected									
	5/16	6/4	6/11	6/14	6/15	6/21	6/25	6/26	7/2	7/10
51	2	2	2	2	2	2	2	2	2	2
52	-	2	2	2	2	2	2	2	2	2
53	-	2	2	2	2	2	2	2	2	2
54	-	2	2	2	2	2	2	2	2	2
55	2	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

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Plot Number	Number of Observations Collected										
	7/16	7/18	8/4	8/8	8/12	8/30	9/4	9/9	9/17	9/24	10/29
51	2	2	-	2	2	-	2	2	2	2	2
52	2	2	-	2	2	-	2	2	2	2	2
53	2	2	-	2	2	-	2	2	2	2	2
54	2	2	-	2	2	-	2	2	2	2	2
55	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	-

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