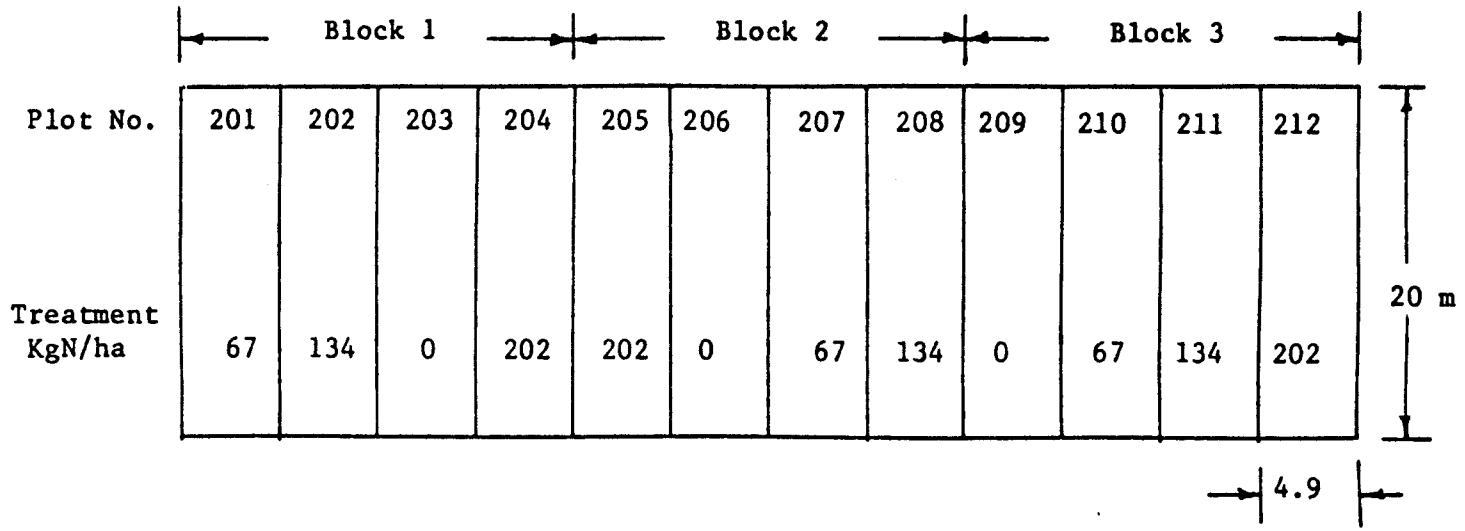

7910080Z

Notes

1. Pioneer 3183 corn was planted on May 10, 1979 at 66,100 plants/ha.
2. Six 71 cm-wide rows per plot. Row direction was East-west.
3. Purdue Agronomy Farm Field 55.

Figure 93.1. Design and treatment descriptions of the 1979 Purdue Agronomy Farm corn nitrogen fertilization experiment.

LARSPEC Identification Record Codes

1. Level of Factor Codes

Factor		Level	
Code	Description	Code	Description
1:	Nitrogen fertilization	1:	0 kg/ha
		2:	67 kg/ha
		3:	134 kg/ha
		4:	202 kg/ha
2:	Block or replication	1:	First block
		2:	Second block
		3:	Third block

2. Experimenter Parameters

Experimenter parameter 01: Measurements of leaf chlorophyll concentration in micrograms per square centimeter.

Experimenter parameter 02: Measurements of leaf nitrogen in percent (grams of nitrogen per grams of leaf dry weight).

Dates Spectral Data Collected

Plot Number	Number of Observations Collected											
	6/11	6/23	6/26	7/2	7/6	7/10	7/16	7/18	8/4	8/16	9/4	9/15
201	1	2	2	1	1	1	1	1	1	1	1	1
202	2	1	1	2	2	2	2	2	2	2	2	2
203	1	1	2	1	1	1	1	1	1	1	1	1
204	2	2	1	2	2	1	2	2	2	2	2	2
205	1	1	1	1	1	1	1	1	1	1	1	1
206	2	1	1	1	2	1	1	1	1	1	1	1
207	1	2	2	2	2	2	2	2	2	1	2	2
208	1	1	1	1	1	1	1	1	1	1	1	1
209	1	1	1	2	-	1	1	1	1	1	1	1
210	2	1	1	1	-	1	1	1	1	2	1	1
211	1	4	2	2	-	2	2	2	1	1	2	2
212	1	1	1	1	-	1	1	1	1	1	1	1

Illumination Conditions for Spectral Data Collection

Date	Day of Year	Time Period (GMT)		Solar Zenith Angle Range (degrees) max-min-max	Solar Azimuth Angle Range (degrees)	Cloud Cover (%)
		Start	Stop			
6/11	162	15:30	16:38	34 - 23	111-135	0
6/23	174	16:08	17:10	27 - 19	121-151	10
6/26	177	15:28	16:20	34 - 26	109-125	10
7/2	183	15:14	16:10	37 - 28	106-121	5
7/6	187	15:49	16:45			20
7/10	191	15:24	16:33	36 - 25	109-131	15
7/16	197	15:12	16:07	39 - 30	107-122	5
7/18	199	15:12	16:11	39 - 29	107-124	0
8/4	216	16:23	17:22	30 - 24	133-161	25
8/16	228	15:27	16:57	41 - 29	119-152	30
9/4	247	16:24	17:25	38 - 33	145-170	5
9/15	258	16:26	17:28	41 - 37	150-174	10-25