

NORTH



Block 1			Block 2			Block 3			Block 4		
Plot No.	Treatment R V P		Plot No.	Treatment R V P		Plot No.	Treatment R V P		Plot No.	Treatment R V P	
501	1 3 2		528	1 3 2		555	1 2 2		582	2 1 2	
502	1 2 2		529	2 1 2		556	3 1 2		583	2 2 2	
503	3 1 1		530	2 1 3		557	1 2 1		584	2 2 3	
504	2 1 2		531	3 1 3		558	1 1 1		585	3 2 2	
505	3 1 2		532	3 2 1		559	3 3 3		586	1 3 2	
506	2 1 1		533	3 3 3		560	1 3 1		587	2 3 1	
507	1 2 1		534	1 1 3		561	1 3 2		588	1 2 1	
508	2 2 1		535	1 2 3		562	3 3 2		589	1 2 3	
509	3 3 2		536	3 1 1		563	2 3 3		590	1 3 1	
510	3 2 3		537	1 2 2		564	3 1 1		591	2 1 3	
511	3 1 3		538	1 2 1		565	1 2 3		592	3 2 1	
512	2 3 2		539	1 1 1		566	2 3 2		593	3 1 3	
513	1 1 1		540	3 2 3		567	2 1 1		594	3 1 2	
514	3 2 1		541	1 3 1		568	3 2 2		595	1 2 2	
515	1 1 3		542	2 2 2		569	3 2 1		596	3 3 2	
516	1 2 3		543	3 2 2		570	2 3 1		597	1 1 3	
517	3 2 2		544	2 2 1		571	1 1 3		598	1 1 1	
518	2 1 3		545	3 3 1		572	2 2 2		599	3 3 2	
519	1 3 1		546	3 3 2		573	1 1 2		600	3 1 1	
520	3 3 3		547	3 1 2		574	2 1 3		601	2 3 2	
521	2 2 2		548	2 3 1		575	3 2 3		602	3 2 3	
522	1 3 3		549	2 2 3		576	2 1 2		603	3 3 3	
523	2 2 3		550	1 1 2		577	2 2 1		604	2 1 1	
524	1 1 2		551	2 3 2		578	3 3 1		605	1 1 2	
525	2 3 1		552	2 1 1		579	3 1 3		606	2 2 1	
526	3 3 1		553	2 3 3		580	1 3 3		607	2 3 3	
527	2 3 3		554	1 3 3		581	2 2 3		608	1 3 3	

Row Spacing	Variety	Population	
		Amsoy 71 & Wells	Elf
R1 = 15 cm	V1 = Amsoy 71	P1 = 111 K plants/ha	P1 = 185 K plants/ha
R2 = 46 cm	V2 = Wells	P2 = 185 K	P2 = 259 K
R3 = 91 cm	V3 = Elf	P3 = 259 K	P3 = 334 K

Figure 85.1. Design and treatment descriptions of soybean cultural practices experiment.

## LARSPEC Identification Record Codes

### 1. Level of Factor Codes

Factor		Level	
Code	Description	Code	Description
1:	Row width	1:	15 cm.
		2:	46 cm.
		3:	91 cm.
2:	Cultivar	1:	Amsoy 71
		2:	Wells
		3:	Elf
3:	Population	Amsoy 71 & Wells	
		1:	111,000 plants/ha
		2:	185,000
		3:	259,000
		Elf	
		1:	185,000
		2:	259,000
		3:	334,000
4:	Block or replication	1:	First block
		2:	Second block
		3:	Third block

### 2. Experimenter Parameters

Experimenter parameter 01: Grain yield in kilograms per hectare.

Illumination Conditions for Spectral Data Collection

Date	Day of Year	Time Period		Solar Zenith Angle Range	Solar Azimuth Angle Range	Cloud Cover
		Start	Stop	max - min - max		
		GMT		degrees	degrees	%
6/22	173	20:30	20:55	38 - 42	255-261	?
7/5	186	15:36	17:00	34 - 21	111-144	0-5
7/6	187	16:05	17:30	29 - 18	120-163	2
7/11	192	19:13	20:28	25 - 37	229-253	3-5
7/17	198	15:25	20:03	37 - 19 - 33	110-245	?
7/20	201	15:12	16:17	40 - 29	107-126	10-30
7/28	209	16:27	18:09	28 - 21 - 22	132-189	0-25
8/3	215	17:48	18:55	23 - 26	176-214	20-30
8/4	216	15:12	15:55	42 - 34	111-123	20-30
8/8	220	17:34	17:47	25 - 24	169-176	0
8/13	225	18:04	18:57	26 - 29	186-213	?
8/21	233	18:03	18:57	28 - 32	186-212	?
8/31	243	16:42	17:51	35 - 32	150-181	5-15
9/19	263	15:31	16:20	49 - 43	134-149	?
<sup>1</sup> 9/23	266	18:45	19:58	43 - 51	204-227	5-10
10/17	280	16:35	17:39	50 - 48	161-182	?

<sup>1</sup>78100805

78105805 (all others)

Dates Spectral Data Collected (Exotech 20C):

<u>Plot</u>	<u>9/23</u>
<u>Number</u>	<u>Number of Observations Collected</u>
501	1
502	1
503	1
504	1
505	1
506	1
507	1
508	1
509	1
510	1
511	1
512	1
513	1
514	1
515	1
516	1
517	1
518	1
519	1
520	1
521	1
522	1
523	1
524	1
525	1
526	1
527	1

Dates Spectral Data Collected (Exotech 100):

Plot Number	7/5	7/6	7/11	7/17	7/20	7/28	8/3	8/4	8/8	8/13	8/21	8/31	9/19	10/17
	Number of Observations Collected													
500	-	-	-	6	-	-	-	-	-	-	-	-	-	-
501	2	2	2	-	-	2	2	2	2	2	2	2	2	2
502	2	2	2	-	-	2	2	2	2	2	2	2	2	2
503	2	2	2	-	-	2	2	2	2	2	2	2	2	1
504	2	2	2	-	-	2	2	2	2	2	2	2	2	2
505	2	2	2	-	-	2	2	2	2	2	2	2	2	2
506	2	2	2	-	-	2	2	2	2	2	2	2	2	2
507	2	2	2	-	-	2	2	2	2	2	2	2	2	2
508	2	2	2	-	-	2	2	2	2	2	2	2	2	2
509	2	2	2	-	-	2	2	2	2	2	2	2	2	2
510	2	2	2	-	-	2	2	2	2	2	2	2	2	2
511	2	2	2	-	-	2	2	2	2	2	2	2	2	2
512	2	2	2	-	-	2	2	2	2	2	2	2	2	2
513	2	2	2	-	-	2	2	2	2	2	2	2	2	1
514	2	2	2	-	-	2	2	2	2	2	2	2	2	2
515	2	2	2	-	-	2	2	2	2	2	2	2	2	2
516	2	2	2	7	-	2	2	2	2	2	2	2	2	2
517	2	2	2	7	-	2	2	2	2	2	2	2	2	2
518	2	2	2	7	-	2	2	2	2	2	2	2	2	2
519	2	2	2	7	-	2	2	2	2	2	2	2	2	2
520	2	2	2	7	-	2	2	2	2	2	2	2	2	2
521	2	2	2	7	-	2	2	2	2	2	2	2	2	2
522	2	2	2	-	-	2	2	2	2	2	2	2	2	2
523	2	2	2	-	-	2	2	2	2	2	2	2	2	2
524	2	2	2	-	2	2	2	2	2	2	2	2	2	2
525	2	2	2	-	2	2	2	2	2	2	2	2	2	2
526	2	2	2	-	2	2	2	2	2	2	2	2	2	2
527	2	2	2	-	2	2	2	2	2	2	2	2	2	2

Dates Spectral Data Collected (Exotech 100) con't:

Plot Number	7/5	7/6	7/11	7/20	7/28	8/4	8/13	8/21	9/19	10/17
Number of Observations Collected										
528	2	2	2	2	2	2	2	2	2	2
529	2	2	2	2	2	2	2	2	2	2
530	2	2	2	2	2	2	2	2	2	2
531	2	2	2	2	2	2	2	2	2	2
532	2	2	2	2	2	2	2	2	2	2
533	2	2	2	2	2	2	2	2	2	2
534	2	2	2	2	2	2	2	2	2	2
535	2	2	2	2	2	2	2	2	2	2
536	2	2	2	2	2	2	2	2	2	2
537	2	2	2	2	2	2	2	2	2	2
538	2	2	2	2	2	2	2	2	2	2
539	2	2	2	2	2	2	2	2	2	2
540	2	2	2	2	2	2	2	2	2	2
541	2	2	2	2	2	2	2	2	2	2
542	2	2	2	2	2	2	2	2	2	2
543	2	2	2	2	2	2	2	2	2	2
544	2	2	2	2	2	2	2	2	2	2
545	2	2	2	2	2	2	2	2	2	2
546	2	2	2	2	2	2	2	2	2	2
547	2	2	2	2	2	2	2	2	2	2
548	2	2	2	2	2	2	2	2	2	2
549	2	2	2	2	2	2	2	2	2	2
550	2	2	2	2	2	2	2	2	2	2
551	2	2	2	2	2	2	2	2	2	2
552	2	2	2	2	2	2	2	2	2	2
553	2	2	2	2	2	2	2	2	2	2
554	2	2	2	2	2	2	2	2	2	2

Dates Spectral Data Collected (Exotech 100) con't:

Plot Number	6/22	7/5	7/6	7/11	7/20	7/28	8/21	8/31	10/17
Number of Observations Collected									
555	2	2	2	2	2	2	2	2	2
556	2	2	2	2	2	2	2	2	2
557	2	2	2	2	2	2	2	2	2
558	2	2	2	2	2	2	2	2	2
559	2	2	2	2	2	2	2	2	2
560	2	2	2	2	2	2	2	2	2
561	2	2	2	2	2	2	2	2	2
562	2	2	2	2	2	2	2	2	2
563	2	2	2	2	2	2	2	2	2
564	2	2	2	2	2	2	2	2	2
565	2	2	2	2	2	2	2	2	2
566	2	2	2	2	2	2	2	2	2
567	2	2	2	2	2	2	2	2	2
568	2	2	2	2	2	2	2	2	2
569	2	2	2	2	2	2	2	2	-
570	2	2	2	2	2	2	2	2	-
571	2	2	2	2	2	2	2	2	-
572	2	2	2	2	2	2	2	2	-
573	2	2	2	2	2	2	2	2	-
574	2	2	2	2	2	2	2	2	-
575	2	2	2	2	2	2	2	2	-
576	2	2	2	2	2	2	2	2	-
577	2	2	2	2	2	2	2	2	-
578	2	2	2	2	2	2	2	2	-
579	2	2	4	2	2	2	2	2	-
580	2	2	4	2	2	2	2	2	-
581	2	2	5	2	2	2	2	2	-