

041575

DISPLAYS
for
LARSYS
Software System:
An Overview

Developed by James D. Russell and John C. Lindenlaub

Laboratory for Applications of Remote Sensing
Purdue University, West Lafayette, Indiana 47907



DISPLAY 1



DISPLAY 2

<i>log-in command</i>	{ login tectra ENTER PASSWORD: *****
<i>log message, with current schedule information</i>	{ ENTER NAME:russell YOUR OPERATORS ARE MIKE AND BOB. NEXT POSSIBLE SHUTDOWN:FRI. BETWEEN 0800 AND 1000. OFF DOWN - PLEASE DO NOT SPOOL TO F READY AT 09.37.03 ON 03/24/75 CP
<i>initiate LARSYS</i>	{ i larsys LARSYS (Ver 3.1) READY;
<i>run LARSYS</i>	{ T=3.46/4.71 09.37.42 run larsys

BTLARSYS
JAMES RUSSELL

LABORATORY FOR APPLICATIONS OF REMOTE SENSING
PURDUE UNIVERSITY

MAR 24, 1975
10 14 58 PM
LARSYS VERSION 3

TAPE NUMBER..... 1000
CONTINUATION CODE..... 0
FLIGHT LINE.. PURDUE FLT LN C1
PLATFORM ALTITUDE. 2600 FEET

FILE NUMBER..... 1
NUMBER OF DATA CHANNELS.... 12
DATE DATA TAKEN..... 6/28/66
GROUND HEADING.... 180 DEGREES
NUMBER OF LINES..... 950

RUN NUMBER..... 66000600
NUMBER OF DATA SAMPLES... 228
TIME DATA TAKEN.... 1229 HOURS
REFORMATTING DATE.JAN 27,1971

CHANNEL	SPECTRAL BAND		CALIBRATION PULSE VALUES		
	LOWER	UPPER	C0	C1	C2
1	0.40	0.44	31.00	41.05	63.05
2	0.44	0.46	31.00	42.45	67.30
3	0.46	0.48	31.00	41.85	63.05
4	0.48	0.50	31.00	44.90	72.05
5	0.50	0.52	31.00	59.10	128.4
6	0.52	0.55	31.00	66.25	139.4
7	0.55	0.58	31.00	59.45	119.7
8	0.58	0.62	31.00	94.80	229.4
9	0.62	0.66	31.00	96.90	232.3
10	0.66	0.72	31.00	126.4	248.7
11	0.72	0.80	31.00	100.5	221.4
12	0.80	1.00	31.00	85.30	214.5

LABORATORY FOR APPLICATIONS OF REMOTE SENSING
PUMPH UNIVERSITY

RUN NUMBER..... 66000600
FLIGHT LINE#... PUMPH FLT LN C1
DATA TAP#..... 210
REFRESHING DATE- JAN 27, 1971

DATE..... 4/28/66
TIME..... 1229
ALTITUDE..... 2600
GROUND HEADING.... 180 DEG REFS

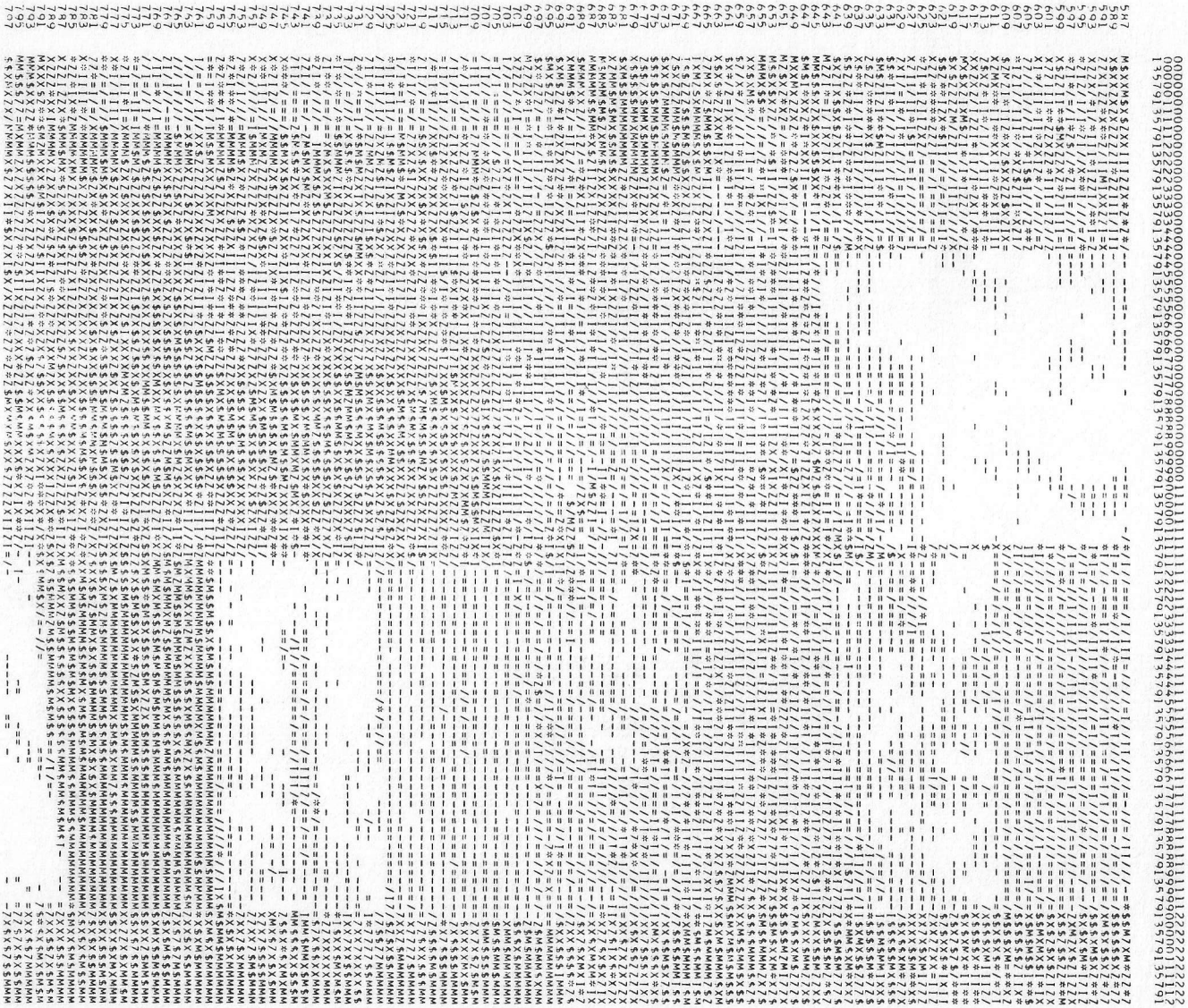
CHANNEL 11 SPECTRAL RAMM 0.72 TO 0.80 MICROMETERS CALIBRATION CODE = 1 CO = 31.00

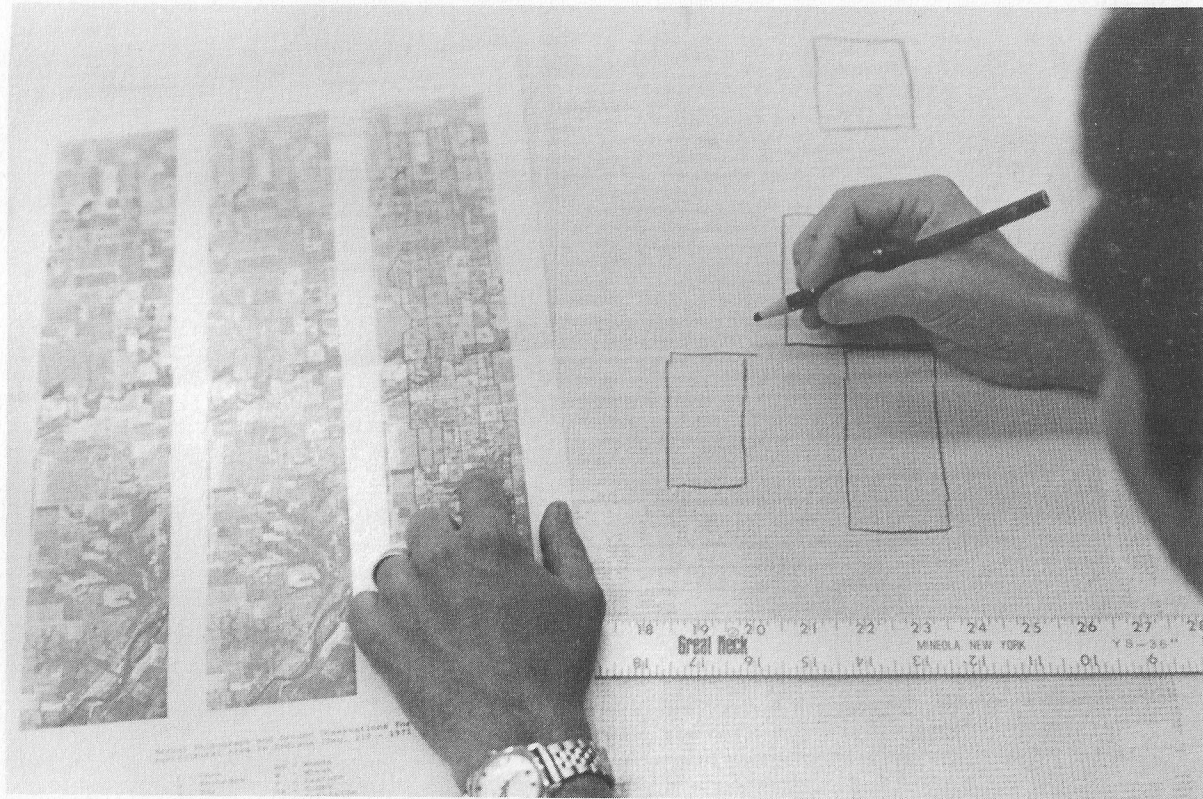
THE CHARACTER SET USED FOR DISPLAY IS

HISTOGRAM BLOCK(S)

FROM 59.5 TO 60.5 DISPLAYED AS M
FROM 60.5 TO 61.5 DISPLAYED AS N
FROM 61.5 TO 62.5 DISPLAYED AS O
FROM 62.5 TO 63.5 DISPLAYED AS P
FROM 63.5 TO 64.5 DISPLAYED AS Q
FROM 64.5 TO 65.5 DISPLAYED AS R
FROM 65.5 TO 66.5 DISPLAYED AS S
FROM 66.5 TO 67.5 DISPLAYED AS T
FROM 67.5 TO 68.5 DISPLAYED AS U
FROM 68.5 TO 69.5 DISPLAYED AS V
FROM 69.5 TO 70.5 DISPLAYED AS W
FROM 70.5 TO 71.5 DISPLAYED AS X
FROM 71.5 TO 72.5 DISPLAYED AS Y
FROM 72.5 TO 73.5 DISPLAYED AS Z
FROM 73.5 TO 74.5 DISPLAYED AS
FROM 74.5 TO 75.5 DISPLAYED AS
FROM 75.5 TO 76.5 DISPLAYED AS
FROM 76.5 TO 77.5 DISPLAYED AS
FROM 77.5 TO 78.5 DISPLAYED AS
FROM 78.5 TO 79.5 DISPLAYED AS
FROM 79.5 TO 80.5 DISPLAYED AS

RUN NUMBER..... 66000600
LIMITS..... 3871 2274
CALIBRATION CODE..... 1



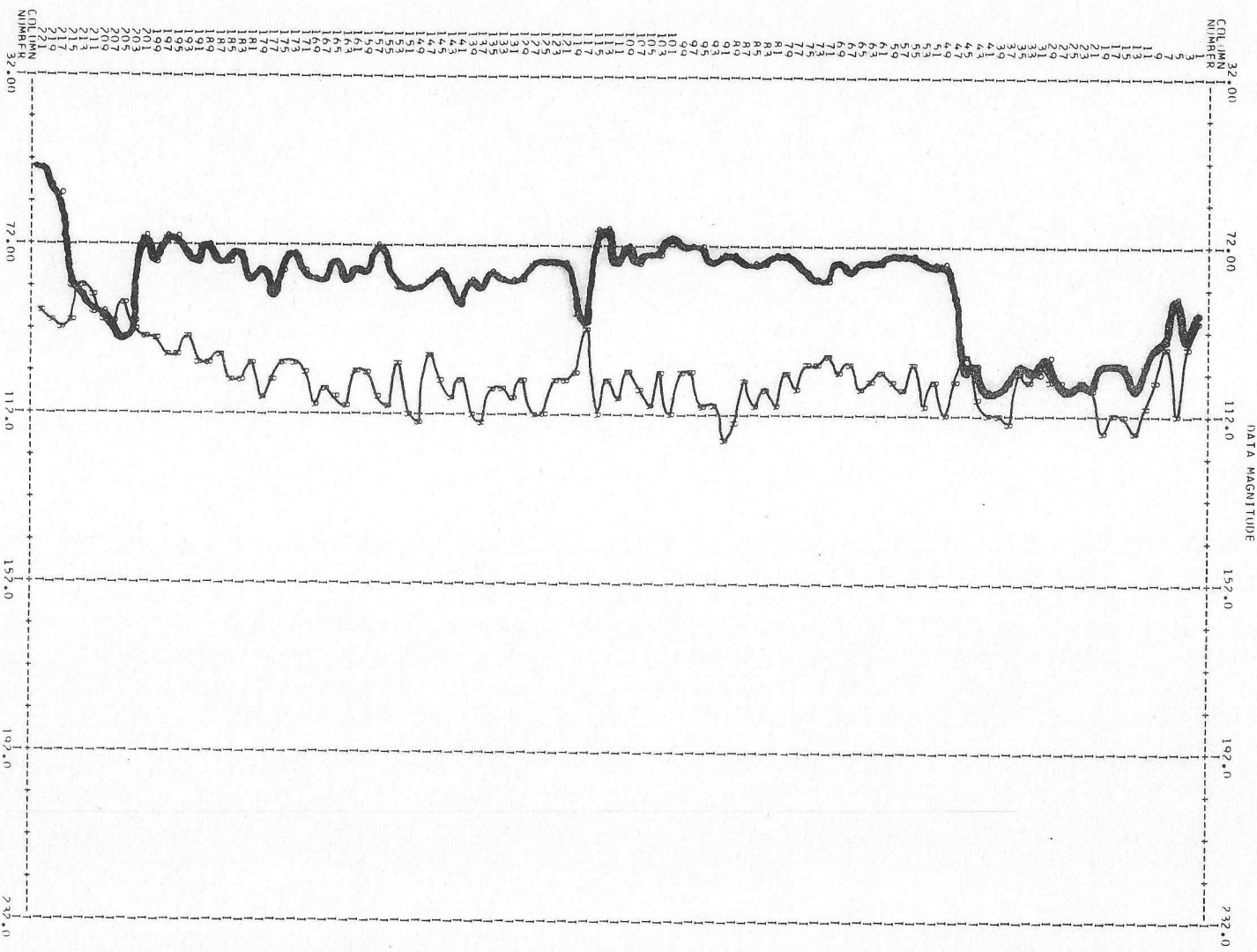


DISPLAY 7

***** GRAPH OF LINE 659 *****

RUN NUMBER..... 66000600 DATE..... 6/28/66
 FLIGHT LINE.. PURDUE FLT LN C1 TIME..... 1229
 DATA TAPE..... 210 ALTITUDE..... 2600
 REFORMATING DATE, JAN 27, 1971 GROUND HEADING..... 180 DEGREES

CHANNEL 9 SPECTRAL BAND 0.62 TO 0.66 MICROMETERS DISPLAYED AS.. 9 CALCOMP = 1 CN = 31.00
 CHANNEL 11 SPECTRAL BAND 0.72 TO 0.80 MICROMETERS DISPLAYED AS.. R CALCOMP = 1 CN = 31.00



CALIBRATION FOR LINE 659

CHANNEL	C0	MEAN	VARIANCE	C1	MEAN	VARIANCE	C2	MEAN	VARIANCE
11		31.0	4.0	99.0	5.0	230.0	1.0	219.0	3.0

ROLL WAS NOT CALCULATED FOR THIS DATA.

XBLARSYS
JAMES RUSSELL

LABORATORY FOR APPLICATIONS OF REMOTE SENSING
PURDUE UNIVERSITY

DEC 20, 1974
6 52 27 PM
LARSYS VERSION 3

FIELD INFORMATION

FIELD DD1
RUN NO. 71053900
OTHER INFORMATION

TYPE SOYBEANS
NO. OF SAMPLES 351

LINES 425- 443 (BY 1)
COLUMNS 109- 127 (BY 1)

11111111111111111111
01111111111122222222
9012345678901234567

425)))))))X)
426)))))))
427)))))))X)
428)))))))
429)))))))XXXXX)
430)))))))X)
431)))))))XXX)XXXXX)
432)SXSX XX)))))))
433)))))))
434)))))))
435)))))))
436)))))))NNNNNNXXN)
437)))))))NNNNNNXXN)
438)))))))NNNNNNMXXN)
439)))))))NNNNNNMXXN)
440)))))))X))
441)))))))NXX))X)
442)))))))
443)))))))X)

NUMBER OF POINTS PER CLUSTER

CLUSTER	1	2	3	4	5	6
SYMBOL		I	S	X	N	M
POINTS	2	285	2	42	27	3

XBLARSYS
JAMES RUSSELL

LABORATORY FOR APPLICATIONS OF REMOTE SENSING
PURDUE UNIVERSITY

DEC 20, 1974
6 52 26 PM
LARSYS VERSION 3

FIELD INFORMATION

FIELD J5
RUN NO. 71053900
OTHER INFORMATION

TYPE SOYBEANS
NO. OF SAMPLES 529

LINES 307- 323 (BY 1)
COLUMNS 33- 69 (BY 1)

00000000300000000000000000000000000000000000
33333334444444444445555555555556666666666666
34567890123456789012345678901234567890123456789

307)))
308)))
309)))
310)))
311)))
312)))
313)))
314)))
315)))
316)))
317)))
318)))
319)))
320)))
321)))
322)))
323)))

NUMBER OF POINTS PER CLUSTER

CLUSTER	1	2	3	4	5	6
SYMBOL)	S	X	N	M
POINTS	1	626	0	2	0	0

XBLARSYS
JAMES RUSSELL

LABORATORY FOR APPLICATIONS OF REMOTE SENSING
PURDUE UNIVERSITY

DEC 20, 1974
6:52:25 PM
LARSYS VERSION 3

FIELD INFORMATION

FIELD KK2
RUN NO. 71053900
OTHER INFORMATION

TYPE SOYBEANS
NO. OF SAMPLES 357

LINES 873- 893 (BY 1)
COLUMNS 91- 107 (BY 1)

00000000011111111
99999999900000000
12345678901234567

```

873  )))))))
874  )))))))
875  )))))))
876  )))))))
877  )))))))
878  )))))))
879  )))))))
880  )))))))
881  )))))))
882  )))))))
883  )))))))
884  )))))))
885  )))))))
886  )))))))
887  )))))))
888  )))))))
889  )))))))
890  )))))))
891  )))))))
892  )))))))
893  )))))))

```

NUMBER OF POINTS PER CLUSTER

CLUSTER	1	2	3	4	5	6
SYMBOL)	S	X	N	M
POINTS	6	322	1	28	0	0

XBLARSYS
JAMES RUSSELL

LABORATORY FOR APPLICATIONS OF REMOTE SENSING
PURDUE UNIVERSITY

DEC 20, 1974
6 52 23 PM
LARSYS VERSION 3

SEPARABILITY INFORMATION

I	J	D(I,J)	D(I)	D(J)	D(I)+D(J)	QJOT
1	2	29.389	15.336	9.044	24.381	1.205
1	3	14.622	16.978	13.979	30.957	0.472
1	4	27.353	18.073	9.405	27.478	0.995
1	5	38.778	17.941	9.831	27.772	1.396
1	6	39.598	18.665	9.776	28.441	1.392
2	3	21.046	8.883	10.657	19.540	1.077
2	4	16.462	11.159	11.893	23.052	0.714
2	5	26.791	12.993	12.355	25.348	1.057
2	6	30.379	12.446	9.573	22.019	1.380
3	4	17.549	12.113	8.873	20.986	0.836
3	5	24.958	13.648	9.640	23.287	1.072
3	6	27.406	13.874	9.259	23.134	1.135
4	5	17.931	13.149	9.309	22.458	0.851
4	6	17.415	12.154	11.113	23.267	0.748
5	6	8.753	7.590	8.875	16.465	0.532

AVERAGE QJOTIENT 0.991

CLASS....CORN TOTAL NUMBER OF SAMPLES... 1428

THE MEAN AND STANDARD DEVIATION VECTORS

CHANNEL	1	2	3	4	5	6	7	8	9	10	11	12
SPECTRAL BAND	0.40 - 0.44	0.44 - 0.46	0.46 - 0.48	0.48 - 0.50	0.50 - 0.52	0.52 - 0.55	0.55 - 0.58	0.58 - 0.62	0.62 - 0.66	0.66 - 0.72	0.72 - 0.80	0.80 - 1.00
MEAN	77.84	72.91	56.58	56.77	76.62	82.26	60.07	72.84	58.51	73.57	114.12	88.51
STD. DEV.	6.08	5.09	3.31	3.39	6.00	5.18	3.26	5.63	4.77	6.01	12.50	9.59

CORRELATION MATRIX

SPECTRAL BAND	0.40 - 0.44	0.44 - 0.46	0.46 - 0.48	0.48 - 0.50	0.50 - 0.52	0.52 - 0.55	0.55 - 0.58	0.58 - 0.62	0.62 - 0.66	0.66 - 0.72	0.72 - 0.80	0.80 - 1.00
0.40 - 0.44	1.00											
0.44 - 0.46	0.93	1.00										
0.46 - 0.48	0.91	0.90	1.00									
0.48 - 0.50	0.91	0.93	0.90	1.00								
0.50 - 0.52	0.90	0.91	0.92	0.92	1.00							
0.52 - 0.55	0.81	0.85	0.84	0.88	0.92	1.00						
0.55 - 0.58	0.73	0.77	0.81	0.83	0.86	0.92	1.00					
0.58 - 0.62	0.73	0.81	0.82	0.85	0.89	0.91	0.90	1.00				
0.62 - 0.66	0.73	0.80	0.80	0.86	0.86	0.88	0.88	0.95	1.00			
0.66 - 0.72	0.17	0.28	0.35	0.37	0.46	0.61	0.69	0.70	0.67	1.00		
0.72 - 0.80	-0.46	-0.44	-0.36	-0.40	-0.28	-0.10	-0.02	-0.14	-0.20	0.47	1.00	
0.80 - 1.00	-0.56	-0.51	-0.43	-0.45	-0.34	-0.15	-0.07	-0.14	-0.19	0.51	0.89	1.00

CLASS....CORN

FIELD 12-9
RUN NO. 66000600
OTHER INFORMATION

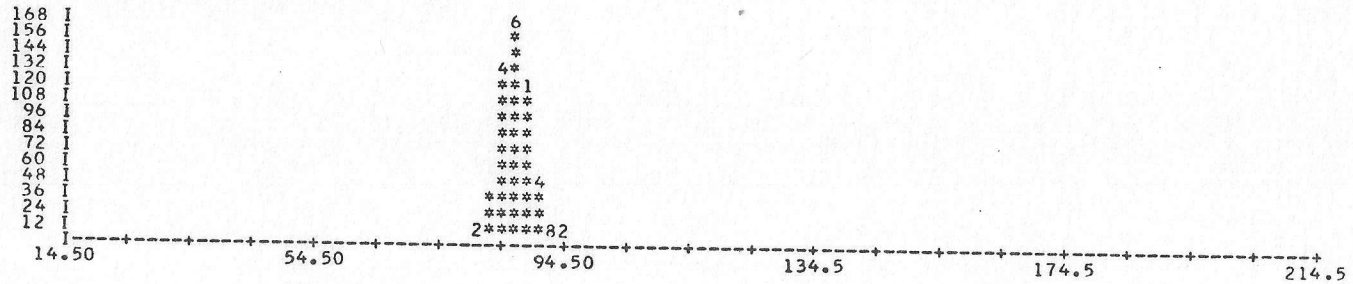
TYPE CORN4
NO. OF SAMPLES 483

LINES 603- 625 (RY 1)
COLUMNS 13- 33 (BY 1)

HISTOGRAM(S) FOR...FIELD 12-9

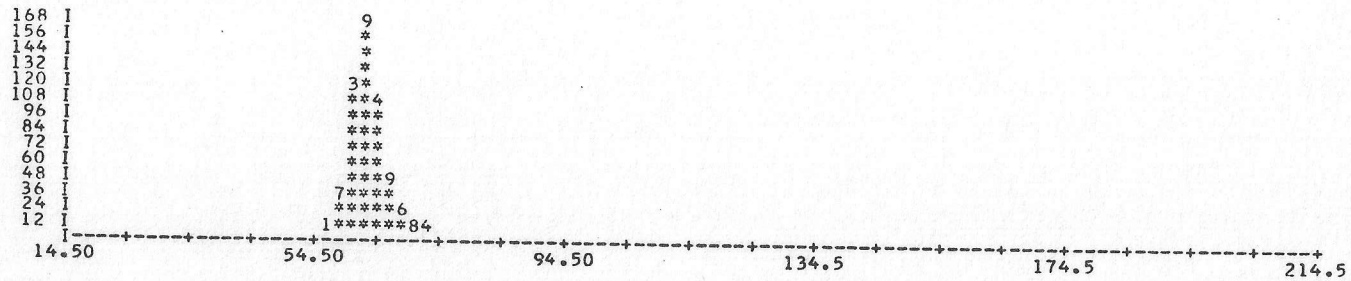
CHANNEL 1 0.40 - 0.44 MICROMETERS

EACH * REPRESENTS 12 POINT(S).



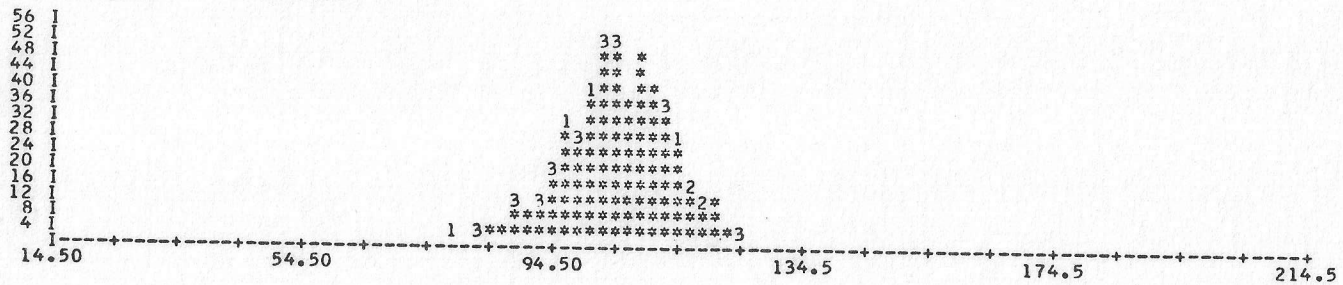
CHANNEL 9 0.62 - 0.66 MICROMETERS

EACH * REPRESENTS 12 POINT(S).



CHANNEL 11 0.72 - 0.80 MICROMETERS

EACH * REPRESENTS 4 POINT(S).



NASHUA MODEL 914, 420, 720
FEED
NOTES
FEED
989, 933, 818, 810DM
FEED
Page Print
7000/0000
3600/1
2400
MODEL
FEED

CLASS...CORN

FIELD 12-9
RUN NO. 66000600
OTHER INFORMATION

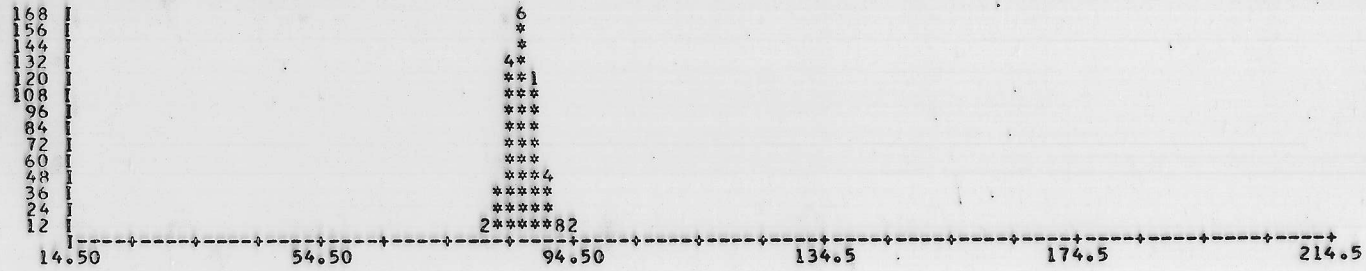
TYPE CORN4
NO. OF SAMPLES 483

LINES 603-625 (BY 11)
COLUMNS 13-33 (BY 11)

HISTOGRAM(S) FOR...FIELD 12-9

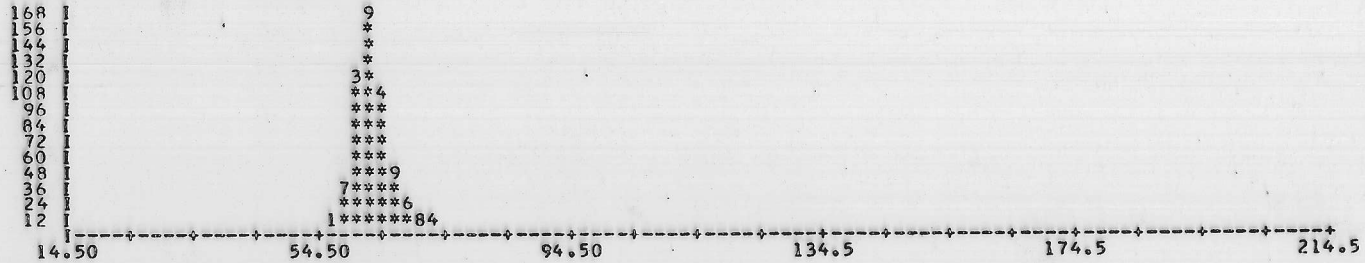
CHANNEL 1 0.40 - 0.44 MICROMETERS

EACH * REPRESENTS 12 POINT(S).



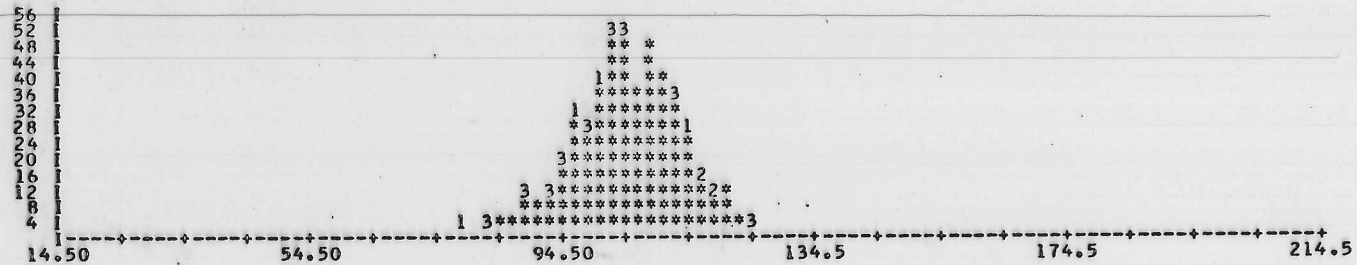
CHANNEL 9 0.62 - 0.66 MICROMETERS

EACH * REPRESENTS 12 POINT(S).



CHANNEL 11 0.72 - 0.80 MICROMETERS

EACH * REPRESENTS 4 POINT(S).



CLASS...CORN

FIELD 8-20
RUN NO. 66000600
OTHER INFORMATION

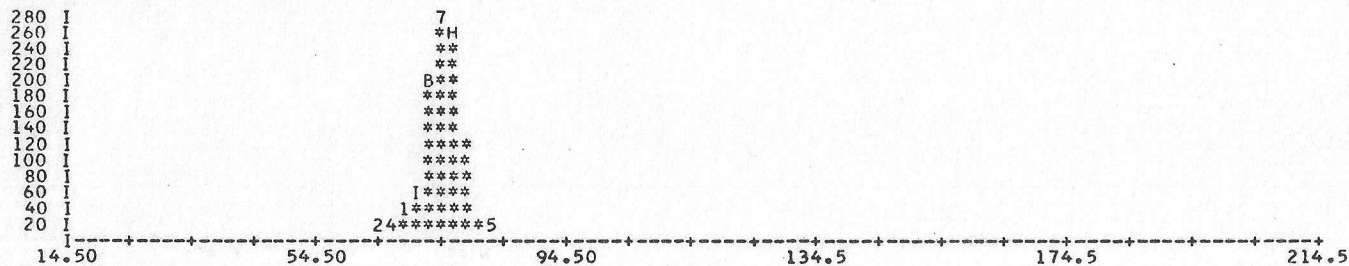
TYPE CORN5
NO. OF SAMPLES 945

LINES 669- 713 (BY 1)
COLUMNS 171- 191 (BY 1)

HISTOGRAM(S) FOR...FIELD 8-20

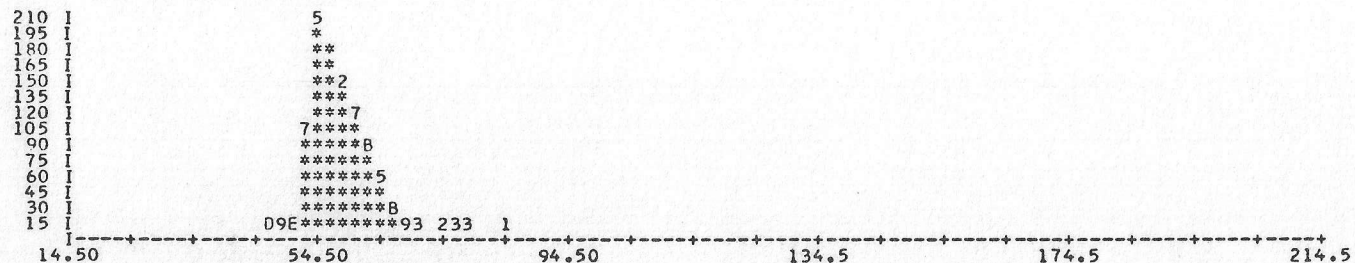
CHANNEL 1 0.40 - 0.44 MICROMETERS

EACH * REPRESENTS 20 POINT(S).



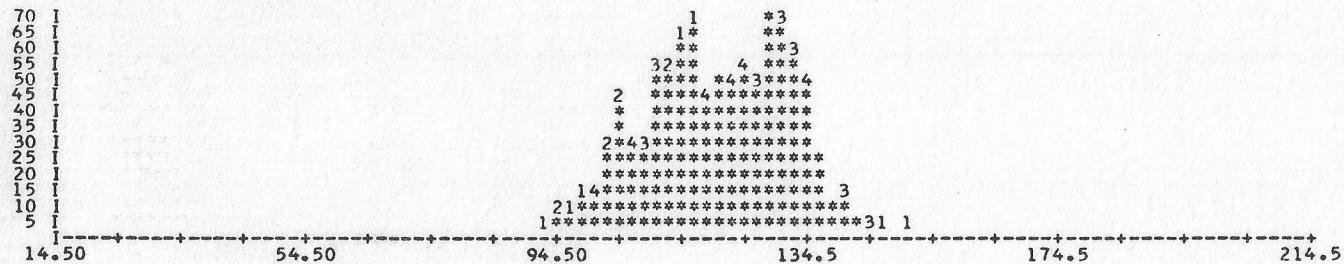
CHANNEL 9 0.62 - 0.66 MICROMETERS

EACH * REPRESENTS 15 POINT(S).



CHANNEL 11 0.72 - 0.80 MICROMETERS

EACH * REPRESENTS 5 POINT(S).

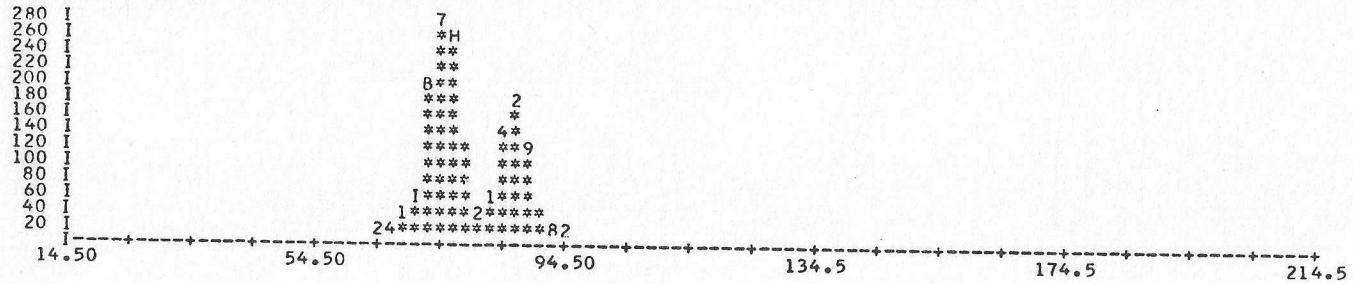


CLASS...CORN TOTAL NUMBER OF SAMPLES... 1428

HISTOGRAM(S)

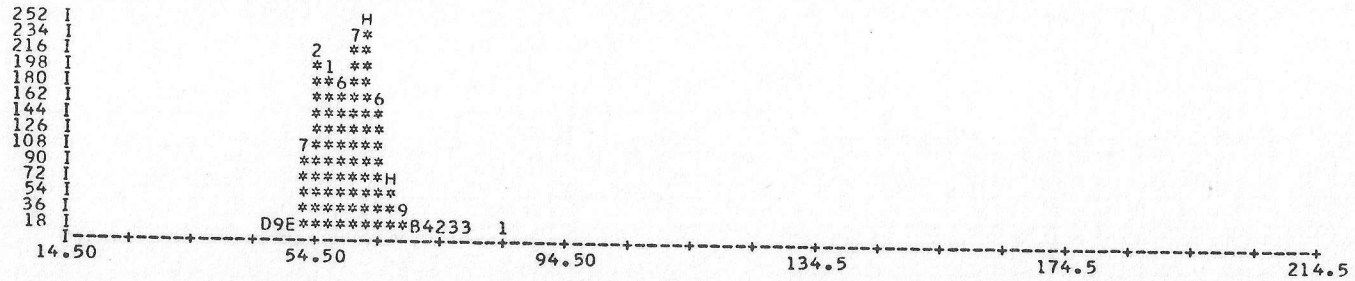
CHANNEL 1 0.40 - 0.44 MICROMETERS

EACH * REPRESENTS 20 POINT(S).



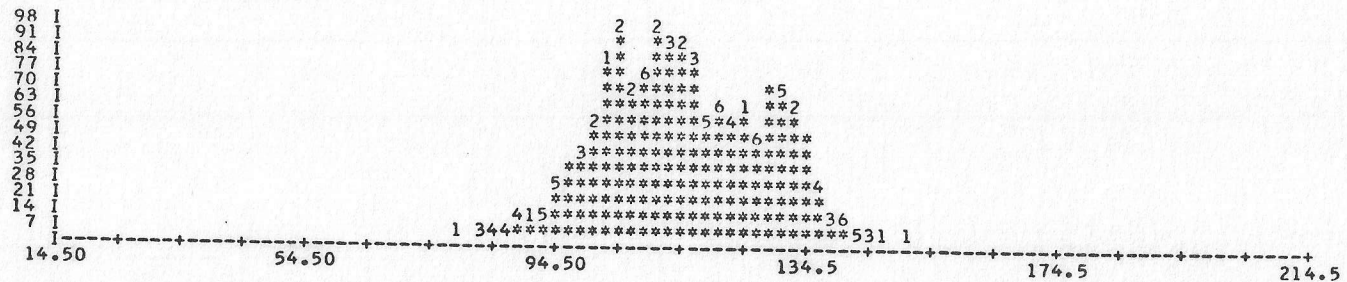
CHANNEL 9 0.62 - 0.66 MICROMETERS

EACH * REPRESENTS 18 POINT(S).



CHANNEL 11 0.72 - 0.80 MICROMETERS

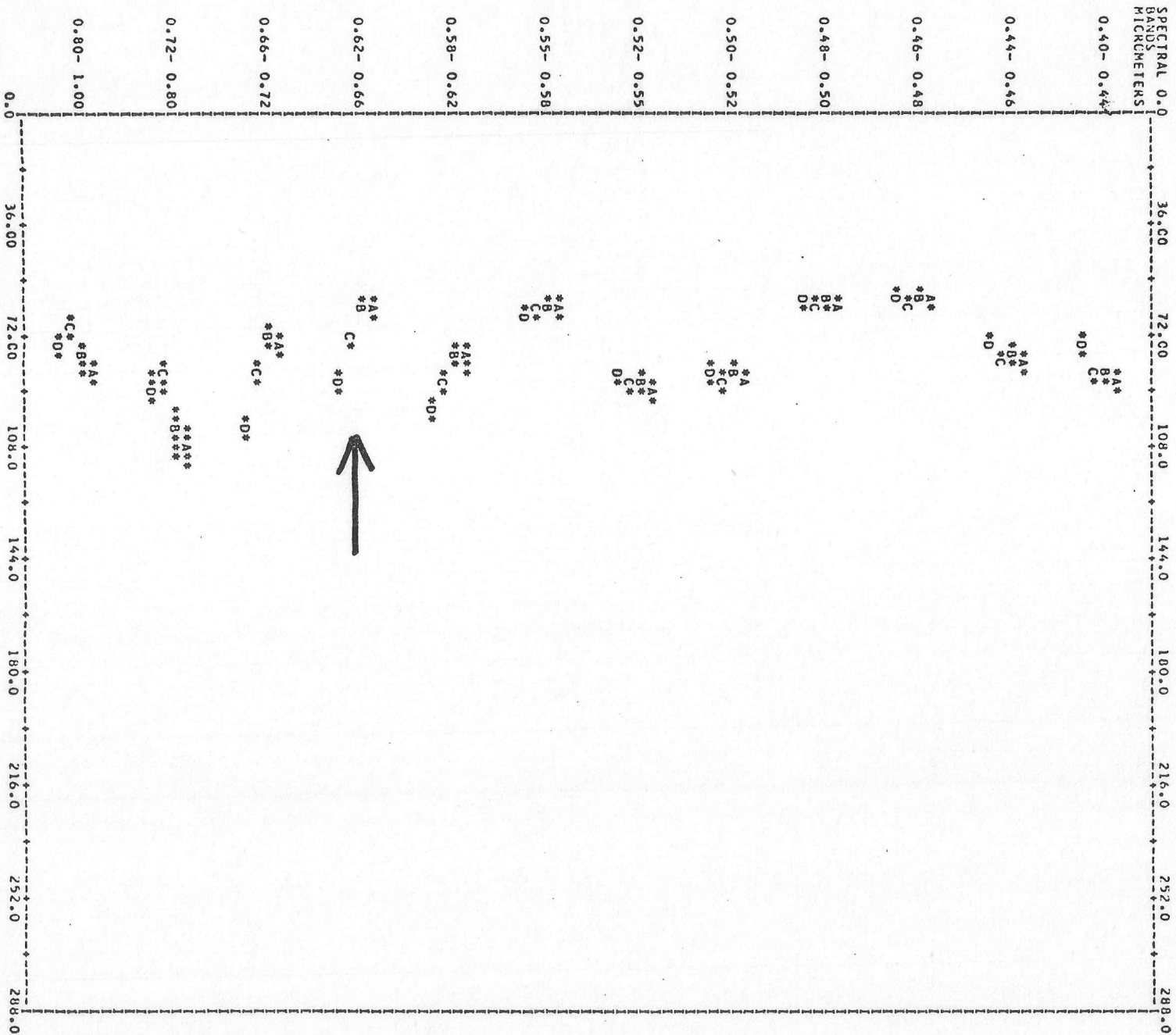
EACH * REPRESENTS 7 POINT(S).



LARSYS LABORATORY FOR APPLICATIONS OF REMOTE SENSING
 LARSYS DEMONSTRATION ** LARSYS
 PURDUE UNIVERSITY

COINCIDENT SPECTRAL PLOT (MEAN PLUS AND MINUS ONE STD. DEV.) FOR CLASSES)

LEGEND
 A = CLASS 1 CORN A
 B = CLASS 2 CORN B
 C = CLASS 3 SUIVEANS
 D = CLASS 4 WHEAT



LABORATORY FOR APPLICATIONS OF REMOTE SENSING
PURDUE UNIVERSITY

LARSYS DEMONSTRATION ** LARSYS

CLASSES CONSIDERED

SYMBOL	CLASS
S	SOYBEANS
C	CORN
O	OATS
W	WHEAT I
M	WHEAT II

FEATURES CONSIDERED

CHANNEL NO.	SPECTRAL BAND	
1	0.40	0.44
2	0.44	0.46
3	0.46	0.48
4	0.48	0.50
5	0.50	0.52
6	0.52	0.55
7	0.55	0.58
8	0.58	0.62
9	0.62	0.66
10	0.66	0.72
11	0.72	0.80
12	0.80	1.00

LABORATORY FOR APPLICATIONS OF REMOTE SENSING
PURDUE UNIVERSITY

LARSYS DEMONSTRATION ** LARSYS

RESTORED DATA
RETENTION LEVEL .. 495 MINIMUM C
MAXIMUM 30000

DIVERGENCE **WITH** SATURATING TRANSFORM

	FEATURES	DIJ(MIN)	D(AVG)	WEIGHTED INTERCLASS DIVERGENCE (DIJ)									
				SC (10)	SC (10)	SW (10)	SM (10)	CU (10)	CW (10)	CM (10)	DK (10)	GM (10)	WM (10)
1.	1 6 10 11	1767.	1975.	1767	1994	2000	2000	1999	2000	2000	1994	2000	1993
2.	1 6 10 12	1762.	1974.	1762	1993	2000	2000	1999	2000	2000	1993	2000	1997
3.	6 10 11 12	1773.	1974.	1773	1978	2000	2000	1998	2000	2000	1998	2000	1994
4.	4 6 10 12	1764.	1974.	1764	1985	2000	2000	1999	2000	2000	1993	1999	1996
5.	2 6 10 12	1760.	1973.	1760	1984	2000	2000	1999	2000	2000	1994	2000	1996
6.	2 6 10 11	1764.	1973.	1764	1984	2000	2000	1999	2000	2000	1995	2000	1991
7.	6 9 10 12	1774.	1973.	1774	1967	2000	2000	1998	2000	2000	1998	2000	1995
8.	4 6 10 11	1769.	1973.	1769	1984	2000	2000	1998	2000	2000	1994	1999	1988
9.	6 9 10 11	1779.	1973.	1779	1964	2000	2000	1998	2000	2000	1998	2000	1988
10.	6 8 10 12	1762.	1972.	1762	1969	2000	2000	1998	2000	2000	1997	2000	1997
11.	6 8 10 11	1768.	1972.	1768	1967	2000	2000	1998	2000	2000	1997	2000	1992
12.	3 6 10 12	1760.	1972.	1760	1973	2000	2000	1998	2000	2000	1994	1999	1995
13.	3 6 10 11	1758.	1972.	1758	1982	2000	2000	1998	2000	2000	1994	1999	1987
14.	5 6 10 11	1765.	1972.	1765	1974	2000	2000	1997	2000	2000	1995	1999	1987
15.	3 6 10 12	1750.	1971.	1750	1979	2000	2000	1998	2000	2000	1993	1999	1995
16.	6 7 10 12	1752.	1970.	1752	1963	2000	2000	1998	2000	2000	1993	1999	1998
17.	6 7 10 11	1758.	1970.	1758	1960	2000	2000	1997	2000	2000	1994	1999	1994
18.	1 7 10 11	1721.	1969.	1721	1991	2000	2000	1998	2000	2000	1993	2000	1982
19.	1 7 10 12	1716.	1968.	1716	1988	2000	2000	1998	2000	2000	1990	2000	1991
20.	1 6 9 10	1719.	1966.	1719	1968	2000	2000	1999	2000	2000	1984	1998	1992
21.	2 7 10 12	1707.	1965.	1707	1971	2000	2000	1996	2000	2000	1991	2000	1986
22.	2 7 10 11	1713.	1965.	1713	1972	2000	2000	1996	2000	2000	1993	2000	1973
23.	1 8 10 11	1698.	1964.	1698	1992	2000	2000	1997	2000	2000	1995	2000	1958
24.	1 8 10 12	1692.	1964.	1692	1987	2000	2000	1996	2000	2000	1992	2000	1971
25.	5 7 10 12	1700.	1963.	1700	1957	1999	2000	1994	2000	2000	1989	1999	1992
26.	5 7 10 11	1705.	1963.	1705	1959	2000	2000	1994	2000	2000	1991	1999	1982
27.	4 7 10 12	1680.	1962.	1680	1973	1998	2000	1995	2000	2000	1988	1999	1986
28.	4 7 10 11	1692.	1962.	1692	1971	1999	2000	1995	2000	2000	1991	1999	1970
29.	2 6 9 10	1716.	1962.	1716	1929	2000	2000	1998	2000	2000	1987	1998	1988
30.	1 5 10 12	1693.	1961.	1693	1987	2000	2000	1997	2000	2000	1990	2000	1943

LARSYS

LABORATORY FOR APPLICATIONS OF REMOTE SENSING
PURDUE UNIVERSITY

LARSYS DEMONSTRATION ** LARSYS

SERIAL NUMBER----- 42800001

CLASSIFIED-

JAN 18, 1972

CHANNELS USED

CHANNEL 1	SPECTRAL BAND	0.40 TO	0.44 MICROMETERS	CALIBRATION CODE = 1	CO = 31.00
CHANNEL 6	SPECTRAL BAND	0.52 TO	0.55 MICROMETERS	CALIBRATION CODE = 1	CO = 31.00
CHANNEL 10	SPECTRAL BAND	0.66 TO	0.72 MICROMETERS	CALIBRATION CODE = 1	CO = 31.00
CHANNEL 11	SPECTRAL BAND	0.72 TO	0.80 MICROMETERS	CALIBRATION CODE = 1	CO = 31.00

CLASSES

	CLASS	GROUP	THRES PCT		CLASS	GROUP	THRES PCT
1	SOYBEANS	SOYBEANS	0.5	6	ALFALFA	ALFALFA	0.5
2	CORN	CORN	0.5	7	RYE	RYE	0.5
3	OATS	OATS	0.5	8	BR SOIL	SOIL	0.5
4	WHEAT I	WHEAT	0.5	9	WHEAT II	WHEAT	0.5
5	RED CLVR	RED CLVR	0.5				

TEST FIELD PERFORMANCE

FIELD DESIG.	GROUP	NU OF SAMPS	PCT. CORCT	NUMBER OF SAMPLES CLASSIFIED INTO								SOIL	THRESHOLD
				SOYBEANS	CORN	OATS	WHEAT	RED CLVR	ALFALFA	RYE			
12-3	SOYBEANS	1034	65.7	679	0	5	2	0	0	2	0	344	
7-27	SOYBEANS	407	65.5	348	1	31	0	0	1	1	0	25	
12-7	SOYBEANS	513	97.1	498	3	10	0	0	0	0	0	2	
12-2	SOYBEANS	150	92.7	139	5	6	0	0	0	0	0	0	
12-3	SOYBEANS	752	94.9	714	3	0	0	0	0	0	0	0	
7-23	SOYBEANS	546	97.3	531	0	0	0	0	0	0	0	35	
12-9	CORN	588	96.4	10	567	0	0	0	0	0	15	0	
7-1	OATS	370	84.3	0	0	312	0	3	1	0	0	7	
7-2	WHEAT	260	95.4	0	0	12	248	58	0	0	0	0	
12-10	WHEAT	546	93.4	0	0	0	510	0	0	0	0	0	
12-8	RED CLVR	713	86.0	0	0	18	0	613	81	0	0	4	
7-29	RED CLVR	128	96.1	0	0	1	0	123	4	0	0	1	
7-28	RED CLVR	175	100.0	0	0	0	0	175	0	0	0	0	
	RED CLVR	385	92.2	0	15	4	0	355	6	0	0	0	
7-24	ALFALFA	190	94.7	0	0	3	0	7	180	0	0	5	
7-24	ALFALFA	266	90.2	1	8	11	0	4	240	0	0	0	
7-22	ALFALFA	114	85.1	0	0	2	0	12	97	0	0	2	
	TOTAL	7137		2920	602	415	760	1350	610	35	17	428	

OVERALL PERFORMANCE (6329/ 7137) = 88.7

LARSYS DEMONSTRATION ** LARSYS

SERIAL NUMBER----- 428000001

CLASSIFIED-

JAN 18, 1972

CHANNELS USED

CHANNEL 1	SPECTRAL BAND	0.40 TO	0.44 MICROMETERS	CALIBRATION CODE = 1	CO = 31.00
CHANNEL 6	SPECTRAL BAND	0.52 TO	0.55 MICROMETERS	CALIBRATION CODE = 1	CO = 31.00
CHANNEL 10	SPECTRAL BAND	0.66 TO	0.72 MICROMETERS	CALIBRATION CODE = 1	CO = 31.00
CHANNEL 11	SPECTRAL BAND	0.72 TO	0.80 MICROMETERS	CALIBRATION CODE = 1	CO = 31.00

CLASSES

	CLASS	GROUP	THRES	PCT		CLASS	GROUP	THRES	PCT
1	SOYBEANS	SOYBEANS	0.5		6	ALFALFA	ALFALFA	0.5	
2	CORN	CORN	0.5		7	RYE	RYE	0.5	
3	OATS	OATS	0.5		8	BR SOIL	SOIL	0.5	
4	WHEAT I	WHEAT	0.5		9	WHEAT II	WHEAT	0.5	
5	RED CLVR	RED CLVR	0.5						

TEST CLASS PERFORMANCE

GROUP	NO OF SAMPS	PCT. CORCT	NUMBER OF SAMPLES CLASSIFIED INTO								THRSHOLD	
			SOYBEANS	CORN	OATS	WHEAT	RED CLVR	ALFALFA	RYE	SOIL		
1	SOYBEANS	3402	85.5	2909	12	52	2	0	1	3	17	406
2	CORN	588	96.4	10	567	0	0	3	1	0	0	7
3	OATS	370	84.3	0	0	312	0	58	0	0	0	0
4	WHEAT	806	94.0	0	0	12	758	0	0	32	0	4
5	RED CLVR	1401	90.4	0	15	23	0	1266	91	0	0	6
6	ALFALFA	570	90.7	1	8	16	0	23	517	0	0	5
	TOTAL	7137		2920	602	415	760	1350	610	35	17	428

OVERALL PERFORMANCE (6329/ 7137) = 88.7

AVERAGE PERFORMANCE BY CLASS (541.4/ 6) = 90.2

A N S W E R S T O S E L F - C H E C K

(page 9 of Student Notes)

- A. Multispectral Image Storage Tapes contain:
1. Data Values
 2. Data Addresses
 3. Identification Information
 4. Calibration Information
- B. Types of Control Cards used in running LARSYS programs:
1. Initialization cards
 2. Function Selector cards
 3. Function Control cards
- C. Output of LARSYS Processing Functions:
- IDPRINT yields identification records
 - PICTUREPRINT provide a grayscale printout
 - COLUMNGRAPH provides a graph of data by column
 - LINEGRAPH yields a graph of data by line
 - CLUSTER can provide maps, statistics, and separability with histograms as an option
 - STATISTICS can provide histograms, spectral plots, mean and correlation matrices
as well as a statistics deck
 - SEPARABILITY indicates the statistical distances between class pairs
 - CLASSIFYPOINTS provides a classification file
 - PRINTRESULTS yields classification maps and performance tables