

PETIOLE GRAPH REPORT

FIELD: T-RECS FIELD
 ACRES: 34
 GROWER: F-SAMPLE GROWER
 SUBMITTED BY: SCC
 DELIVERED TO: F-SAMPLE GROWER
 DATE SUBMITTED: 1/16/2014
 DATE REPORTED: 1/17/2014
 CROP: SUGAR BEETS
 VARIETY: SUGAR BEETS

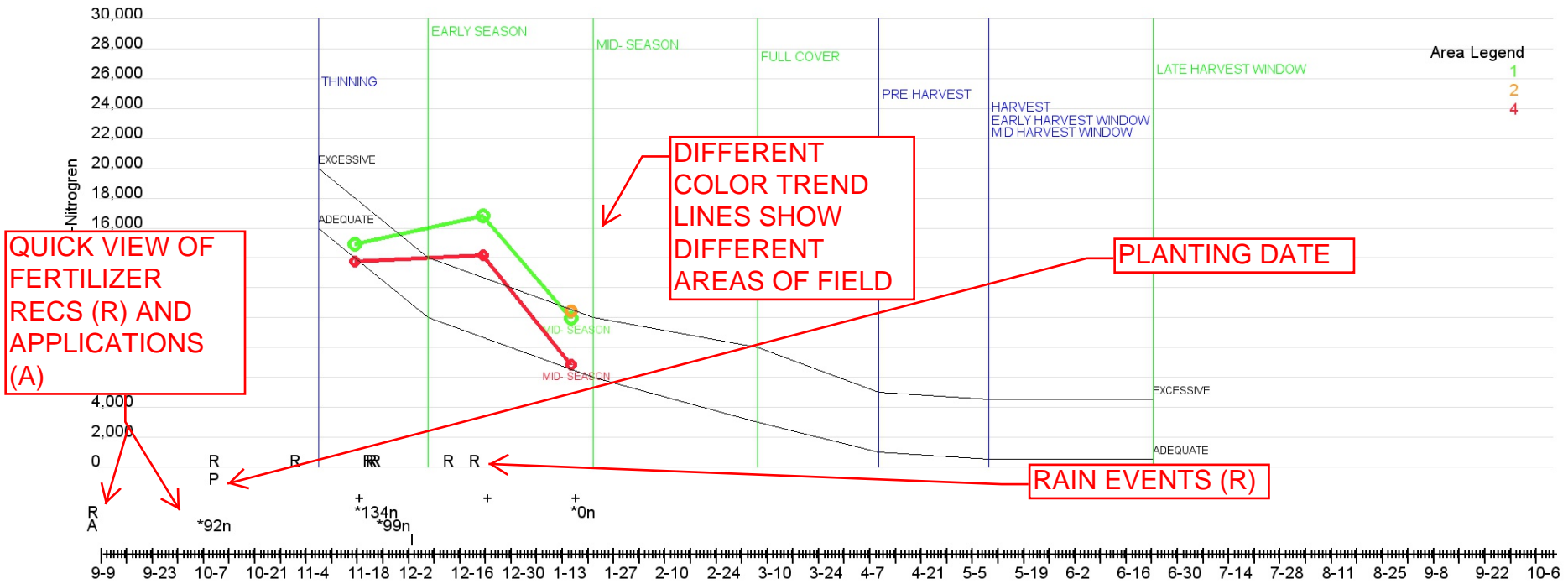
PREVIOUS CROP INFO

Prior Crop (2012)
 DURUM WHEAT
 DURUM WHEAT

NFTA CERTIFIED LAB
 ALP PARTICIPATING LAB
 NRCS PERFORMANCE ASSESSED
 LABORATORY (PAP)



SUGAR BEETS PETIOLE GRAPH: Nitrate

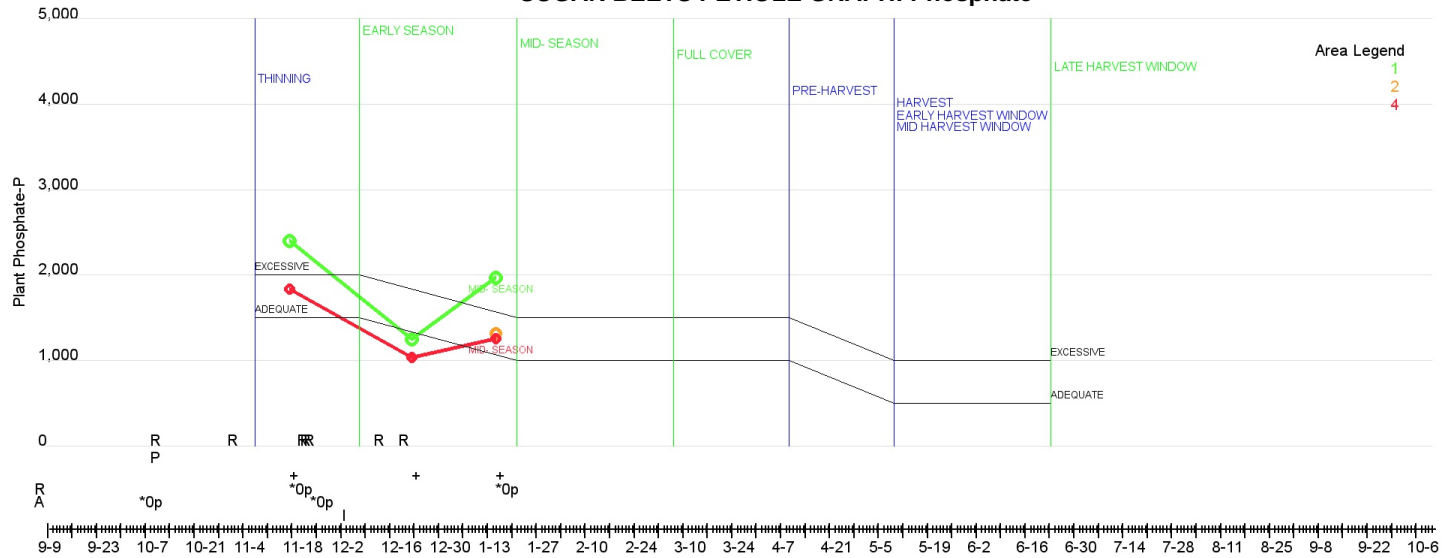


TIME (days) [/ = Comments * = Fertilizer I = Irrigation P = Planting R = Rain + = Sample]

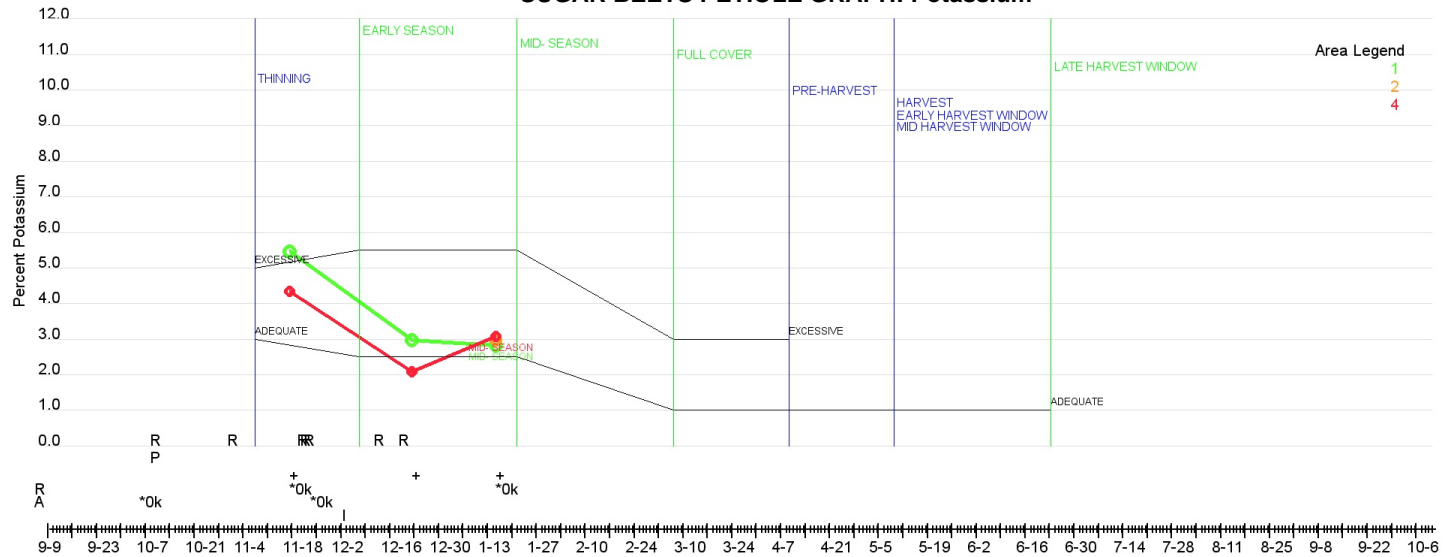
Current Recommendation (1/17/2014)

UPDATED RECOMMENDATION: WATER RUN 10 GALLONS UN-32/AC PLUS 5 LBS SOLUBOR/AC. K HAS RESPONDED. THIS WILL FULFILL THE N REQUIREMENT. RECHECK AFTER IRRIGATION.

SUGAR BEETS PETIOLE GRAPH: Phosphate



SUGAR BEETS PETIOLE GRAPH: Potassium



Current Recommendation (1/17/2014)

UPDATED RECOMMENDATION: WATER RUN 10 GALLONS UN-32/AC PLUS 5 LBS SOLUBOR/AC. K HAS RESPONDED. THIS WILL FULFILL THE N REQUIREMENT. RECHECK AFTER IRRIGATION.

Weekly Heat Units

Calipatria/Mulberry

Week	10-6	10-13	10-20	10-27	11-3	11-10	11-17	11-24	12-1	12-8	12-15	12-22	12-29	1-5	1-12
This Year	67	86	109	75	68	88	45	43	45	18	39	40	39	34	6
Total Since Planting	67	154	263	338	406	494	539	582	627	645	684	724	763	797	803
HU Per Day	10	11	13	12	12	12	11	10	10	9	9	9	8	8	8
Last Year	165	133	143	98	102	85	49	71	75	70	32	18	22	12	2
Hist. Avg (5yr)	125	129	126	94	92	69	63	51	47	37	29	17	23	32	5
Hist. Total	125	253	379	473	566	634	698	748	795	832	861	878	901	933	938
Hist. HU Per Day	18	18	18	17	16	15	14	13	13	12	11	10	10	10	9
Degree Days +/-	-3	-6	-6	-8	-10	-9	-11	-12	-13	-16	-16	-15	-14	-14	-15

LOCAL WEATHER SHOWING HEAT UNITS FROM NEARBY WEATHER STATION, DROP IS CURRENTLY 15 DAYS BEHIND NORMAL GROWTH.

LAB NUMBER	DATE	AREA	PETIOLE				LAB COMMENTS
			NO3-N ppm	PO4-P ppm	K %	N %	
method/uom		H2O Extract/ppm					
A7072	11/18/2013	1	14,935	2,400	5.46	-	early season
A7078	11/18/2013	4	13,769	1,834	4.35	-	early season
A7E07	12/23/2013	1	16,818	1,242	2.96	-	EARLY COVER
A7E08	12/23/2013	4	14,184	1,031	2.08	-	
A7O89	1/16/2014	1	9,935	1,967	2.83	-	
A7O90	1/16/2014	2	10,415	1,315	2.96	-	
A7O91	1/16/2014	4	6,832	1,251	3.07	-	
Optimum Ranges			-	-	-	-	
			-	-	-	-	

PREPLANT REC (R)

Sample	LAB NUMBER	DATE	PLANT				SOIL				FERTILIZER							
			AREA	NO3-N	PO4-P	%N	%K	NO3-N	PO4-P	Sp	K	ECe	Zn	A/R	N	P2O5	K2O	Cost
		PPM		PPM			PPM	PPM		PPM							\$/Acre	
A5C47	8/8/2013	1	-	-	-	-	16	42	70.20	285	1.46	2.72		-	-	-	-	
A5C48		4	-	-	-	-	13	17	64.80	215	7.26	1.31		-	-	-	-	
BROADCAST 200 LBS UREA/AC AND DISK IN PRIOR TO LISTING. RECHECK SOIL TO 4 FEET DEEP AND TISSUE PRIOR TO SIDE DRESS.																		
			UREA											R	92	-	-	60.25
	10/6/2013		UREA											A	92	-	-	53.10
A7072	11/18/2013	1	14,935	2,400	-	5.46	-	-	-	-	-	-	-	-	-	-	-	
A7078		4	13,769	1,834	-	4.35	-	-	-	-	-	-	-	-	-	-	-	

Sample		PLANT					SOIL						FERTILIZER					
LAB NUMBER	DATE	AREA	NO3-N	PO4-P	%N	%K	NO3-N	PO4-P	Sp	K	ECe	Zn	A/R	N	P2O5	K2O	Cost	
			PPM	PPM			PPM	PPM		PPM							\$/Acre	
A7074		1-1	-	-	-	-	15	-	-	-	-	-					-	
A7075		1-2	-	-	-	-	12	-	-	-	-	-					-	
A7076		1-3	-	-	-	-	11	-	-	-	-	-					-	
A7077		1-4	-	-	-	-	8	-	-	-	-	-					-	
A7079		4-1	-	-	-	-	5	-	-	-	-	-					-	
A7080		4-2	-	-	-	-	5	-	-	-	-	-					-	
A7082		4-3	-	-	-	-	6	-	-	-	-	-					-	
A7084		4-4	-	-	-	-	4	-	-	-	-	-					-	
		UN-32 default											R	134	-	-	88.83	
	11/19/2013	SOIL RESULTS AND RECS WILL FOLLOW TOMORROW. THANKS AQ																
	11/20/2013	Side dress 28 ga/ac un-32 and irrigate back. Then, water run 10 gallons un-32/ac in the next irrigation. This recommendation is based upon residual soil N to 4 foot depth, an estimated yield of 40 tons/ac and an estimated dig date of mid-May. Recheck petiole after irrigation. Note based upon heat units, this crop is 11 days behind normal(see table page 4).																
	11/24/2013	UN-32 default											A	99	-	-	62.11	
A7E07	12/23/2013	1	16,818	1,242	-	2.96	-	-	-	-	-	-	-	-	-	-	-	
A7E08		4	14,184	1,031	-	2.08	-	-	-	-	-	-	-	-	-	-	-	
	12/24/2013	WATER RUN 10 GALLONS UN-32/AC. THIS WILL FULFILL THE N REQUIREMENT BASED UPON THE PSSNT. K IS ADEQUATE IN THE LEAF ANALYSIS. RECHECK AFTER IRRIGATION.																
A7O89	1/16/2014	1	9,935	1,967	-	2.83	-	-	-	-	-	-	-	-	-	-	-	
A7O90		2	10,415	1,315	-	2.96	-	-	-	-	-	-	-	-	-	-	-	
A7O91		4	6,832	1,251	-	3.07	-	-	-	-	-	-	-	-	-	-	-	
		SOLUBOR											R	-	-	-	5.00	
	1/17/2014	UPDATED RECOMMENDATION: WATER RUN 10 GALLONS UN-32/AC PLUS 5 LBS SOLUBOR/AC. K HAS RESPONDED. THIS WILL FULFILL THE N REQUIREMENT. RECHECK AFTER IRRIGATION.																
													Total Applied Fertilizer		191	-	-	115.21
													Total Recommended Fertilizer		226	-	-	154.08

DEEP SOIL SAMLES TO 4 FEET PSSNT (PRE-SIDE DRESS SOIL NITRATE TEST)

TALLEY OF RECOMMENDED/ APPLIED FERTILIZER WITH CALCULATED COSTS