

Westside Alfalfa Salinity Trial (planted 3/29/17 Five Points, CA). 2017-2020 Cumulative Yield of alfalfa grown under low and high saline conditions.

Variety	2017 Season Yield (ton/A)		2018 Season Yield (ton/A)		2019 Season Yield (ton/A)		2020 Season Yield (ton/A)		Cumulative Average (t/A)	
	Low Salinity	High Salinity	Low Salinity	High Salinity	Low Salinity	High Salinity	Low Salinity	High Salinity	Low Salinity	High Salinity
UC Salton	5.2	5.2	12.0	12.2	15.0	13.4	13.8	13.2	46.0	44.0
SW9573	5.5	5.1	12.0	11.3	14.4	13.3	15.0	13.0	47.0	42.7
SW9106M	4.7	5.5	12.9	10.4	15.2	13.2	16.4	11.3	49.2	40.4
AZ-88NDC	6.0	4.7	13.7	10.9	14.4	13.0	14.6	11.6	48.6	40.4
9R100	5.5	5.0	14.6	11.1	16.0	12.5	16.3	11.4	52.4	40.0
Integra 8810S	4.9	4.6	12.9	11.3	15.6	12.3	16.0	11.6	49.5	39.8
UC Impalo	4.5	4.9	12.7	9.9	15.4	12.3	15.2	12.5	47.8	39.6
PGI 908-S	5.4	5.0	14.3	9.8	15.9	13.0	17.1	11.6	52.7	39.3
SW8421RRS	5.0	5.5	13.5	11.3	16.2	11.7	17.3	10.7	52.0	39.2
CUF101	4.9	4.6	12.9	10.4	13.7	12.6	13.1	11.6	44.6	39.2
H0916ST223	4.5	4.9	10.8	10.5	13.8	12.8	12.3	10.8	41.4	38.9
SW9577	5.2	5.0	13.7	10.2	14.8	12.4	14.3	10.3	48.1	38.0
C0916ST232	5.3	4.8	12.9	10.7	13.4	11.8	13.9	9.9	45.5	37.1
SW9215RRS	4.8	5.2	13.3	10.1	15.8	11.5	15.9	10.0	49.8	36.8
R814W258S	4.8	4.7	11.8	9.1	15.0	11.9	16.1	10.9	47.8	36.6
SW8476	4.5	4.8	13.1	9.1	15.4	11.5	16.7	11.3	49.8	36.6
H0715ST209	4.5	5.0	10.2	10.4	12.5	10.8	14.5	9.5	41.7	35.7
AZ-90NDC-ST	4.8	4.4	12.5	9.3	14.8	11.6	15.5	10.1	47.6	35.5
R914W259S	4.2	4.5	11.5	9.0	15.4	11.3	15.6	10.1	46.6	34.9
R814W257S	5.2	4.6	13.7	9.4	16.1	12.0	16.4	8.7	51.5	34.7
SW8409	4.9	5.0	11.7	9.0	13.8	11.0	15.2	9.6	45.7	34.5
H0916ST218	4.9	4.9	12.1	9.4	14.2	11.2	13.5	9.0	44.6	34.5
SW8412	4.9	3.7	12.3	8.4	13.3	10.0	14.4	11.8	45.0	33.9
H0716ST227	4.2	4.4	10.6	9.0	12.4	10.5	12.9	9.6	40.1	33.5
FGR814W275	3.5	3.6	10.5	9.2	14.0	10.9	13.0	9.8	41.1	33.5
H0916ST216	4.5	3.7	11.5	8.5	12.6	11.4	12.9	9.7	41.4	33.3
SW9576	4.9	4.6	11.5	9.5	11.4	9.9	12.3	8.9	40.1	32.8
H0915ST214	4.3	4.0	11.3	8.9	15.5	11.5	16.1	8.3	47.2	32.8
AFX149092	4.7	4.0	13.5	8.3	14.1	11.1	14.7	8.7	47.0	32.1
H0915ST212	4.8	3.9	11.1	8.4	13.8	10.1	14.2	9.6	43.9	32.1
H0815ST210	4.7	4.0	11.8	8.4	14.3	10.5	15.7	8.7	46.5	31.8
H0916ST217	4.0	4.2	10.4	8.6	12.4	9.9	12.3	8.7	39.0	31.4
H0716ST222	4.9	4.3	12.9	7.9	14.0	10.7	12.0	8.1	43.8	31.0
H0715ST211	5.0	4.0	11.5	8.6	13.2	10.2	14.0	7.7	43.7	30.5
Average	4.8	4.6	12.3	9.6	14.4	11.5	14.7	10.2	46.1	36.1
Yield loss	4%		22%		20%		31%		22%	
Treatment Mean	4.7		11.0		13.0		13.0		41.1	
CV%	16.3		16.5		12.8		20.5		10.0	
LSD (p=0.05)	0.2		1.8		1.6		0.6		1.0	