

USU DRYLAND SAFFLOWER VARIETY TRIALS IN NORTHERN UTAH

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2009 Dryland Safflower Variety Trial

- Planted May 7
- Seeding rate 12 lbs PLS/A
- 3 rows on 12 inch row centers
- 5' x 15'
- 4 replications
- 18 varieties
- 60 units of 16-16-8
- No herbicides



June 10, 2009



August 12, 2009



Harvested: October 22, 2009





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Dryland Variety Trial 2009–Blue Creek

Variety	Seed		Oil		Gross
	Production lb DM/ac	Color Score	Content %	Lbs of Oil	Income /acre*
CAL/WEST CW 1221	1489	4	42.5	632.8	\$ 253
SEED TEC 3151	1393	4	40.4	562.8	\$ 237
MSO S-541	1378	3	41.2	567.7	\$ 234
SEED TEC S-719	1347	2	40.3	542.8	\$ 229
STI MT7446	1344	2	38.4	516.1	\$ 228
SEED TEC 5241	1315	1	38.6	507.6	\$ 224
CAL/WEST CW 880L	1293	3	41.5	536.6	\$ 220
STI 90	1285	3	34.8	447.2	\$ 218
STI 01	1282	3	37.5	480.8	\$ 218
SEED TEC 3125	1275	5	42.0	535.5	\$ 217
S-208 	1258	1	39.3	494.4	\$ 214
CAL/WEST CW 990L	1254	3	41.8	524.2	\$ 213
SEED TEC S-333	1237	1	40.8	504.7	\$ 210
SEED TEC 4409	1178	2	40.1	472.4	\$ 200
STI MT3538	1165	1	36.3	422.9	\$ 198
SEED TEC 7313	1163	2	38.6	448.9	\$ 198
SEED TEC 2106	1158	1	42.1	487.5	\$ 197
STI 50	1049	10	44.8	470.0	\$ 178
Mean	1270	2.8	40.1	508.6	216

.17¢/lb

2010 Dryland Safflower Variety Trial

- ❑ Planted May 4
- ❑ Seeding Rate 12 lbs PLS/A
- ❑ 3 rows on 12 inch centers
- ❑ 5 ft X 15 ft
- ❑ 4 replications
- ❑ 15 varieties
- ❑ 40 units of N
- ❑ No herbicides applied
- ❑ Fallow previous year



June 1, 2010



Mid June , 2010







Late September, 2010

Harvest September 29, 2010



Table 1. 2010 Dryland Safflower Variety Trial at Blue Creek, Utah (Box Elder Co.).

GPS 41°56'08.94" N 112°26'18.62" W

Planting Rate 12 lbs PLS/A, Planted 5/4/10, Harvested 9/29/10.


Soil Type: Timpanogos Silt Loam. Elevation 5138 ft.

Applications 40 units of N, No herbicides were applied.

Previous crop: Fallow.

Variety	Seed Production lb DM/ac	Color Score	Oil Content %	Lbs of Oil	Gross Income /acre*
CAL/WEST SEEDS CW 3268	951	2	41.5	394.7	\$ 133
CAL/WEST SEEDS CW 1221	945	5	42.3	399.7	\$ 132
CAL/WEST SEEDS CW 880L	918	5	41.7	382.8	\$ 129
SAFFLOWER TECH STI 01	900	4	38.2	343.8	\$ 126
SEED TEC 5255	890	3	37.7	335.5	\$ 125
SEED TEC S-333	878	1	42.1	369.6	\$ 123
SAFFLOWER TECH STI 50	868	10	46.1	400.1	\$ 122
CAL/WEST SEEDS CW 990L	865	6	40.7	352.1	\$ 121
SEED TEC 4439	844	2	38.4	324.1	\$ 118
S-208	832	1	39.6	329.5	\$ 116
SAFFLOWER TECH STI 90	830	4	34.2	283.9	\$ 116
SEED TEC 5241	828	1	38.0	314.6	\$ 116
SAFFLOWER TECH MT 3538	773	1	36.4	281.4	\$ 108
SAFFLOWER TECH MT 7446	735	2	38.2	280.8	\$ 103
SEED TEC S-719	691	3	40.0	276.4	\$ 97
Mean	850	3.3	39.7	337.9	\$ 119



Variety	Production Year				Average
	2007	2008	2009	2010	
	~~~~~ Lbs. DM/ac ~~~~~				
SeedTec S-719	498	923	1347	691	865
S-208	460	885	1258	832	859
SeedTec 5241		1117	1315	828	1087
SeedTec S-333		1047	1237	878	1054
Cal/West CW 880L		919	1293	918	1043
Cal/West CW 990L		948	1254	865	1022
Montana 7446		871	1344	735	983
Montana 3538		905	1165	773	948
Hybrid 16	485	1182	1282		983
SeedTec 3151	484	982	1393		953
Hybrid 9049	503	988	1285		925
SeedTec 2106	432	861	1158		817
SeedTec 4409	400	840	1178		806
Cal/West CW 1221 			1489	945	1217
STI 50			1049	868	959
Hybrid 90		1053		830	942
Cal/West CW 3268				951	951
SeedTec 5255				890	890
SeedTec 4439				844	844
Montana 7446				735	735



# DORMANT SEEDING 2009

Planted December 1

Seeding rate 12 lbs PLS/A

3 rows on 12 inch centers

5 ft X 15 ft

4 replications

4 varieties

40 units N

No herbicides



# Early Spring Weeds





Early Summer

# Mid-August



# Harvest September 29, 2010



**Table 1. 2009 Dormant Seeded Dryland Safflower Variety Trial at Blue Creek, Utah (Box Elder Co.).**

GPS 41°58'08.94" N 112°26'18.62" W

Planting Rate 12 lbs PLS/A, Planted 12/1/09, Harvested 9/29/10.

Soil Type: Timpanogos Silt Loam. Elevation 5138 ft.

Applications 40 units of N, No herbicides were applied.

Previous crop: Fallow.

Variety	Seed Production lb DM/ac	Color Score	Oil Content %	Lbs of Oil	Gross Income /acre*
S-208	960	1	39.1	375.4	\$ 134
PI 651879	811	3	26.2	212.5	\$ 114
PI 651878	793	2	26.2	207.8	\$ 111
PI 651880	771	2	25.8	198.9	\$ 108
<b>Mean</b>	<b>834</b>	<b>2.0</b>	<b>29.3</b>	<b>248.6</b>	<b>\$ 117</b>

* Gross income is figured on seed production at 14¢ per lb. Crop inputs (fertilizer, pesticides, equipment costs), color score, test weight and oil content were not figured into the gross income figure.



Questions