

| TABLE 1 | Westside Alfalfa Salinity Trial yields | | | | | | |
|---------------------|--|----------------------|---------------------------|----------------------|----------------------------|----------------------|----------------|
| | 2017 season yield (ton/A) | | 2018 season yield (ton/A) | | Cumulative average (ton/A) | | Relative yield |
| Variety | Low salinity | High salinity | Low salinity | High salinity | Low salinity | High salinity | % |
| UC Salton | 5.2 | 5.2 | 12.0 | 12.2 | 17.2 | 17.4 | 100.9% |
| SW8421RRS | 5.0 | 5.5 | 13.5 | 11.3 | 18.5 | 16.8 | 90.8% |
| SW9573 | 5.5 | 5.1 | 12.0 | 11.3 | 17.6 | 16.5 | 93.6% |
| 9R100 | 5.5 | 5.0 | 14.6 | 11.1 | 20.1 | 16.2 | 80.6% |
| SW9106M | 4.7 | 5.5 | 12.9 | 10.4 | 17.6 | 15.9 | 90.5% |
| Integra 8810S | 4.9 | 4.6 | 12.9 | 11.3 | 17.8 | 15.9 | 89.2% |
| AZ-88NDC | 6.0 | 4.7 | 13.7 | 10.9 | 19.7 | 15.7 | 79.7% |
| C0916ST232 | 5.3 | 4.8 | 12.9 | 10.7 | 18.3 | 15.5 | 84.7% |
| H0715ST209 | 4.5 | 5.0 | 10.2 | 10.4 | 14.8 | 15.4 | 104.2% |
| H0916ST223 | 4.5 | 4.9 | 10.8 | 10.5 | 15.4 | 15.4 | 100.0% |
| SW9215RRS | 4.8 | 5.2 | 13.3 | 10.1 | 18.1 | 15.3 | 84.4% |
| SW9577 | 5.2 | 5.0 | 13.7 | 10.2 | 18.9 | 15.2 | 80.5% |
| CUF101 | 4.9 | 4.6 | 12.9 | 10.4 | 17.7 | 15.0 | 84.7% |
| UC Impalo | 4.5 | 4.9 | 12.7 | 9.9 | 17.2 | 14.8 | 85.8% |
| PGI 908-S | 5.4 | 5.0 | 14.3 | 9.8 | 19.8 | 14.8 | 74.8% |
| H0916ST218 | 4.9 | 4.9 | 12.1 | 9.4 | 16.9 | 14.4 | 84.8% |
| SW9576 | 4.9 | 4.6 | 11.5 | 9.5 | 16.4 | 14.1 | 86.0% |
| R814W257S | 5.2 | 4.6 | 13.7 | 9.4 | 19.0 | 14.0 | 74.0% |
| SW8409 | 4.9 | 5.0 | 11.7 | 9.0 | 16.7 | 13.9 | 83.7% |
| SW8476 | 4.5 | 4.8 | 13.1 | 9.1 | 17.7 | 13.9 | 78.7% |
| R814W258S | 4.8 | 4.7 | 11.8 | 9.1 | 16.6 | 13.8 | 83.2% |
| AZ-90NDC-ST | 4.8 | 4.4 | 12.5 | 9.3 | 17.3 | 13.8 | 79.9% |
| R914W259S | 4.2 | 4.5 | 11.5 | 9.0 | 15.7 | 13.5 | 86.1% |
| H0716ST227 | 4.2 | 4.4 | 10.6 | 9.0 | 14.9 | 13.4 | 90.2% |
| H0915ST214 | 4.3 | 4.0 | 11.3 | 8.9 | 15.6 | 13.0 | 83.0% |
| H0916ST217 | 4.0 | 4.2 | 10.4 | 8.6 | 14.3 | 12.8 | 89.4% |
| FGR814W275 | 3.5 | 3.6 | 10.5 | 9.2 | 14.0 | 12.8 | 91.1% |
| H0715ST211 | 5.0 | 4.0 | 11.5 | 8.6 | 16.5 | 12.6 | 76.4% |
| H0815ST210 | 4.7 | 4.0 | 11.8 | 8.4 | 16.5 | 12.5 | 75.7% |
| H0915ST212 | 4.8 | 3.9 | 11.1 | 8.4 | 15.9 | 12.3 | 77.3% |
| AFX149092 | 4.7 | 4.0 | 13.5 | 8.3 | 18.2 | 12.3 | 67.5% |
| H0716ST222 | 4.9 | 4.3 | 12.9 | 7.9 | 17.8 | 12.2 | 68.9% |
| H0916ST216 | 4.5 | 3.7 | 11.5 | 8.5 | 15.9 | 12.2 | 76.7% |
| SW8412 | 4.9 | 3.7 | 12.3 | 8.4 | 17.2 | 12.1 | 70.2% |
| Salado* | 4.4 | 3.2 | 13.3 | 8.1 | 17.7 | 11.3 | 64.2% |
| Average | 4.8 | 4.6 | 12.3 | 9.6 | 17.1 | 14.2 | 82.9% |
| Yield loss | | 4% | | 22% | | 17% | |
| CV% | | 16.30% | | 16.50 | | | |
| LSD (p=0.05) | | 0.18 | | 1.80 | | | |
| treatment | | * | | ** | | | |
| variety | | *** | | *** | | | |
| treatment X variety | | ns | | ns | | | |

Varieties were grown under low- (EC_w of 1.0 to 1.3 dS/m) and high-saline (EC_w of 7.0 to 10.5 dS/m) conditions utilizing saline well water with added NaCl and CaCl. Relative yields (HS as a percent of LS) are shown. (Trial planted 3/29/17 at the University of California West Side Research and Extension Center, Five Points, California).