

Site Name	County	Nearest town	Tests	Latitude	Longitude	Soil Type	Previous Crop	Planting Date	Fertilizer Management	Irrigation	Rainfall (inches, 10/1/2016-6/30/2017)
Colusa	Colusa	Grimes	Wheat	39.041039	-121.848620	Grandbend loam	safflower	11/10/2016	166lbs N (124#N preplant, 32#N top dress)	No irrigation	22.0
Davis	Yolo	Davis	Wheat, Durum, Barley	38.527290	-121.772354	Yolo loam/Yolo silt clay loam	corn	11/15/2016	Wheat 200lb N (50#N preplant, 150#N topdress) Barley 75lbs N topdress.	No irrigation	31.0
Davis_Low_N	Yolo	Davis	Wheat	38.527290	-121.772354	Yolo loam/Yolo silt clay loam	corn	11/17/2016	No fertilizer	No irrigation	31.0
Delta	San Joaquin	Delta	Wheat	38.146515	-121.532635	Ryde clay loam/Rindge muck	potatoes	11/18/2016	50lb N preplant	No irrigation	37.5
Fresno	Fresno	Five Points	Wheat, Durum	36.339803	-120.119236	Panoche clay loam	barley	12/1/2016	200lb N (50#N preplant, 150#N top dress)	Two as sprinkler 3.5", two as furrow 7"	9.0
Fresno_Low_N	Fresno	Five Points	Wheat	36.339803	-120.119236	Panoche clay loam	sudan grass	11/30/2016	100lb N (50#N preplant, 50#N top dress)	Two as sprinkler 3.5", two as furrow 7"	9.0
Fresno_Low_Water	Fresno	Five Points	Wheat, Barley	36.339803	-120.119236	Panoche clay loam	barley	11/30/2016	Wheat 150 lb N (50#N preplant, 100#N top dress) Barley 100 lb N (50#N preplant, 50#N top dress)	One as sprinkler 1", two as furrow 5.8"	9.0
Imperial	Imperial	Meloland	Wheat, Durum	32.810970	-115.443706	Imperial silty clay	sudan grass	12/9/2016	250lb N (50#N preplant, 200#N as three applications, water run)	Five as flood 28.3"	1.5
Kern	Kern	Buttonwillow	Wheat, Durum	35.377050	-119.332460	Wasco sandy loam	cotton	11/21/2016	125lb N (75#N preplant as UAN32 50#N water run)	Three as flood 19.7"	6.5
Kings	Kings	Corcoran	Wheat, Durum	36.000538	-119.565334	Gepford clay		11/29/2016	Organic compost preplant. Total N approx. 160lb	Irrigated to crop need	7.0
Solano_RF	Solano	Rio Vista	Wheat, Barley	38.140152	-121.737871	Diablo-Ayar clays	fallow	11/16/2016	170lb N (50#N preplant 120#N top dress) 100lb N (50#N preplant 50#N top dress)	No irrigation	15.7
Tulare_RF	Tulare	Ducor	Wheat, Barley	35.815010	-119.055200	Centerville clay	fallow	11/29/2016	8lb N preplant as 11-52-0	No irrigation	8.0

The 2016-17 season was characterized by above average annual rainfall for many of the trial locations, notably in the northern Central Valley. Some locations had received two to three times average rainfall by March. This likely contributed to high average yields, but also resulted in waterlogging, heavier-than-normal weed growth, and greater disease pressure, in some cases. A summary of the seasonal conditions for the individual locations is provided below:

Location	Seasonal summary
Colusa	The Colusa County location would typically have received supplemental irrigation, but was entirely rain-fed, although total seasonal rainfall was close to average. Some late-season lodging appears to have been caused by moist soil conditions late in the season.
Davis, Davis_Low_N	Similarly, the Yolo County location would also have received supplemental irrigation, but received nearly 170 % of the long-term average rainfall. Despite the high rainfall, no obvious problems from waterlogging or excessive weed growth were observed at this location.
Delta	The Delta received the highest rainfall of all the test locations. There was standing water in large areas of the field for prolonged periods early in the season. Stand losses and growth-suppression from this led to very heavy late-season weed pressure and resulted in low mean yields.
Fresno, Fresno_Low_N, Fresno_Low_Water	Approximately normal weather conditions were experienced at the Fresno County location. Site conditions were generally good, although some late season lodging was experienced due to unexpectedly high winds following a late-season irrigation. Some problems were encountered from volunteer barley in the common wheat and durum trials.
Imperial	When considering irrigation and fertilization, yields of Common and Durum wheat at the Imperial County location were low in comparison to other locations. In contrast to other locations, multiple days with temperatures in excess of 90 F were experienced at the location following heading, which is likely to have reduced yields.
Kern	The Kern County location received average rainfall and irrigation amounts. Warm and moist conditions early in the season appear to have resulted in notably heavy disease pressure, notably from rust and mildew. Despite this, early- and mid-season vegetative growth was excellent and yields of both common and durum wheat were high.
Kings	Yields at the Kings County location were moderate relative to other locations. Total flood irrigation amounts were not

	recorded by the grower, but are believed to have been in excess of crop requirements. The field received a pre-plant application of compost, made from a blend of plant material and animal manure, with no additional in-season fertilization. Some minor early-season weed growth and late-season lodging was observed.
Solano_RF	Favorable conditions due to above average temperatures and rainfall were experienced at the Solano County rain-fed location, although heavy late-season weed pressure was experienced in some places in the field.
Tulare_RF	Rainfall at the Tulare County rain-fed location was close to average, although total amounts were low relative to other locations.