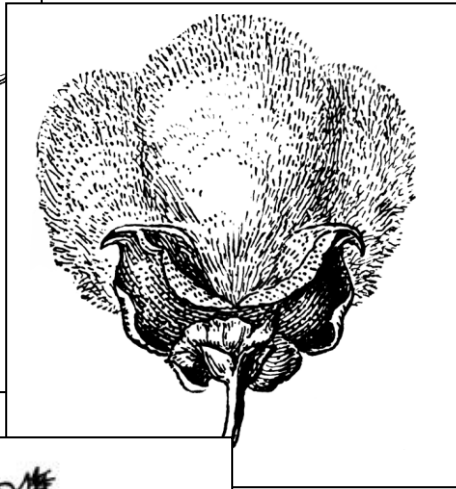


KERN DELTA WATER DISTRICT

Crop Report, 2018 Growing Season



April 09, 2019

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Crop Production, 2018

General Crop Trend, 2018

Crop Map, 2018

APPENDICES

Appendix A, Crop Summary by Acreage

Appendix B, Crop Summary by Township and Range

1.0 SUMMARY

Within Kern Delta Water District's boundaries, approximately 146,351 acres of land were cultivated (multiple cropping included) during the 2018 growing season.

The season's top produced commodity was wheat, with approximately 32,209 acres being cropped, followed by almonds, and corn, with 19,135 and 17,577 acres being cropped respectively. Table 1 shows selected crops and their accompanying growth trend.

TABLE 1
Selection Crops – 2018
& Accompanying Growth Trend

CROP	2018	2017	2016	2015	2014	2013	2012
Total Cropped Acres	146,351	140,042	141,061	145,000	141,300	122,154	141,937
Alfalfa	14,933	12,860	19,937	23,172	23,817	24,249	29,429
Corn Feed	17,577 (50,934) ¹	16,210	47,077 ²	62,254 ²	67,572 ²	57,911 ²	54,845 ²
Vegetables	22,323	30,014	18,278	18,239	16,914	11,329	15,722
Cotton	7,033	8,578	8,490	6,062	10,986	11,044	12,626
Trees	29,425	25,025	24,120	18,329	10,685	6,958	5,598
Vines	5,766	8,140	6,586	6,478	6,025	5,899	5,687

2.0 CROPS

Approximately 81 crop varieties were grown throughout the District in 2018 (see **Appendix A** and **Appendix B** for individual crop types, locations, and acreages). The major produced commodities are briefly discussed in the following sections.

2.1 Wheat

Wheat continues to be a major crop grown within the District, with approximately 32,209 acres being cropped. The crop was fairly evenly spread throughout, from the northwest to the southeast.

¹ All values have been rounded. The value in parenthesis represents corn, oats, and wheat.

² Value includes corn, oats, and wheat to demonstrate a general growth pattern.

2.2 Corn

Approximately 17,577 acres of corn were cultivated in 2018, comprising 28% of the total grain production within the District.

2.3 Cotton

Cotton remained relatively the same with 7,033 acres being in 2018.

2.4 Alfalfa

Alfalfa production within the District rose slightly with approximately 14,933 acres being cultivated in 2018, a decline of 2,073 acres from 2017.

2.5 Trees

Tree crops continued to rise throughout the District, with Almonds accounting for 19,135 acres in 2018. Table 2 shows selected tree crops and their accompanying growth trend.

Table 2
Selected Tree Crops – 2018
& Accompanying Trend

TREES	2018	2017	2016	2015	2014	2013	2012
Almonds	19,135	17,078	15,017	12,149	9,459	6,109	3,934
Pistachios	8,997	6,972	8,588	5,678	891	500	183
Cherries	331	353	291	311	303	317	66
Other ³	963	622	259	232	32	32	18
Total	29,425	25,025	24,155	18,369	6,958	6,958	4,300

2.6 Vegetables

Vegetable production declined by 7,691 acres from last year. Carrots, potatoes, and onions remain the top vegetable crops at 4,836, 4,478, and 1,766 acres respectively.

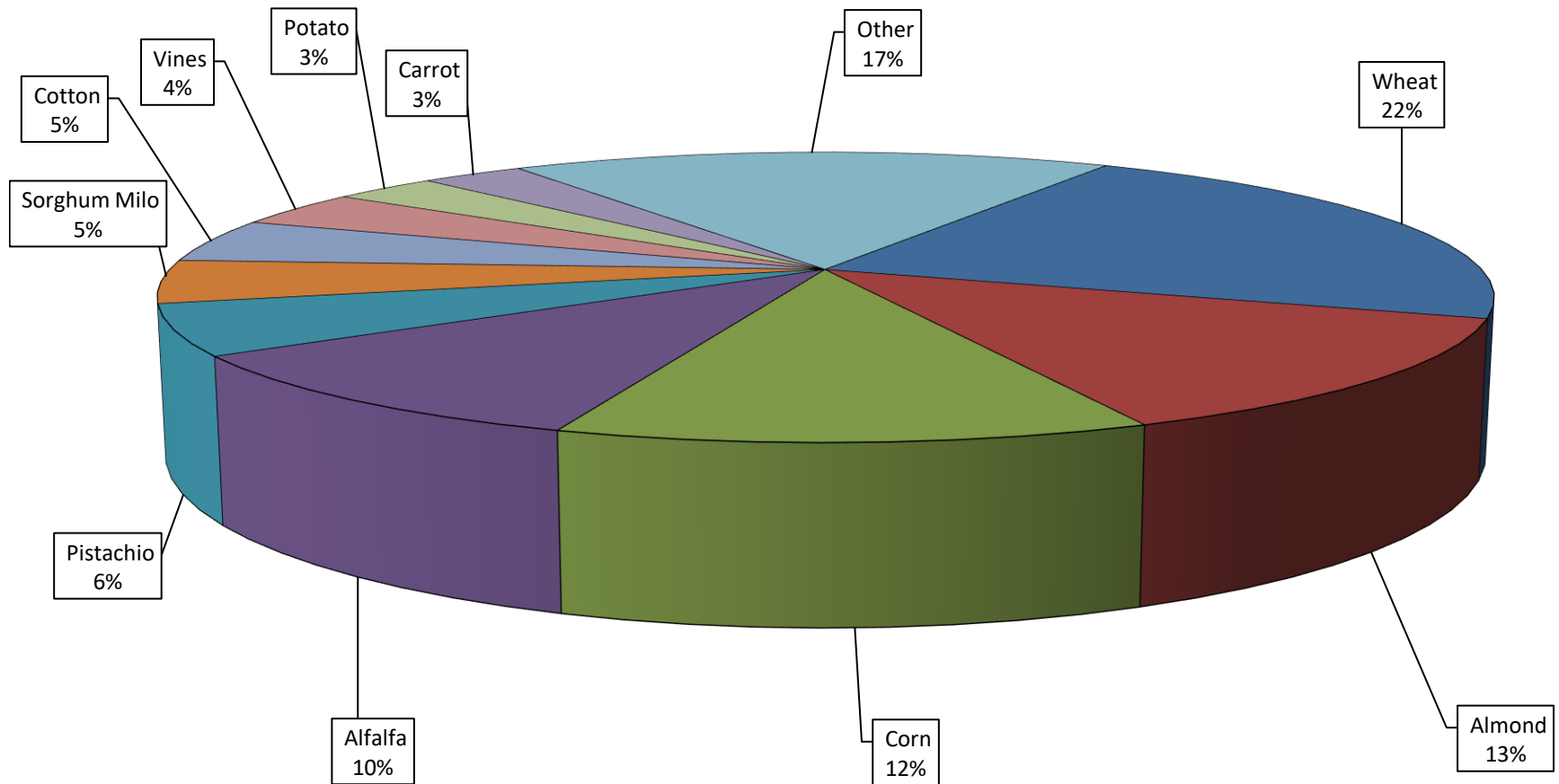
3.0 CONCLUSION

Overall, 81 varieties of crops were grown within the District for the 2018 growing season. The top three commodities produced were wheat, almonds, and corn. While 10,602 acres were fallowed, this could be due to crop rotation and or conversion to permanent crops, namely almonds.

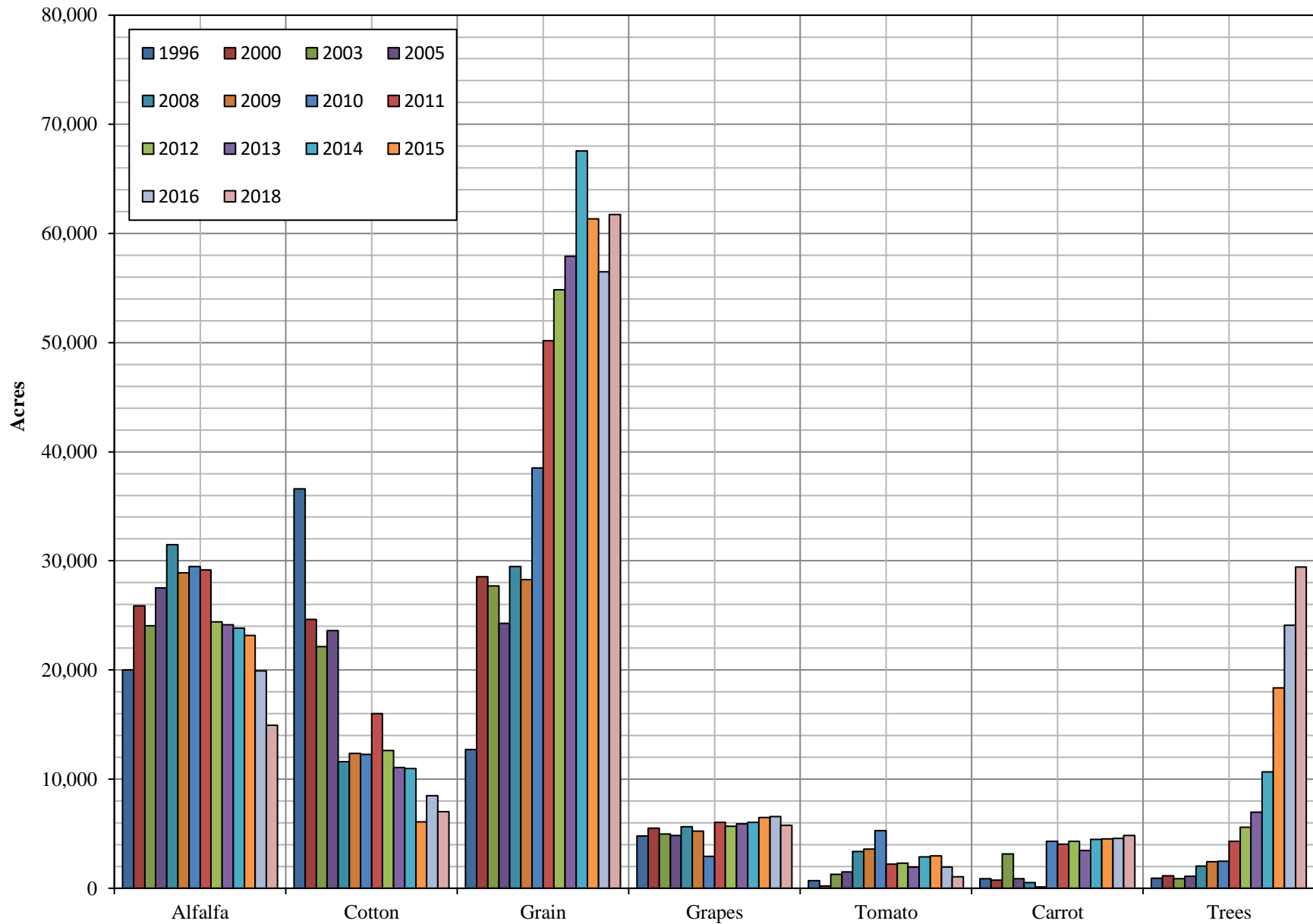
³ Other tree crops include apricots, nectarines, oranges, peaches, plums, and olives

FIGURES

Kern Delta Water District 2018 Crop Production



General Crop Trends Over Time



APPENDIX A

**KERN DELTA WATER DISTRICT
CROP REPORT
2018 GROWING SEASON
SUMMARY BY ACREAGE**

COMMODITY	ACREAGE
Wheat	32,209
Almond	19,135
Corn	17,577
Alfalfa	14,933
Pistachio	8,997
Sorghum Milo	8,223
Cotton	7,033
Carrot	4,836
Potato	4,478
Grape, Table	3,535
Triticale	2,587
Gape, Wine	1,763
Onion, Dry	1,698
Bok Choy	1,231
Gai Lon	1,172
Oat	1,148
Tomato	1,041
Safflower	1,010
Cabbage	843
Pasture	656
Beet	617
Turnip	533
Garbanzo Bean	520
Olive	514
Bean, Dried	502
Watermelon	492
Sudan grass	488
Broccoli	477
Cauliflower	477
Grape, Raisin	468
Cilantro	450
Lettuce	427
Garlic	411
Parsley	378
Dill	334
Cherry	331
Turf/Sod	296
Mustard	

**KERN DELTA WATER DISTRICT
CROP REPORT
2018 GROWING SEASON
SUMMARY BY ACREAGE**

COMMODITY	ACREAGE
Spinach	276
Fennel	271
Gai Choy	270
Swiss Chard	250
Kale	237
Daikon	206
Lettuce, Romaine	197
Sweet Potato	187
Sweet Basil	172
Rutabaga	160
Hemp/Cannabis	145
Radish	132
Peas	117
Arugula	100
Orange	95
Squash	88
Nursery	79
Dec. Tree	75
Kohlrabi	74
Collard Greens	72
Apricot	70
Blackberry	70
Musk Melon	70
Nectarine	70
Peach	70
Plum	70
Strawberry	70
Onion, Seed	68
Dandelion Green	65
Pepper, Fruiting	63
Love Grass	56
Celery	50
Pepper, Spice	46
Melon	44
Asparagus	43
Pumpkin	20
Okra	19
Eggplant	18

**KERN DELTA WATER DISTRICT
CROP REPORT
2018 GROWING SEASON
SUMMARY BY ACREAGE**

COMMODITY	ACREAGE
Rose	15
Cantaloupe	13
Hay	9
Rye	5

Total	146,351
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APPENDIX B

**KERN DELTA WATER DISTRICT
CROP REPORT
2018 GROWING SEASON
SUMMARY BY TOWNSHIP AND RANGE**

LOCATION	COMMODITY	QUANTITY	UNITS
30S/26E	Total Cultivated Acres		3,308
	Almond	3,234	Acres
	Wheat	74	Acres
30S/27E	Total Cultivated Acres		3,499
	Carrot	915	Acres
	Potato	893	Acres
	Almond	383	Acres
	Turf/Sod	308	Acres
	Alfalfa	169	Acres
	Corn	163	Acres
	Cotton	143	Acres
	Turnip	59	Acres
	Cabbage	40	Acres
	Onion, Dry	35	Acres
	Watermelon	35	Acres
	Oat	20	Acres
	Pumpkin	10	Acres
	Rutabaga	16	Acres
	Beet	6	Acres
	Orange	5	Acres
30S/28E	Total Cultivated Acres		6,381
	Wheat	1,289	Acres
	Almond	751	Acres
	Corn	645	Acres
	Grape, Table	637	Acres
	Alfalfa	611	Acres
	Sorghum Milo	334	Acres
	Grape, Wine	320	Acres
	Potato	208	Acres
	Oat	180	Acres
	Carrot	139	Acres
	Carrot	139	Acres
	Cotton	127	Acres
	Triticale	120	Acres
	Garlic	113	Acres
	Watermelon	110	Acres
	Turnip	66	Acres

**KERN DELTA WATER DISTRICT
CROP REPORT
2018 GROWING SEASON
SUMMARY BY TOWNSHIP AND RANGE**

LOCATION	COMMODITY	QUANTITY	UNITS
	Cabbage	62	Acres
	Asparagus	43	Acres
	Lettuce	43	Acres
	Melon	43	Acres
	Peas	43	Acres
	Grape, Raisin	20	Acres
	Beet	2	Acres
30S/29E	Total Cultivated Acres		540
	Almond	326	Acres
	Grape, Raisin	202	Acres
	Grape, Table	12	Acres
31S/26E	Total Cultivated Acres		29,119
	Wheat	11,613	Acres
	Corn	6,192	Acres
	Almond	3,965	Acres
	Sorghum Milo	2,750	Acres
	Pistachio	1,592	Acres
	Alfalfa	1,316	Acres
	Cotton	480	Acres
	Carrot	453	Acres
	Sudan Grass	401	Acres
	Triticale	162	Acres
	Cabbage	97	Acres
31S/27E	Total Cultivated Acres		28,454
	Almond	6,599	Acres
	Wheat	4,531	Acres
	Corn	3,859	Acres
	Potato	2,175	Acres
	Alfalfa	2,175	Acres
	Carrot	2,000	Acres
	Onion, Dry	1,090	Acres
	Triticale	975	Acres
	Sorghum Milo	723	Acres
	Garbanzo Bean	520	Acres
	Bean, Dried	502	Acres
	Cotton	449	Acres

**KERN DELTA WATER DISTRICT
CROP REPORT
2018 GROWING SEASON
SUMMARY BY TOWNSHIP AND RANGE**

LOCATION	COMMODITY	QUANTITY	UNITS
	Beet	285	Acres
	Cherry	251	Acres
	Pistachio	206	Acres
	Watermelon	202	Acres
	Sweet Basil	172	Acres
	Grape, Table	164	Acres
	Bok Choy	160	Acres
	Gai Lon	160	Acres
	Oat	145	Acres
	Turnip	127	Acres
	Sudan Grass	72	Acres
	Cabbage	50	Acres
	Pepper, Spice	46	Acres
	Pepper, Fruiting	45	Acres
	Onion, Seed	24	Acres
	Pasture	24	Acres
	Okra	19	Acres
	Daikon	18	Acres
	Eggplant	18	Acres
	Squash	18	Acres
	Dec. Tree	5	Acres
	Melon	1	Acres
31S/28E	Total Cultivated Acres		27,059
	Wheat	5,935	Acres
	Alfalfa	4,485	Acres
	Corn	3,606	Acres
	Grape, Table	1,865	Acres
	Almond	1,506	Acres
	Gai Lon	1,012	Acres
	Grape, Wine	991	Acres
	Bok Choy	955	Acres
	Sorghum Milo	834	Acres
	Cotton	752	Acres
	Oat	576	Acres
	Potato	520	Acres
	Carrot	431	Acres
	Gai Choy	270	Acres
	Pistachio	264	Acres

**KERN DELTA WATER DISTRICT
CROP REPORT
2018 GROWING SEASON
SUMMARY BY TOWNSHIP AND RANGE**

LOCATION	COMMODITY	QUANTITY	UNITS
	Grape, Raisin	219	Acres
	Lettuce	167	Acres
	Onion, Dry	166	Acres
	Cabbage	160	Acres
	Mustard	150	Acres
	Kale	136	Acres
	Beet	101	Acres
	Turnip	84	Acres
	Lettuce, Romaine	83	Acres
	Cilantro	75	Acres
	Dill	75	Acres
	Garlic	75	Acres
	Love Grass	56	Acres
	Swiss Chard	54	Acres
	Celery	50	Acres
	Fennel	50	Acres
	Onion, Seed	44	Acres
	Olive	44	Acres
	Spinach	36	Acres
	Broccoli	35	Acres
	Cauliflower	35	Acres
	Dandelion Green	35	Acres
	Pasture	31	Acres
	Sudan Grass	16	Acres
	Rose	11	Acres
	Rye	5	Acres
	Nursery	2	Acres
31S/29E	Total Cultivated Acres		9,128
	Almond	2,180	Acres
	Alfalfa	659	Acres
	Carrot	658	Acres
	Grape, Table	606	Acres
	Wheat	514	Acres
	Grape, Wine	452	Acres
	Olive	328	Acres
	Potato	282	Acres
	Sorghum Milo	255	Acres
	Tomato	234	Acres

**KERN DELTA WATER DISTRICT
CROP REPORT
2018 GROWING SEASON
SUMMARY BY TOWNSHIP AND RANGE**

LOCATION	COMMODITY	QUANTITY	UNITS
	Onion, Dry	203	Acres
	Sweet Potato	187	Acres
	Hemp/Cannabis	145	Acres
	Garlic	120	Acres
	Cotton	117	Acres
	Lettuce, Romaine	114	Acres
	Orange	90	Acres
	Cherry	80	Acres
	Nursery	77	Acres
	Cilantro	74	Acres
	Rutabaga	70	Acres
	Turnip	70	Acres
	Apricot	70	Acres
	Blackberry	70	Acres
	Musk Melon	70	Acres
	Nectarine	70	Acres
	Dec. Tree	70	Acres
	Peach	70	Acres
	Plum	70	Acres
	Squash	70	Acres
	Strawberry	70	Acres
	Watermelon	70	Acres
	Radish	60	Acres
	Broccoli	50	Acres
	Cauliflower	50	Acres
	Bok Choy	42	Acres
	Cabbage	42	Acres
	Daikon	42	Acres
	Oat	40	Acres
	Corn	38	Acres
	Dill	32	Acres
	Dandelion Green	30	Acres
	Swiss Chard	30	Acres
	Kale	29	Acres
	Arugula	28	Acres
	Grape, Raisin	27	Acres
	Pepper, Fruiting	18	Acres
	Cantaloupe	13	Acres
	Hay	9	Acres

**KERN DELTA WATER DISTRICT
CROP REPORT
2018 GROWING SEASON
SUMMARY BY TOWNSHIP AND RANGE**

LOCATION	COMMODITY	QUANTITY	UNITS
32S/26E	Total Cultivated Acres		6,539
	Pistachio	2,542	Acres
	Alfalfa	1,809	Acres
	Cotton	729	Acres
	Wheat	438	Acres
	Sorghum Milo	275	Acres
	Corn	176	Acres
	Oat	110	Acres
32S/27E	Total Cultivated Acres		21,372
	Wheat	4,469	Acres
	Pistachio	2,679	Acres
	Cotton	2,268	Acres
	Corn	1,512	Acres
	Alfalfa	1,013	Acres
	Safflower	1,010	Acres
	Sorghum Milo	716	Acres
	Tomato	653	Acres
	Pastureland	601	Acres
	Carrot	240	Acres
	Onion, Dry	192	Acres
	Almond	189	Acres
	Oat	77	Acres
	Watermelon	75	Acres
	Beet	57	Acres
	Turnip	55	Acres
	Rutabaga	2	Acres
32S/28E	Total Cultivated Acres		20,519
	Wheat	3,419	Acres
	Sorghum Milo	2,336	Acres
	Cotton	1,969	Acres
	Alfalfa	1,929	Acres
	Pistachio	1,714	Acres
	Corn	1,386	Acres
	Triticale	1,330	Acres
	Broccoli	392	Acres
	Cabbage	392	Acres
	Cauliflower	392	Acres

**KERN DELTA WATER DISTRICT
CROP REPORT
2018 GROWING SEASON
SUMMARY BY TOWNSHIP AND RANGE**

LOCATION	COMMODITY	QUANTITY	UNITS
	Parsley	378	Acres
	Cilantro	301	Acres
	Grape, Table	251	Acres
	Spinach	240	Acres
	Dill	227	Acres
	Fennel	221	Acres
	Beet	166	Acres
	Swiss Chard	166	Acres
	Tomato	154	Acres
	Daikon	146	Acres
	Mustard	146	Acres
	Garlic	103	Acres
	Bok Choy	74	Acres
	Kohlrabi	74	Acres
	Peas	74	Acres
	Arugula	72	Acres
	Collard Greens	72	Acres
	Kale	72	Acres
	Radish	72	Acres
	Rutabaga	72	Acres
	Turnip	72	Acres
	Onion, Dry	12	Acres
	Rose	4	Acres
32S/29E	Total Cultivated Acres		1,035
	Alfalfa	693	Acres
	Olive	142	Acres
	Total Cultivated Acres		146,351

Kern Delta Water District 2018 Crop Survey

