



2020 CALIFORNIA AVOCADO ACREAGE UPDATE USING REMOTE SENSING TECHNOLOGY

The California Avocado Commission’s crop estimating team in conjunction with Land IQ uses the latest in remote sensing techniques to assess avocado acreage in production. As technology continues to advance refinements in our fourth generation of remote sensing techniques were applied to satellite imagery collected during spring and summer months. The imagery processing techniques include; segmentation into homogenous polygons, retention of tree crop polygons, calculation of average crop canopy moisture and vegetation indices, analysis of change maps from previous inventories, and classification of avocado groves into four categories; producing, topped/stumped, new/young, and abandoned. Aerial imagery (for a real-world view), and satellite imagery (for spectral and temporal data) are integrated into previously classified avocado acreage and analyzed for current condition of California avocado acreage statewide.

2020 Avocado Acreage Classification Summary				
County	Producing Acres	New/Young Acres	Topped/Stumped Acres	Planted Acres
San Diego	14,421	783	1,284	16,488
Riverside	4,335	446	264	5,046
Ventura	17,056	1,825	874	19,754
Santa Barbara	5,828	629	284	6,741
San Luis Obispo	3,894	82	67	4,043
Five County Total	45,534	3,766	2,772	52,072
<i>Minor Counties</i>				
Orange	990	91	11	1,092
San Bernardino	467	22	3	492
Monterey	222	0	7	230
Tulare	104	2	1	106
Los Angeles	14	3	0	17
Fresno	1	3	0	4
Kern	3	0	0	3
Minor Counties Total	1,800	121	23	1,945
GRAND TOTAL	47,334	3,887	2,795	54,017

