



2018 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.

2018 Avocado Acreage Classification Summary				
County	Producing Acres	New/Young Acres	Topped/Stumped Acres	Planted Acres
San Diego	14,896	1,377	1,433	17,706
Riverside	4,185	571	433	5,189
Ventura	17,158	1,599	815	19,572
Santa Barbara	5,370	596	531	6,497
San Luis Obispo	3,828	90	96	4,014
Five County Total	45,437	4,233	3,308	52,978
<i>Minor Counties</i>				
<i>Orange</i>	935	85	2	1,022
<i>San Bernardino</i>	443	8	5	456
<i>Monterey</i>	210	15	0	225
<i>Tulare</i>	102	2	1	105
<i>Los Angeles</i>	30	0	3	33
<i>Fresno</i>	1	0	0	1
Minor Counties Total	1,721	110	11	1,842
GRAND TOTAL	47,158	4,343	3,319	54,820

