



2017 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.

2017 California Avocado Acreage Inventory By County				
County	Producing Acres	Top/Stumped Acres	New/Young Acres	Planted Acres
San Diego	16,361	1,479	1,262	19,102
Riverside	4,670	427	883	5,980
Ventura	18,232	567	1,902	20,701
Santa Barbara	5,583	637	948	7,168
San Luis Obispo	3,316	339	411	4,066
Minor Counties	1,825	22	82	1,929
Total:	49,987	3,471	5,488	58,945
<i>Minor Counties Consist of:</i>				
<i>Fresno</i>	1	0	0	1
<i>Los Angeles</i>	33	0	0	33
<i>Monterey</i>	210	0	15	225
<i>Orange</i>	1,016	17	53	1,085
<i>San Bernardino</i>	457	5	12	474
<i>Tulare</i>	108	1	2	111

