

**ACREAGE INVENTORY SUMMARY
2010 UPDATE USING REMOTE SENSING TECHNOLOGY**



The California Avocado Commission's crop estimating team in conjunction with GeoSpatial Partners, LLC uses the latest in remote sensing techniques to assess avocado acreage in production. As technology continues to advance refinements in our third generation of remote sensing techniques were applied to imagery flown during the spring-summer of 2010. 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 for five primary avocado growing counties; San Diego, Riverside, Ventura, Santa Barbara, and San Luis Obispo. Other minor counties acreage is estimated based on ancillary data from county agricultural commissioners and our grower community. The results of the avocado acreage inventory including the CAC crop team application of varietal break down are:

2010 Avocado Acreage Inventory					2010/11 Crop Estimating Acreage		
County	Producing Acres	Topped/Stumped Acres	New (Young) Acres	Change in Producing Acres from 2005	Variety	Producing Acres	Change from 2005
San Diego	17,673	4,801	610	(8,391)	Hass	48,632	(11,401)
Riverside	6,641	590	332	(1,385)	Lamb-Hass	2,198	384
Ventura	16,045	871	1,653	(559)	Other	1,328	(1,824)
Santa Barbara	5,860	816	451	(2,406)	Total	52,158	(12,841)
San Luis Obispo	4,087	149	333	282			
Minor Counties*	1,852			(382)			
Total	52,158	7,227	3,379	(12,841)			

*Orange, Los Angeles, San Bernardino, Monterey, San Joaquin Valley

