





The State of MRL Affairs – an Almond Perspective

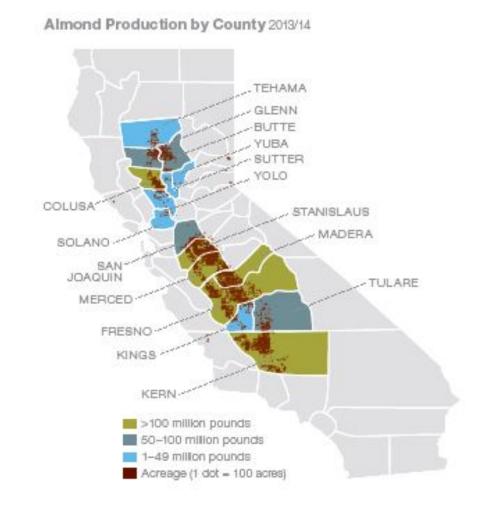
Gabriele Ludwig, Director, Sustainability & Environmental Affairs

The Scope of the California Almond Industry

- Spanning 500 miles (800 km) throughout the Central Valley
- 6,800 growers 105 handlers
- 100% of U.S. production

 - 82% of worldwide production- Shipments 66% export; 38% domestic
- \$4.8 billion in farm value*
- \$4.1 billion export value (2013)**

 - California's #1 ag export**Top U.S. specialty export crop
- 97,000 almond industry-related jobs generated in Central Valley, 104,000 statewide****, \$11 billion contributions to State GDP



Sources:



^{*}USDA Agricultural Statistics Service, Pacific Region (NASS/PR)

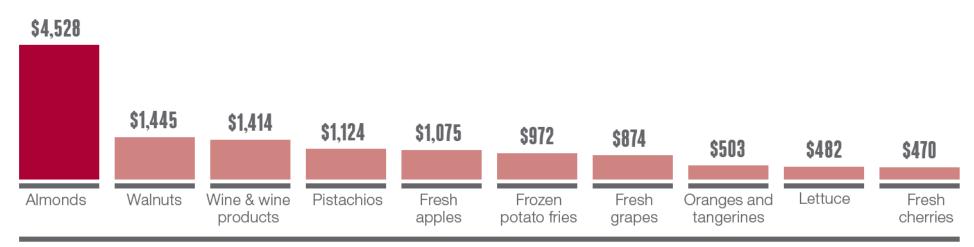
^{**}U.S. Department of Commerce, Foreign Trade Statistics

^{***}Agricultural Issues Center, University of California 2011

^{****} Source: Economic Impacts of the California Almond Industry: UC Ag Issues Center)

Top Ten US Specialty Crop Exports by Value

TOP TEN U.S. SPECIALTY CROP EXPORTS BY VALUE 2014,* in millions

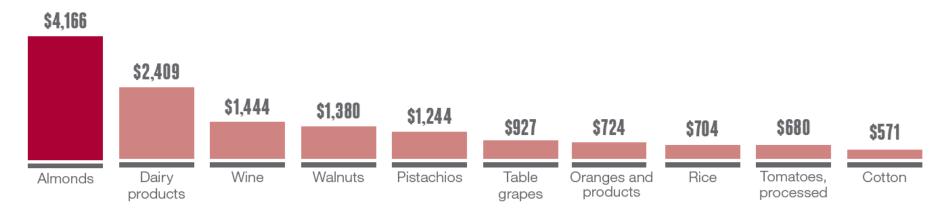


Source: Bureau of the Census, U.S. Department of Commerce, Foreign Trade Statistics. *Calendar year January through December 2014.

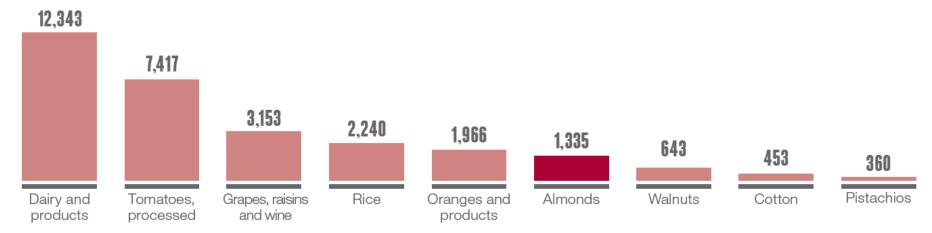


TOP CALIFORNIA AGRICULTURAL EXPORTS 2013*





By Volume millions of pounds



Note: This graph shows export volumes in comparable converted weights, measured in pounds. Volumes include fresh products and fresh equivalent of processed products that were converted to farm-fresh quantities using conversion factors published by USDA ERS.

2014/15 Shipments by Region

Domestic and Export Shipments





Source: Almond Board of California, July 2015 Position Report.

Western Europe



Asia-Pacific



Middle East/Africa



Latin America



Central/Eastern Europe



MRLs: Where we were – Where we are

Past:

- Most growers didn't know what a MRL was
- Most registrants had no idea of trade flows
- Codex process slow
- Little effort to harmonize data requirements/risk assessment processes
- Little testing for pesticide residues at import
- Group Grouping use limited
- More countries used Codex MRLs

Now:

- Registrants understand importance of trade flows for specialty crops
 - Much more proactive in submitting dossiers to critical markets
- Codex process more efficient with Step 5/8 and concern form.
 - Issue is JMPR capacity to review Als
- EPA and PMRA (and DPR) work more closely together
- EU adopts Codex MRLs that meet their risk assessment standards
- More countries (Asia, S.Am.) moving to their own positive list systems
- Better definitions of group groupings
- Much more frequent testing of products at import

Number of MLRs for Almonds has Generally Increased

EU



2007: 22 out of 75 US MRLs

2008: 108 out of 111 US MRLs/ Exemption,

- 54 MRLs lower than US MRLs or have an MRL where US has exemption from tolerance

2016: 103 out of 115 US MRLs/ Exemptions

- 48 are lower than the US MRLs or where US has an exemption from a tolerance

Canada



2006: 9 out of 79 US MRLs

- 51 US MRLs ≤ 0.1 ppm default MRL in Canada

2016: 51 out of 115 US MRLs

- 43 US MRLs ≤ 0.1 ppm default MRL in Canada
- 3 CAN MRLs < US MRLs



^{*} Info from historical spreadsheets developed for internal purposes – thus different base numbers at times.

Asian Markets

Taiwan



2008: 2 MRLs out of 111 US MRLs

- 8 provisional MRLs

2016: 62 MRLs out of 115 US MRLs/ exemptions

Japan



2007 pre-positive list: 62 out of 75

2009: 78 out of 90

2016: 95 out of 115

Better since no longer waiting for registration elsewhere for starting review of MRL packages

South Korea



+ 23 MRLs from derivation system

January 2017 start of positive list system for tree nuts and oil seeds in S. Korea

As of 3/30/16:

31 MRLs established or 0.01 ppm default covers MRL.

+ 32 MRLs data packages submitted or promised to be submitted

16 MRLs where submission status not guaranteed

- 6 of which registrants didn't plan to submit
- → Most critical MRLs are covered



Asian Markets: Emerging Issues

Hong Kong moved to positive list system in 2014.

- Will use Codex MRLs if meet their risk standards
- A number of compounds hung up in political wrangling

2016: 79 out of 115

China

2016: 23 out of 115



China doesn't have an import MRL process so difficult for items that are primarily imported



India

2016: 57 out of 115

However, ALL are based on Codex MRLs

- India's courts decided not legal to rely on Codex MRLs
- → Now working on developing a system to set their own MRLs



Codex

2007: 22 out of 75 MRLs

2016: 57 out of 115 MRLs

Almonds/tree nuts now being included with new A.I.s from the start.

Tree Nut Crop Grouping has been defined

Note: Almonds Hulls may now go into international trade







Where to next...

- China –officially use Codex and/or have import MRL process
- India develop timely and rational process for MRL/import MRL setting
- Codex ways/funds to expand JMPR capacity
- EU worry about impact of cut-off criteria/ divergent risk assessment process
- US process for reviewing and adopting Codex MRLs
- Better harmonization of Exempt from tolerances/ Biopesticides
- Wider use of crop groupings and representative crop data from different parts of the world.





