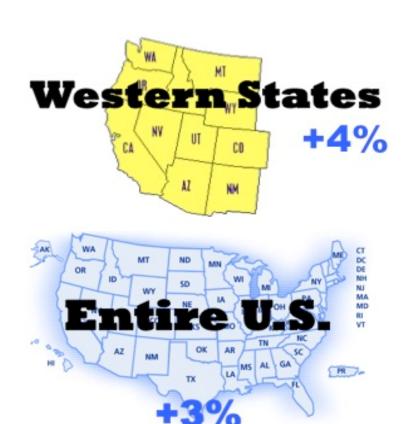


WA МT +48% **-21%** OR ID +17% WY +6% +7% NV UT CO -7% -5% +33% CA +6% \mathbf{NM} ΑZ +38% +5%

May 1 Hay Stocks 2016/2015 % CHANGE



Source: USDA-NASS

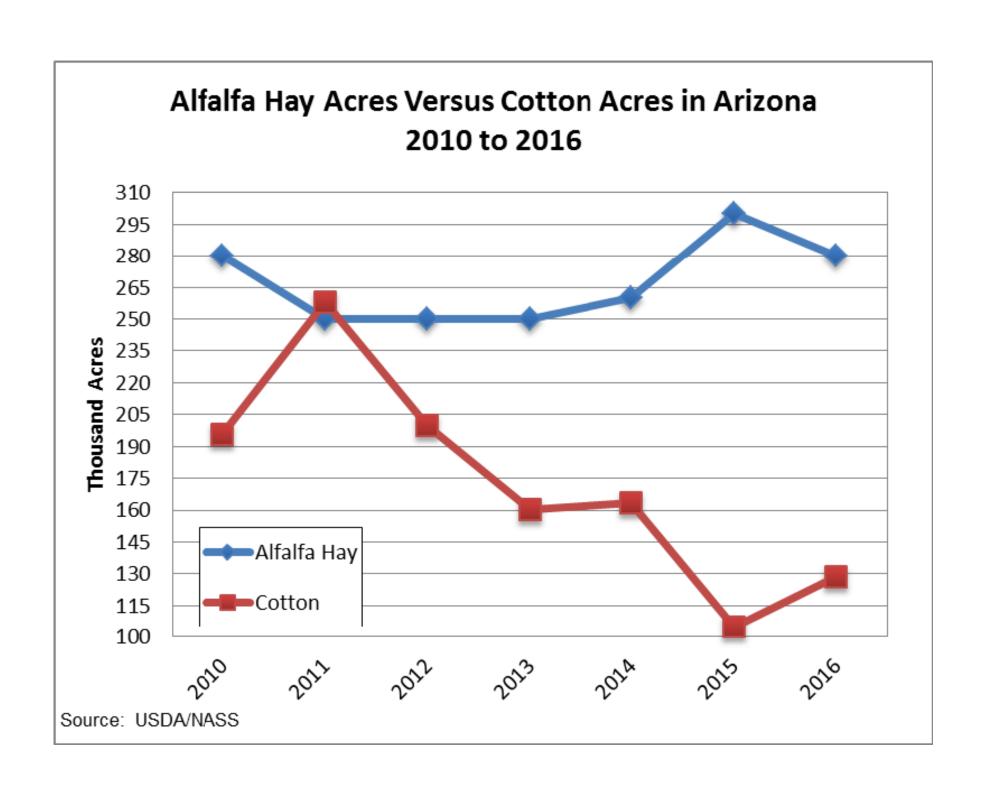
WA MT +10% +6% OR ID +14% WY NC -6% NV UT CO -5% +4% -3% CA -9% \mathbf{NM} ΑZ NC -7%

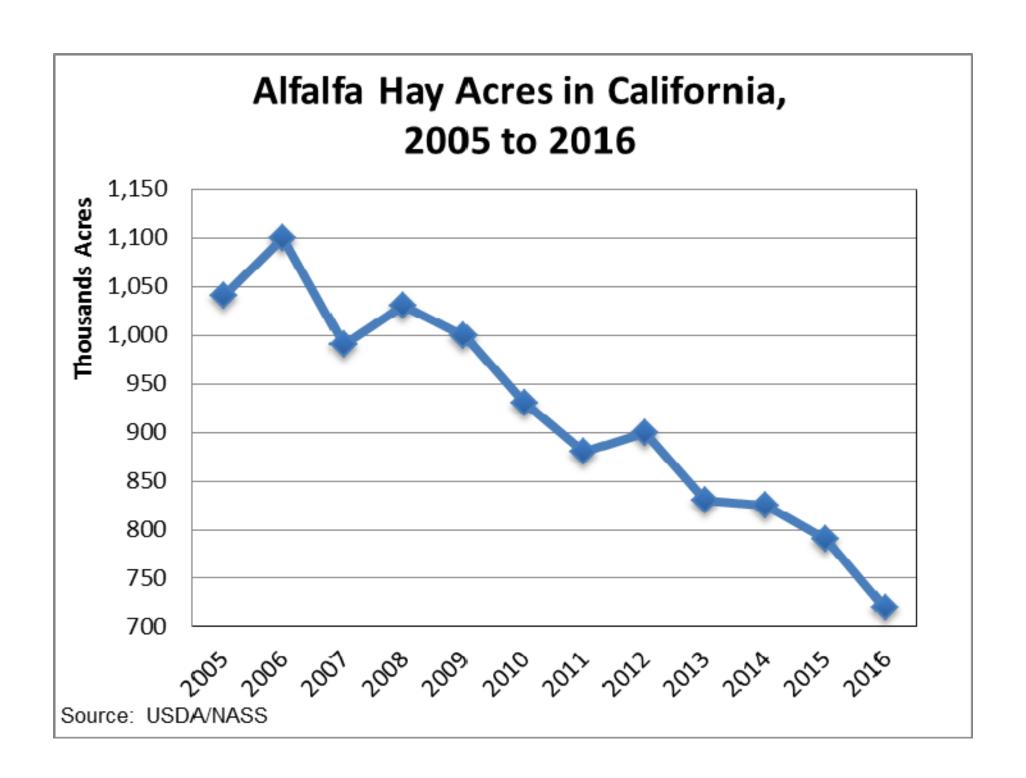
Alfalfa Hay Acres 2016/2015 % CHANGE

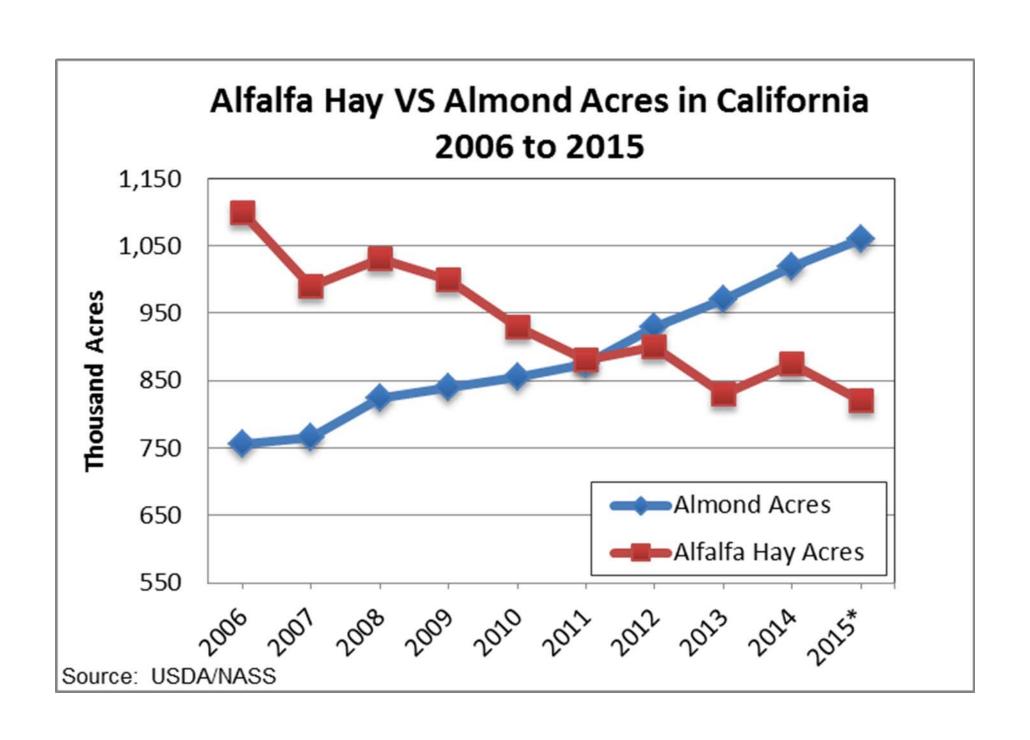




Source: USDA-NASS

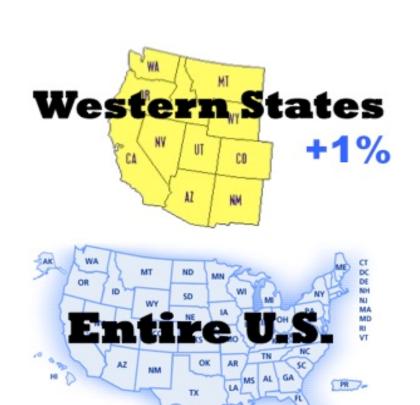




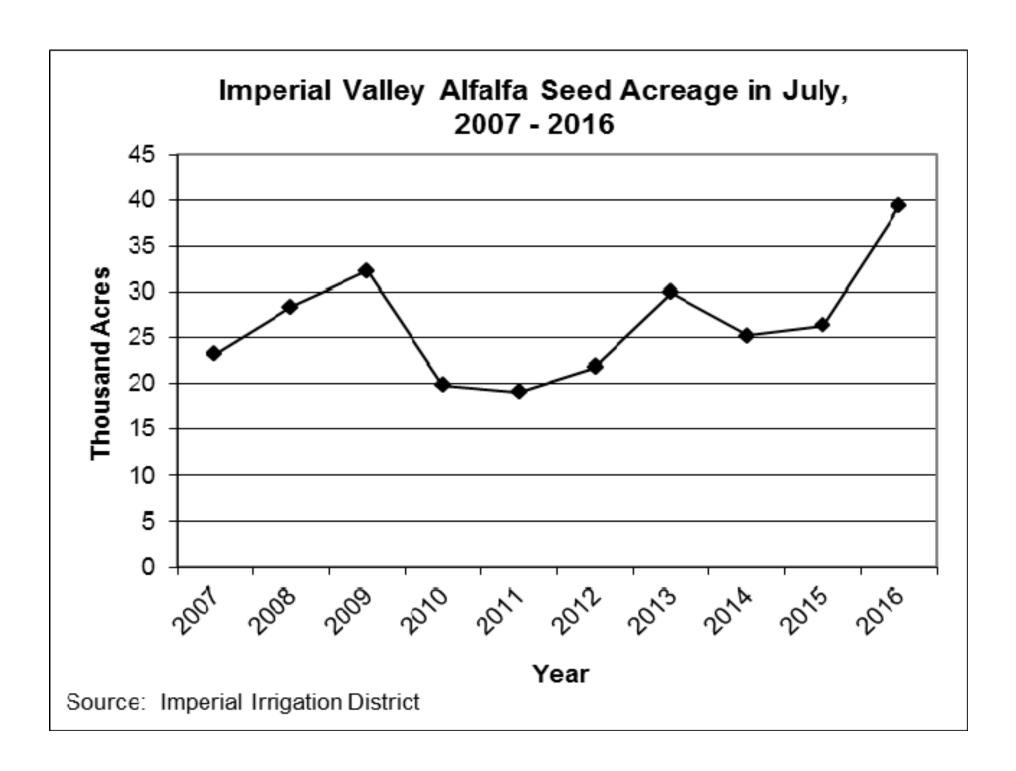


WA МT +10% +6% OR ID +27% WY +5% +6% NV UT CO -3% +6% -17% CA -8% \mathbf{NM} ΑZ -4% -2%

Alfalfa Hay Production 2016/2015 % CHANGE

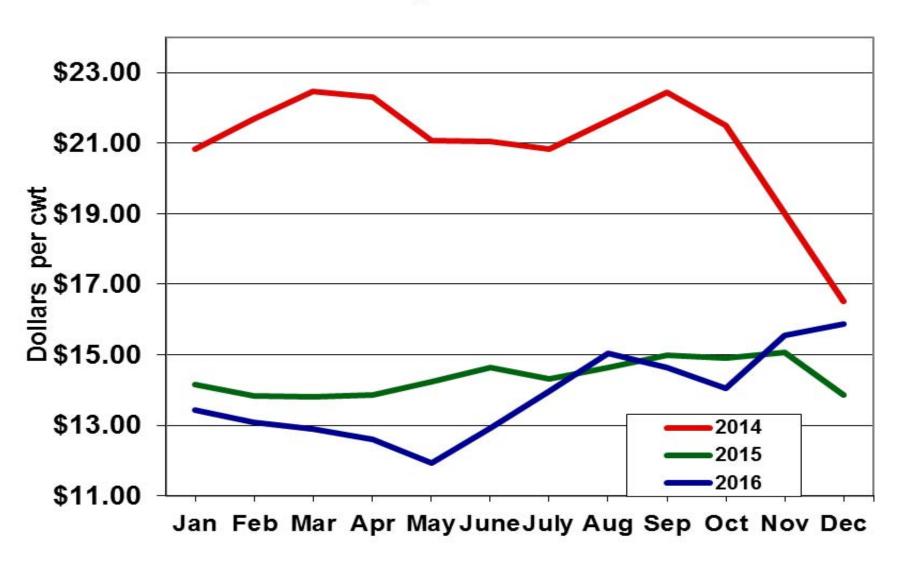


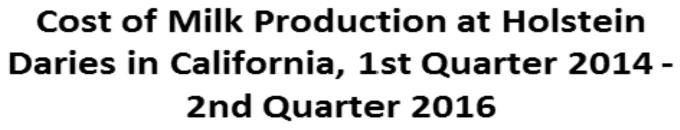
Source: USDA-NASS

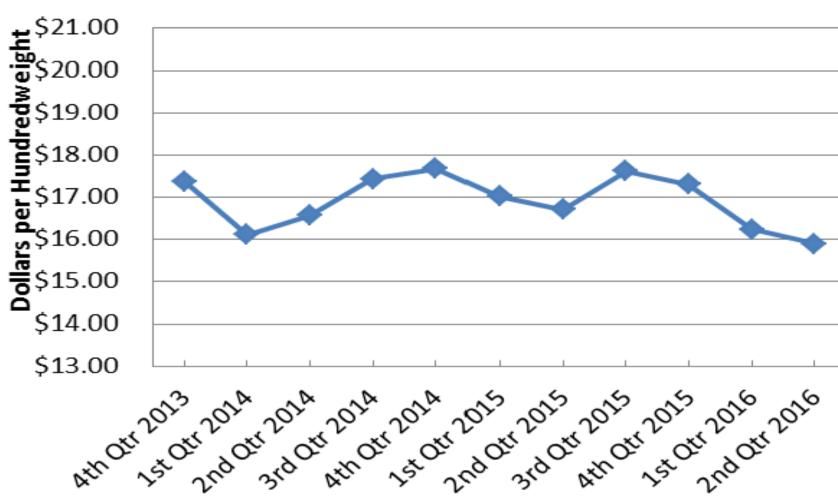


California Milk Prices (2014-2016)

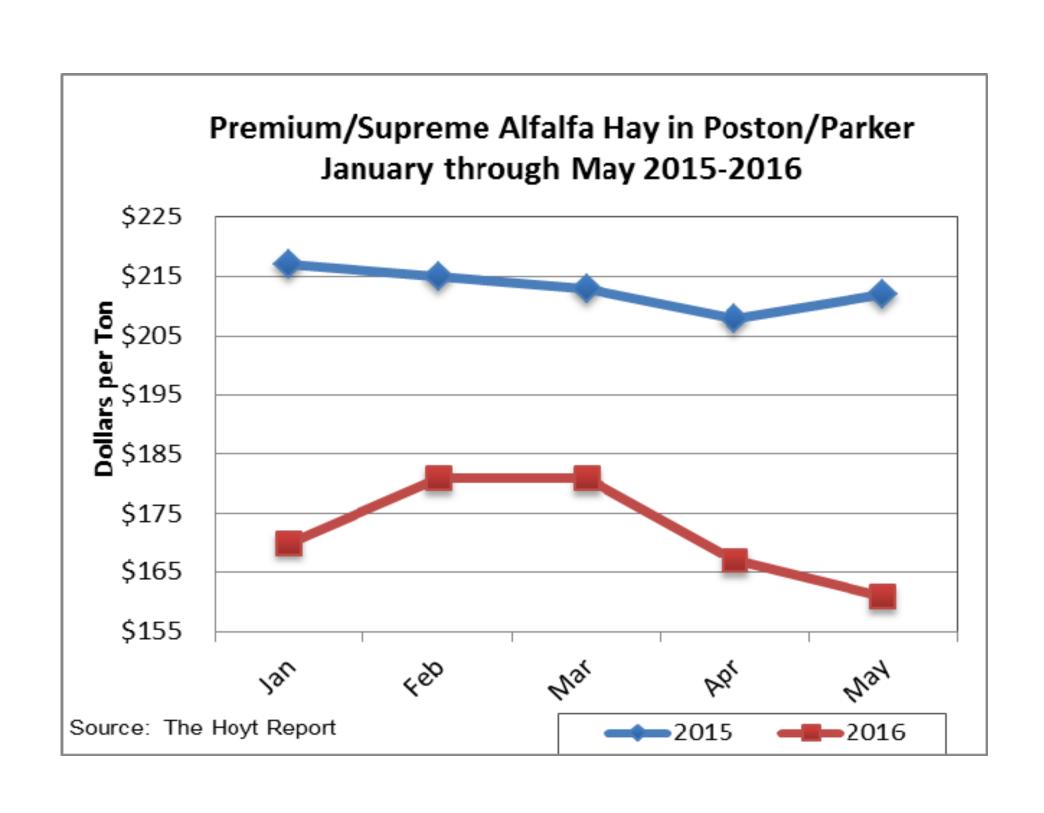
Milk Pooling - Statewide Overbase

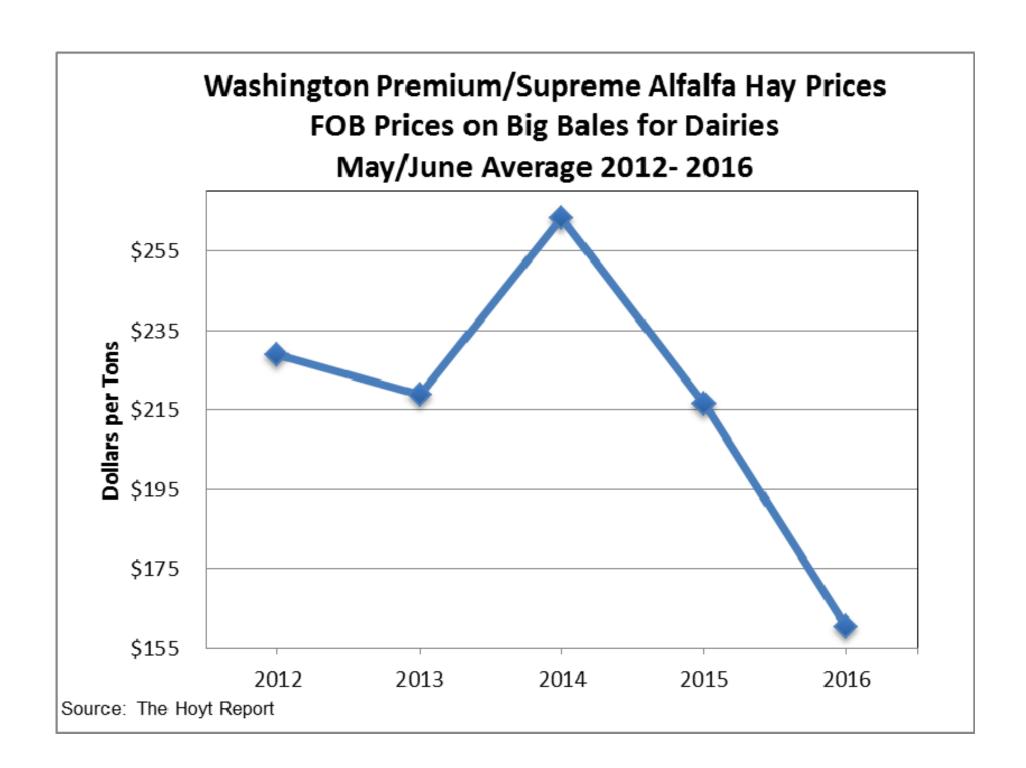




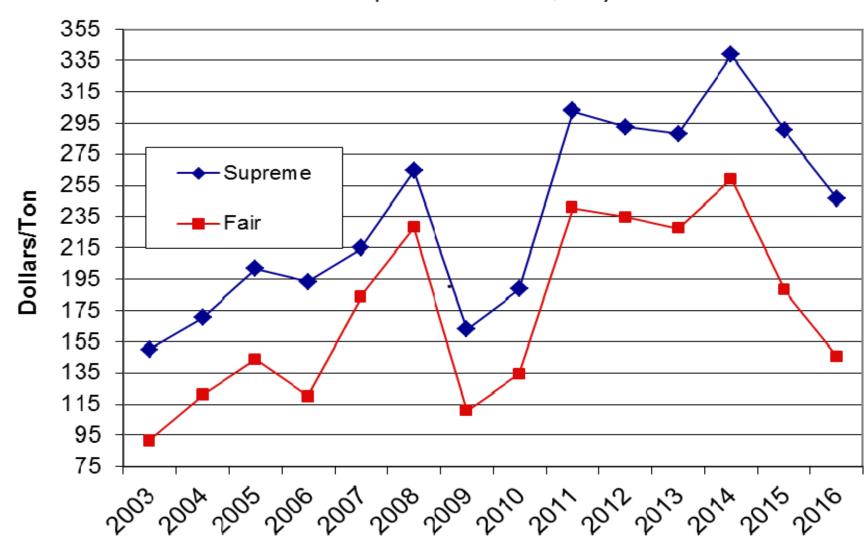


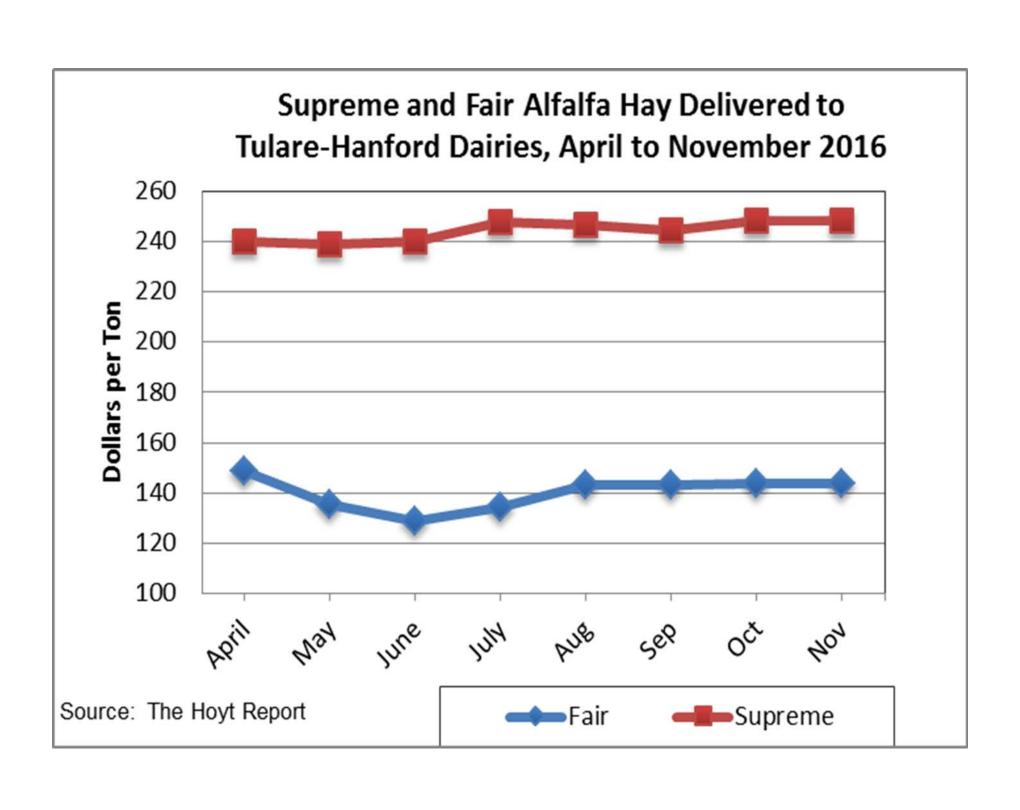
Source: CDFA Dairy Marketing * Does not include return on Investment & mgt . costs



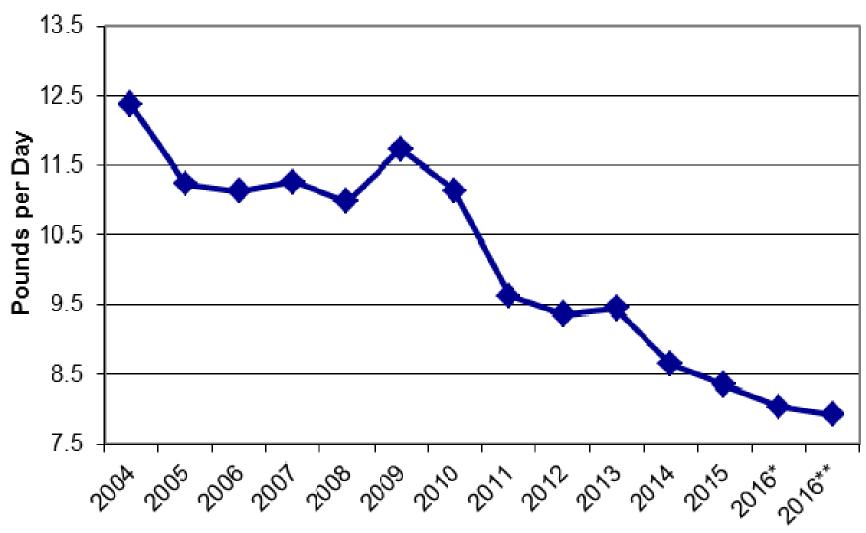


Tulare-Visalia-Hanford Delivered Alfalfa Hay Prices
Market News Yearly Avg. Price, 2003-2010, The Hoyt Report 2011-2016
Supreme and Fair Quality

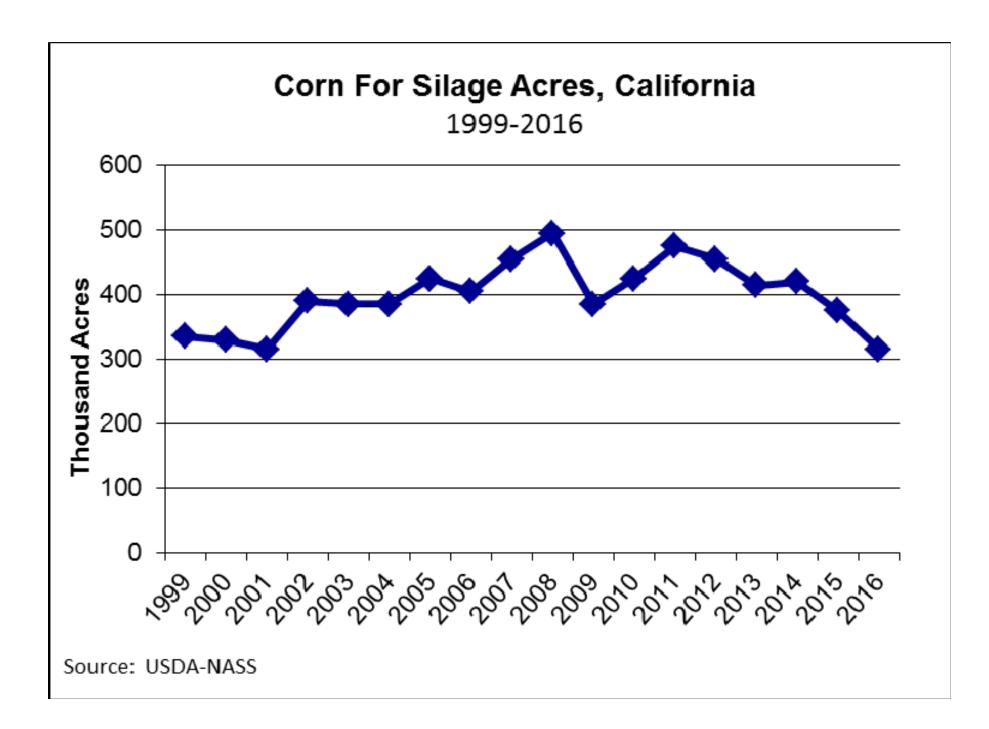


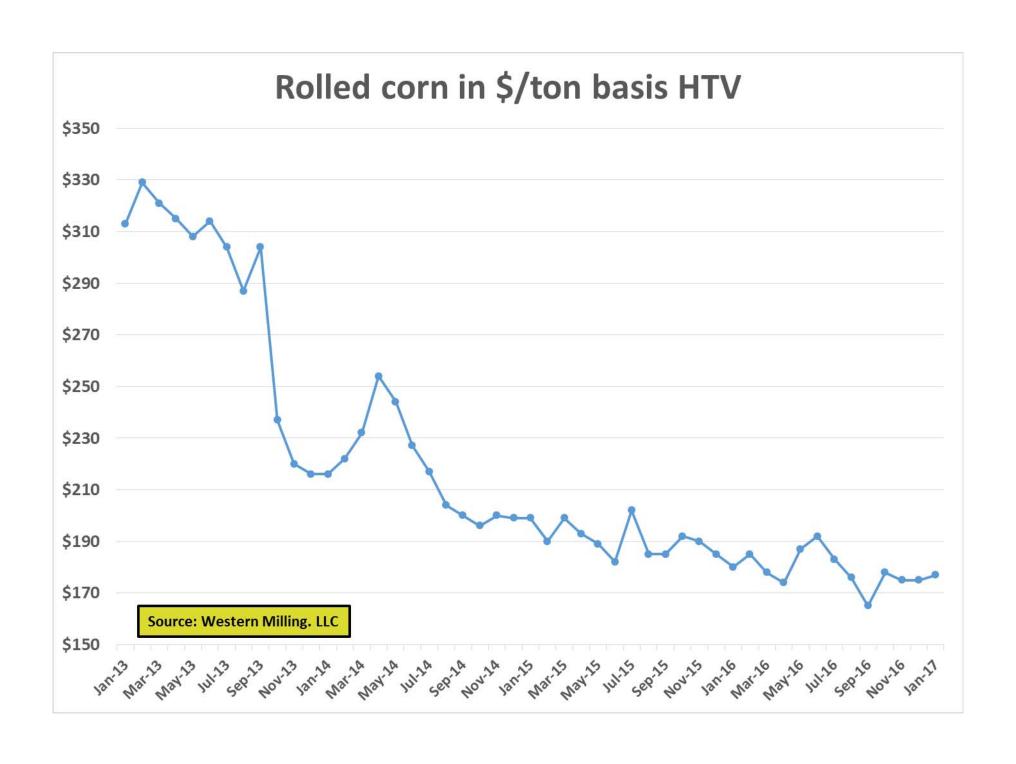


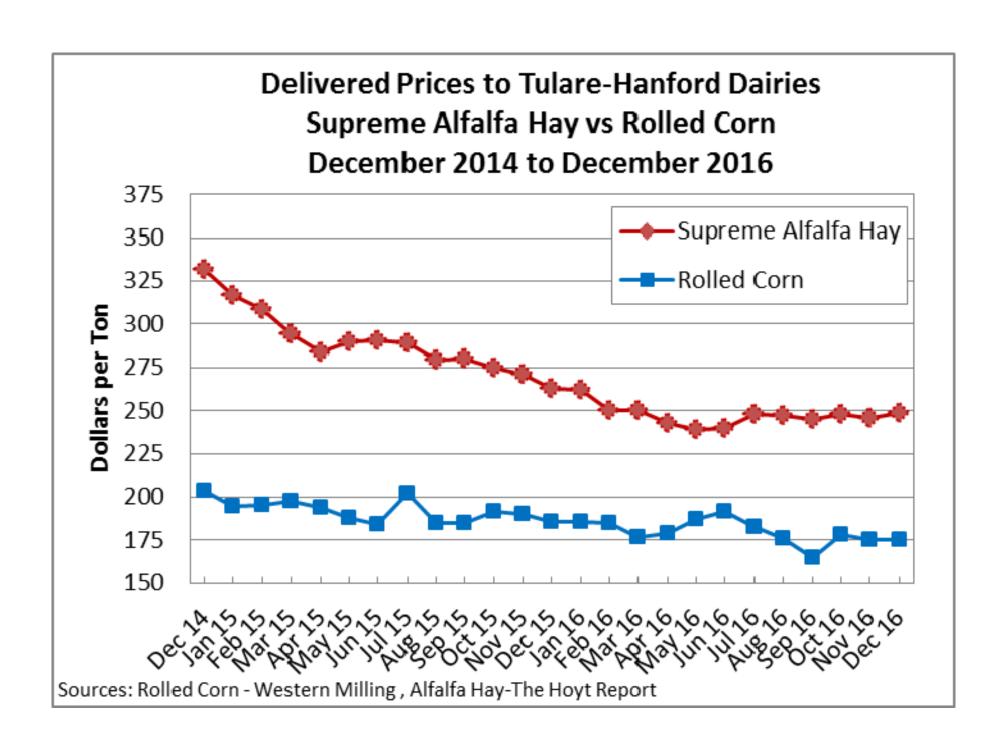


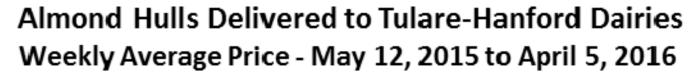


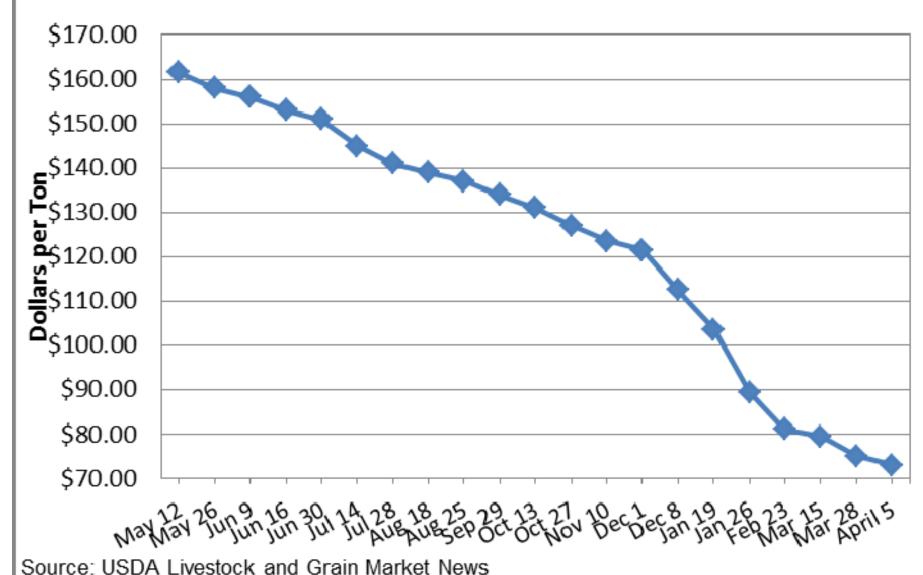
Source: CDFA 2016 - * Second Quarter ** Third Quarter



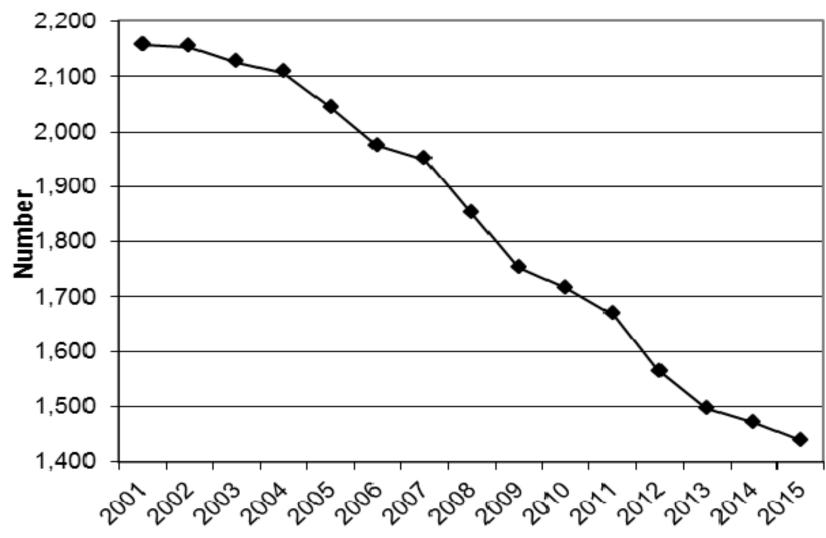






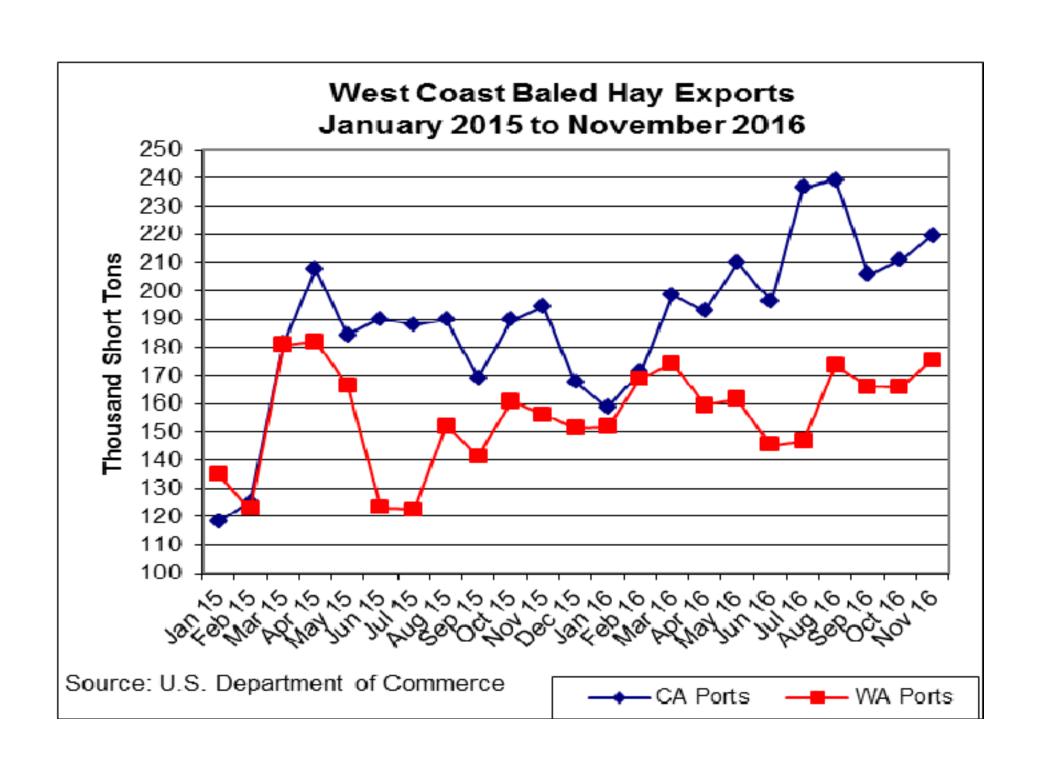


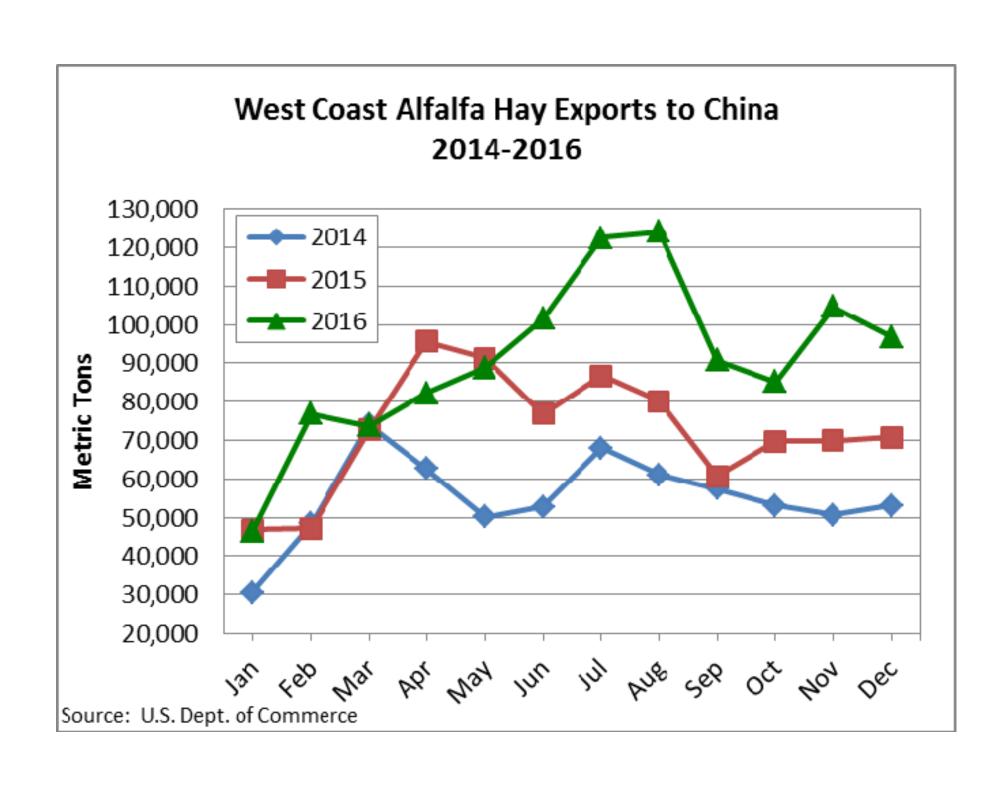




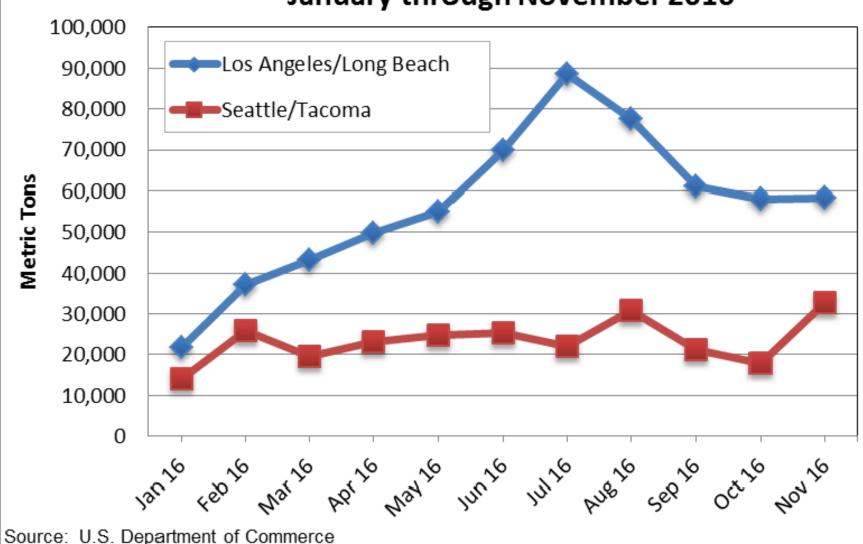
Source: CDFA Milk and Dairy Foods Safety Branch

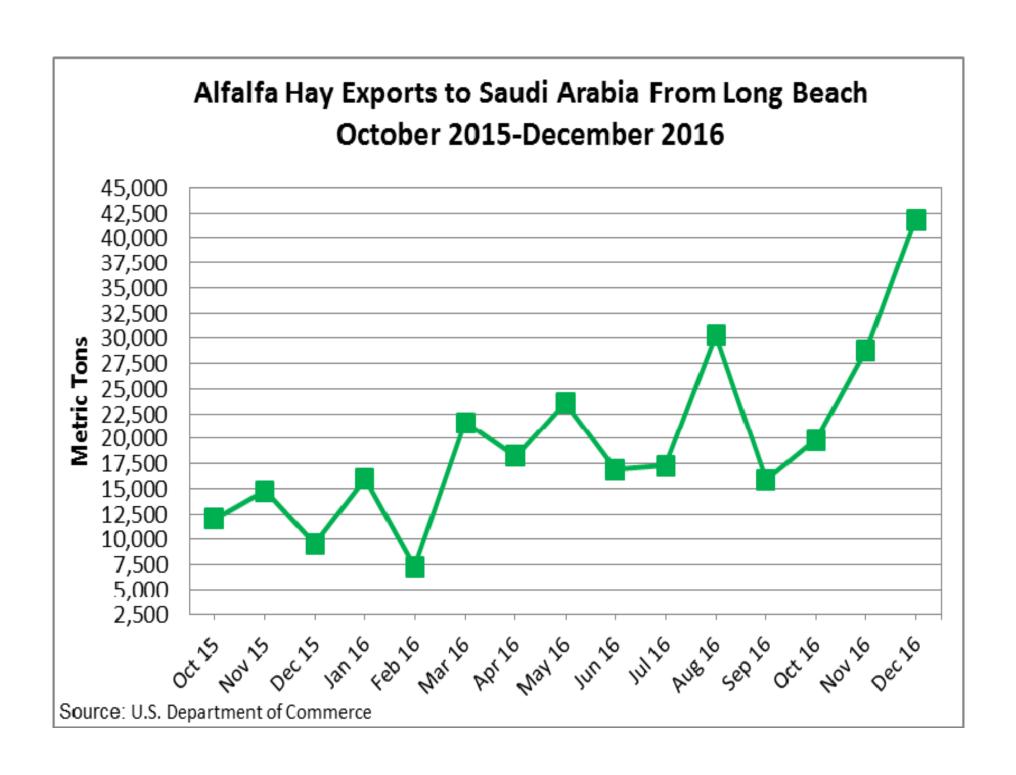
Hay Exports



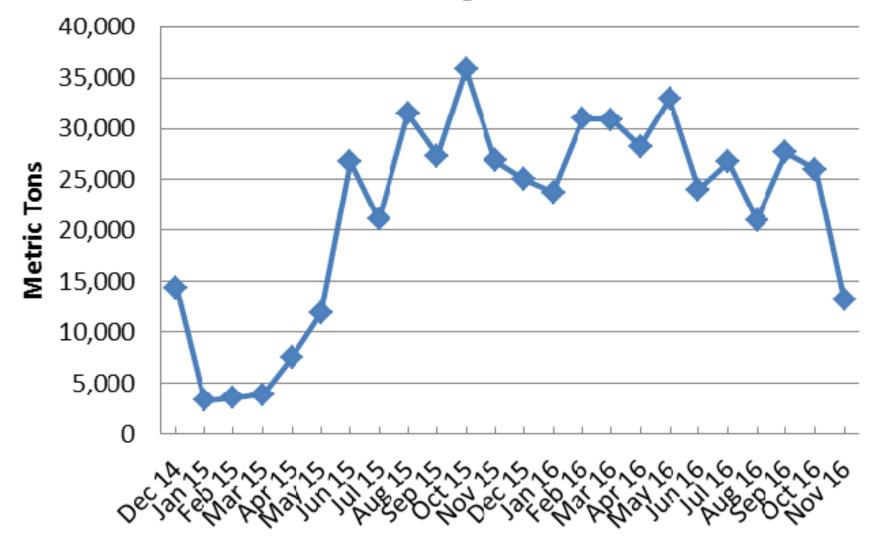




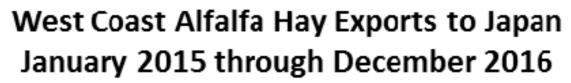


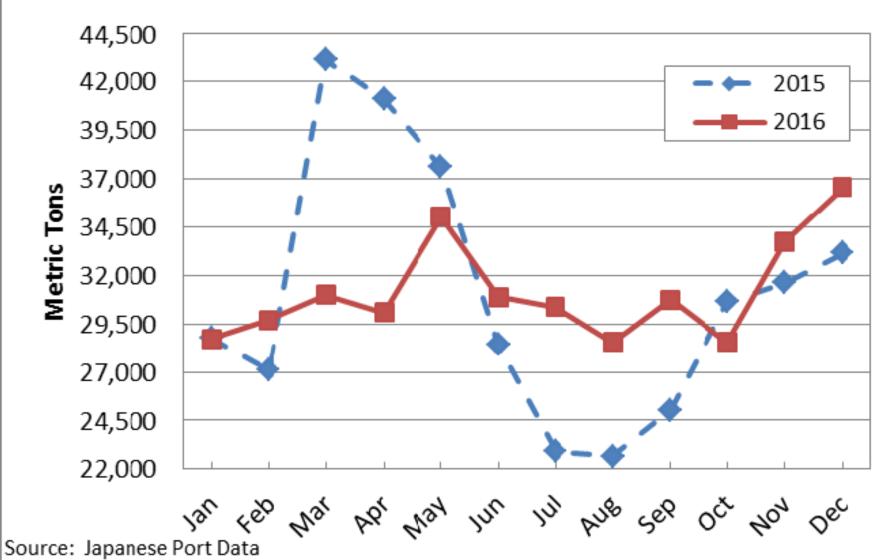


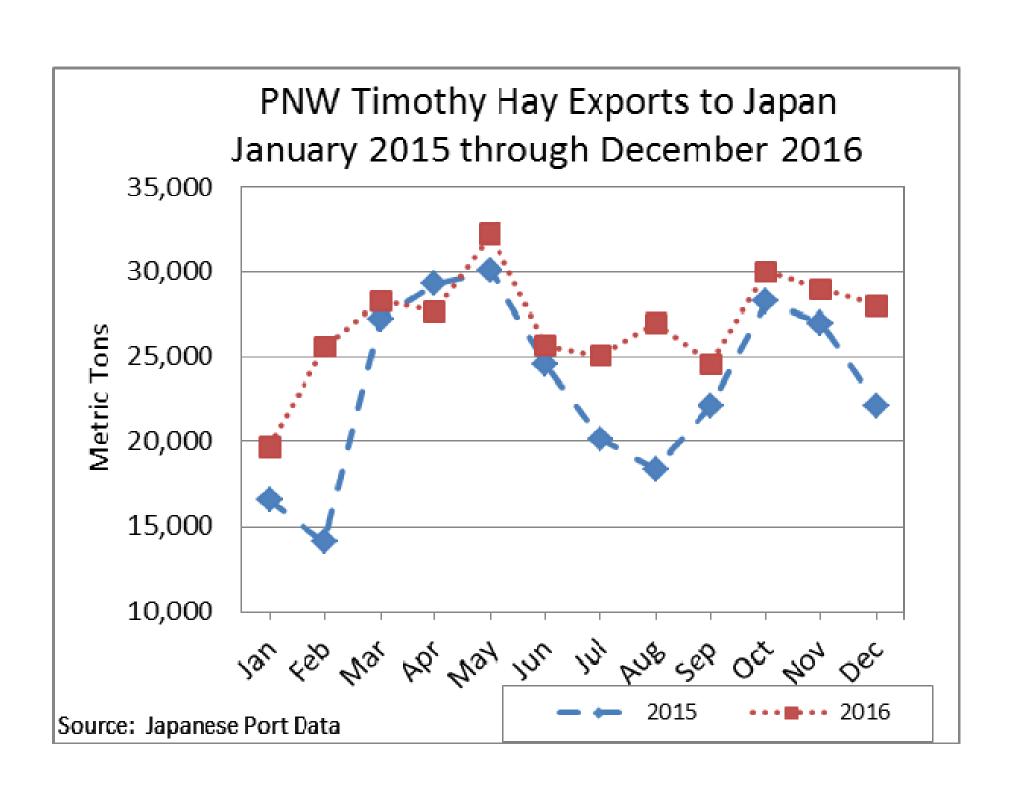


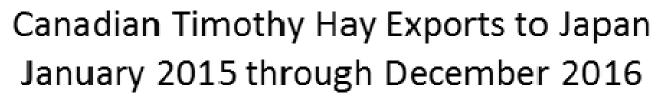


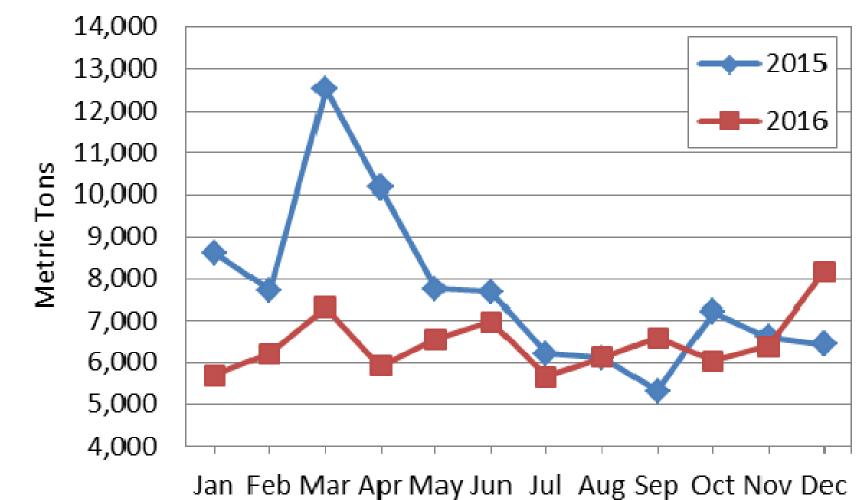
Source: U.S. Dept. of Commerce



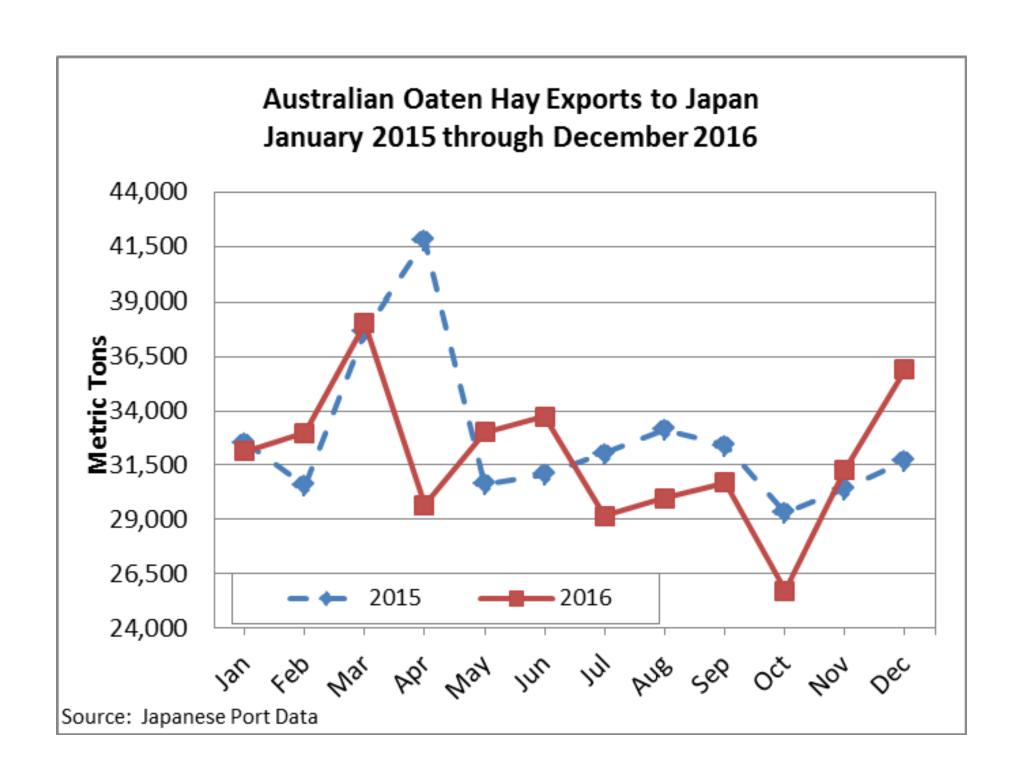


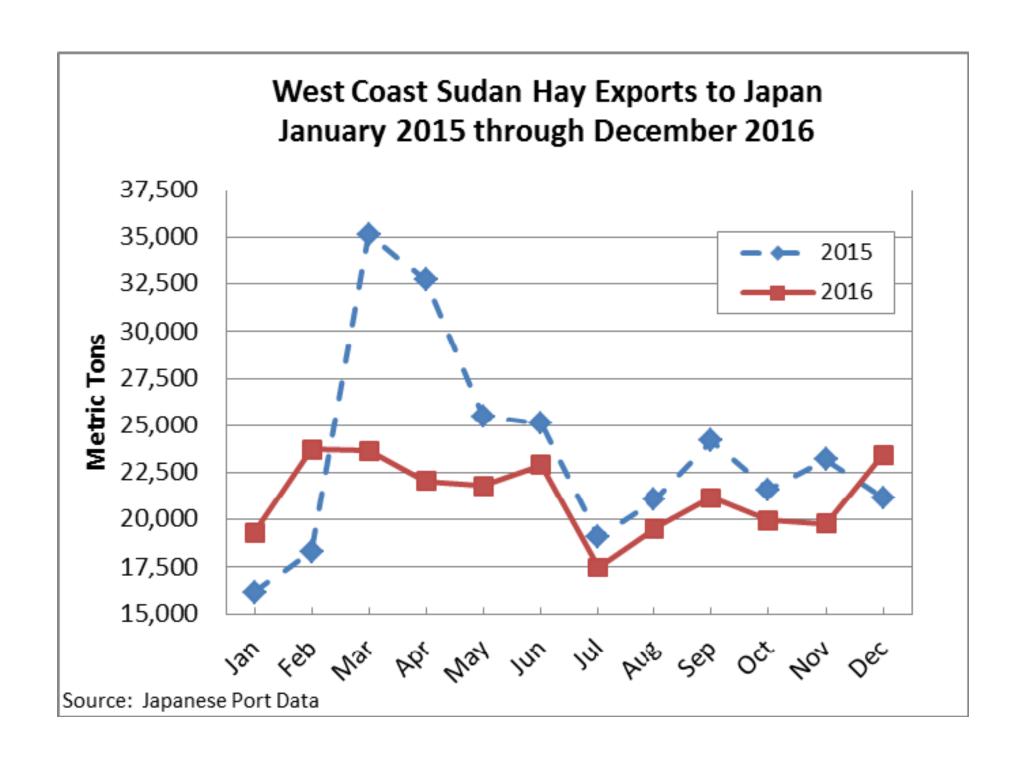




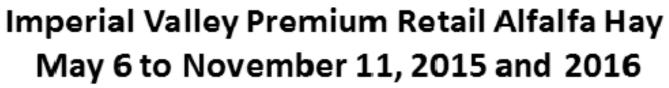


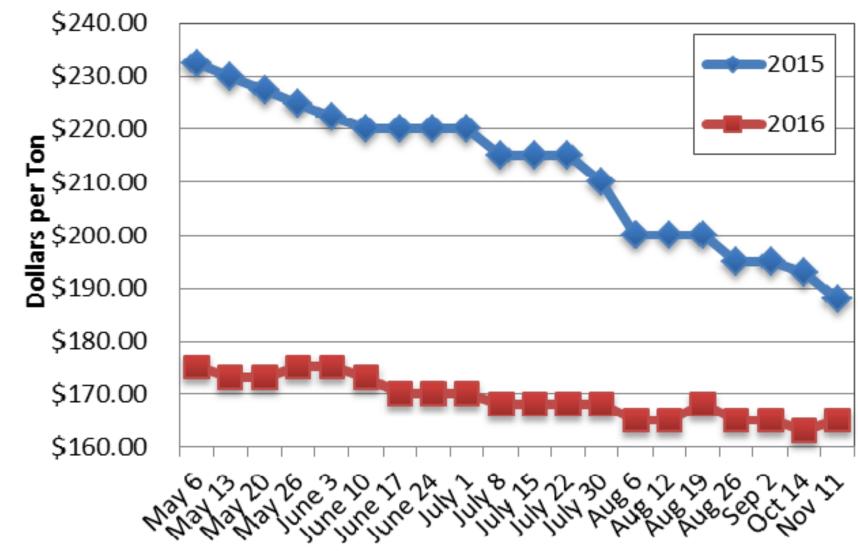
Source: Japanese Port Data





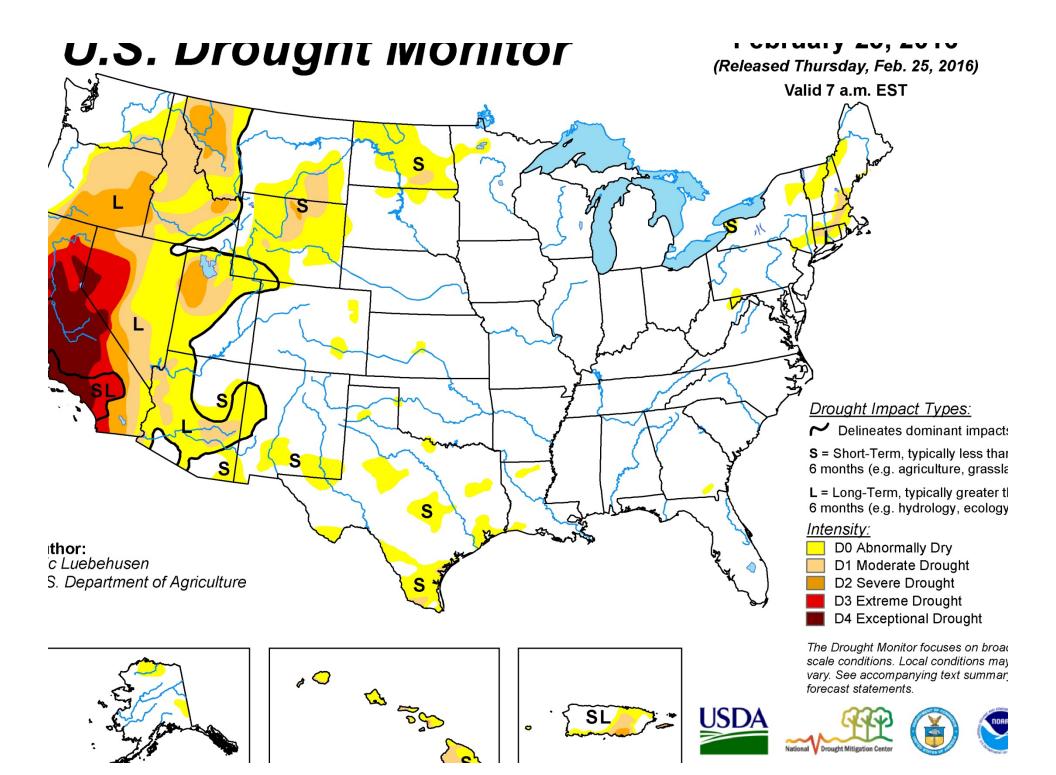
Retail AlfalfaHay

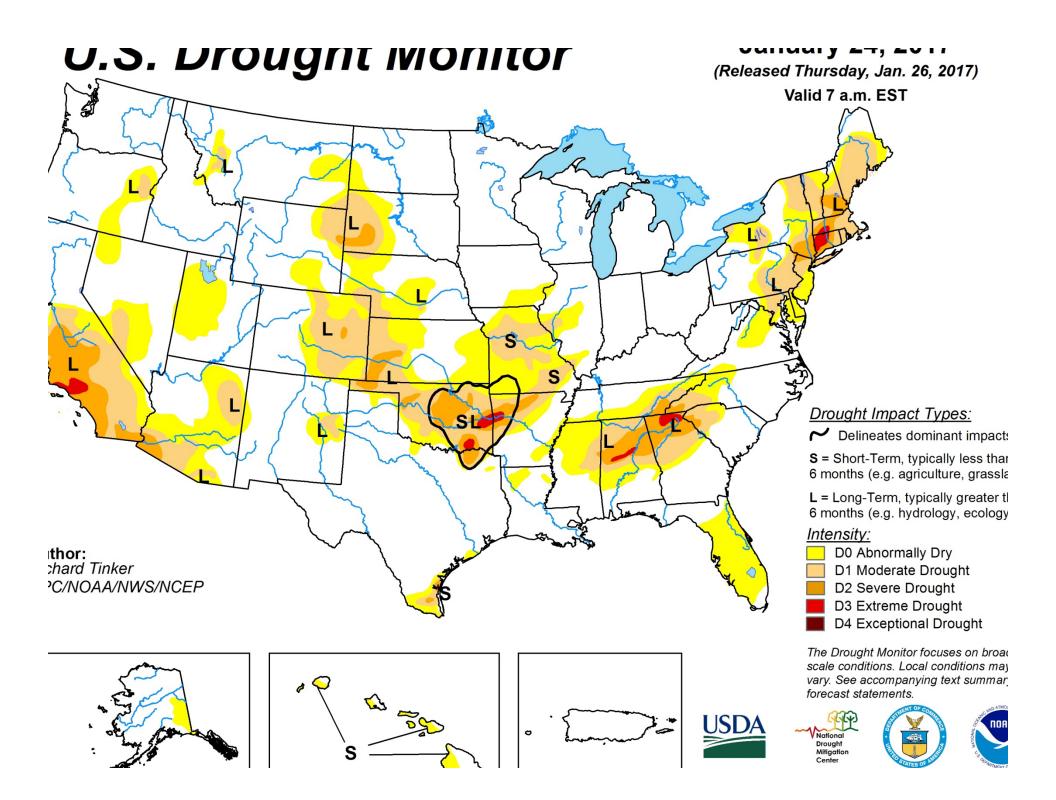




Source: The Hoyt Report

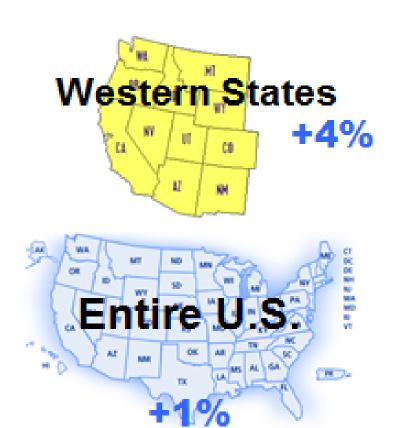
Outlook For 2017





WA MΤ +11% OR ID +15% WY +4% +8% NV UT CO +9% -13% +4% CA **-5**% NM ΑZ -3% NC

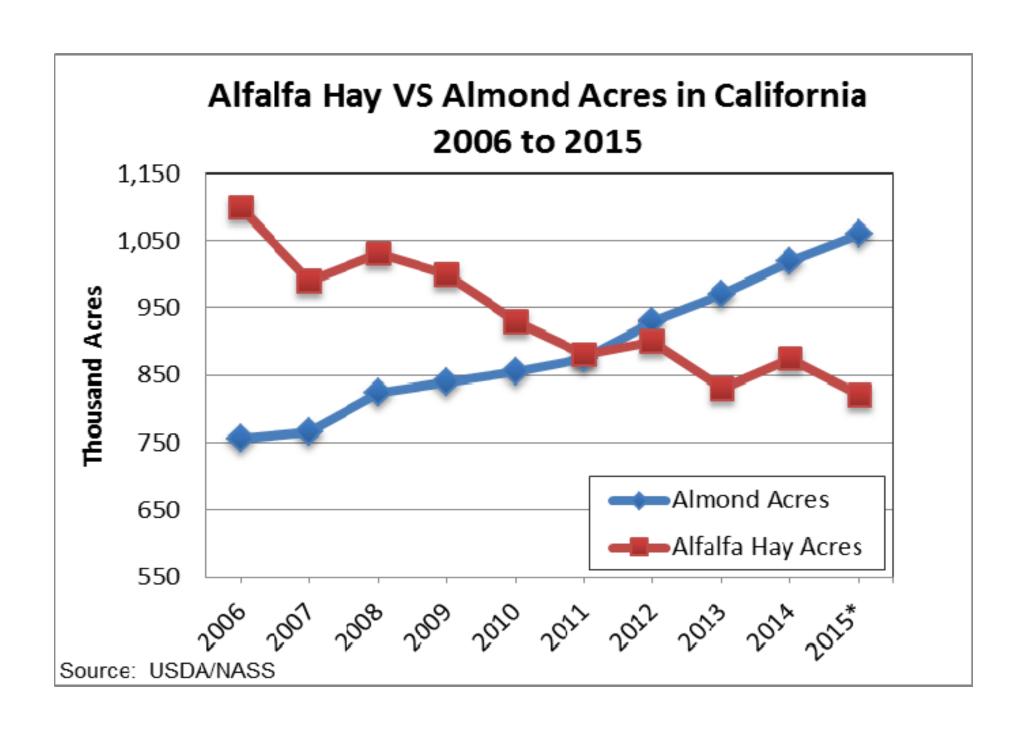
December 1 Hay Stocks 2016/2015 % CHANGE



Source: USDA-NASS

Alfalfa Hay Acres in 2017

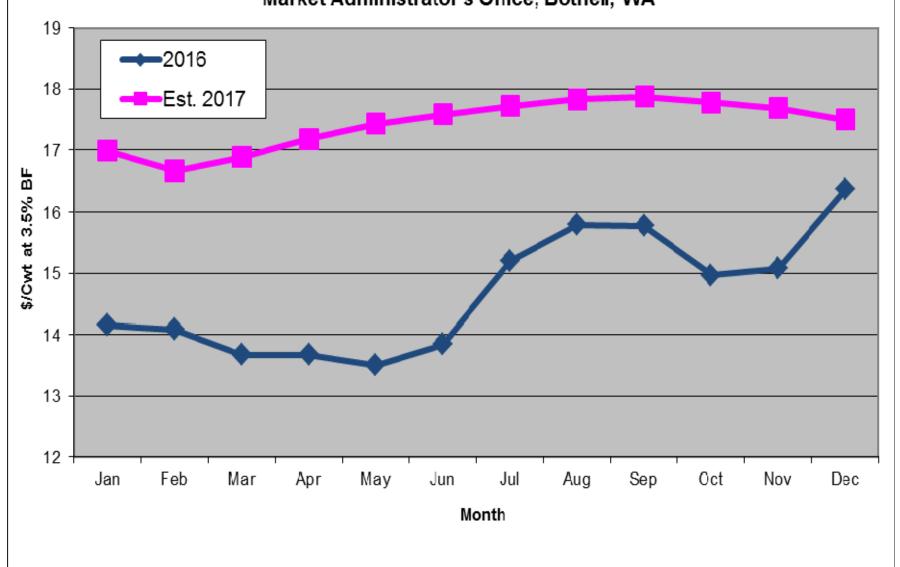
- Growers want to reduce alfalfa hay acres
- Early indications acres will be down in the west but
- More cotton in AZ & CA, more trees in CA
- More timothy hay will reduce alfalfa acres in WA but not many crop options in much of the west



Dairy Situation in 2017

- Milk Prices projected to be higher
- Hgher milk production and larger dairy cow inventory slowing U.S. recovery
- USDA forecasting 2.1% growth in U.S. milk production in 2017
- Higher world dairy product markets could help U.S. dairy exports





WA MT -0.2% NA OR ID **-2.8**% WY +2.7% NA NV UT CO NA -1.7% +7.3% CA +0.5% \mathbf{NM} ΑZ +0.2% +7.1%

December Milk Production 2016/2015 % CHANGE



Source: USDA-NASS

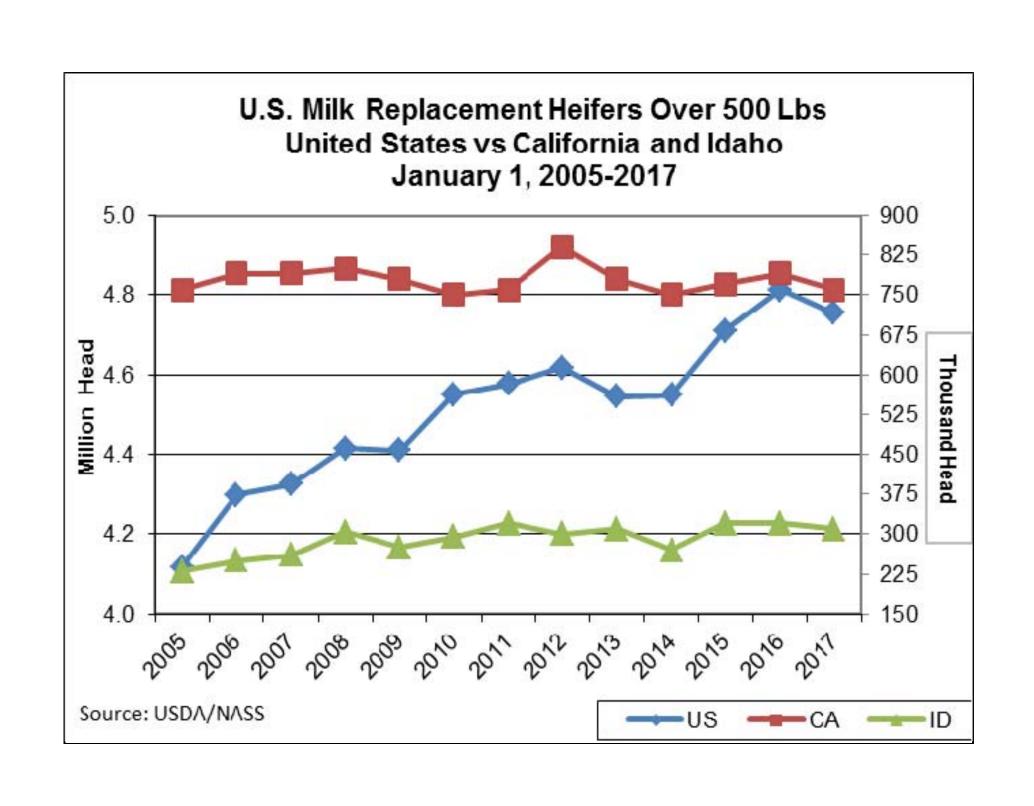
WA MT -0.7% NA OR ID -1.6% WY +2.2% NA NV UT CO NA **-3.2% +3.7%** CA -0.6% \mathbf{NM} ΑZ +0.5% +1.9%

December Milk Cow Numbers 2016/2015 % CHANGE





Source: USDA-NASS



Hay Exports

- China and Saudi Arabia are growth markets for alfalfa hay from the west coast
- Japan, UAE, Korea are mature markets
- Ocean shipping rates climbing went from overcapacity to tighter capacity after Hanjin bankruptcy
- Export timothy demand strong —will it continue in 2017?

Hay Market Trends

- Alfalfa hay market in the west in 2017 will depend on a lot of "if's"
- If alfalfa hay acres are down, if milk prices are stronger than 2016, and if exports continue to grow to China & Saudi Arabia, alfalfa hay prices could be stronger in 2017
- Feeder/Dry cow hay market in the west will probably recover faster than expected

Best Wishes in 2017

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Hay Market Analysis and Insights



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