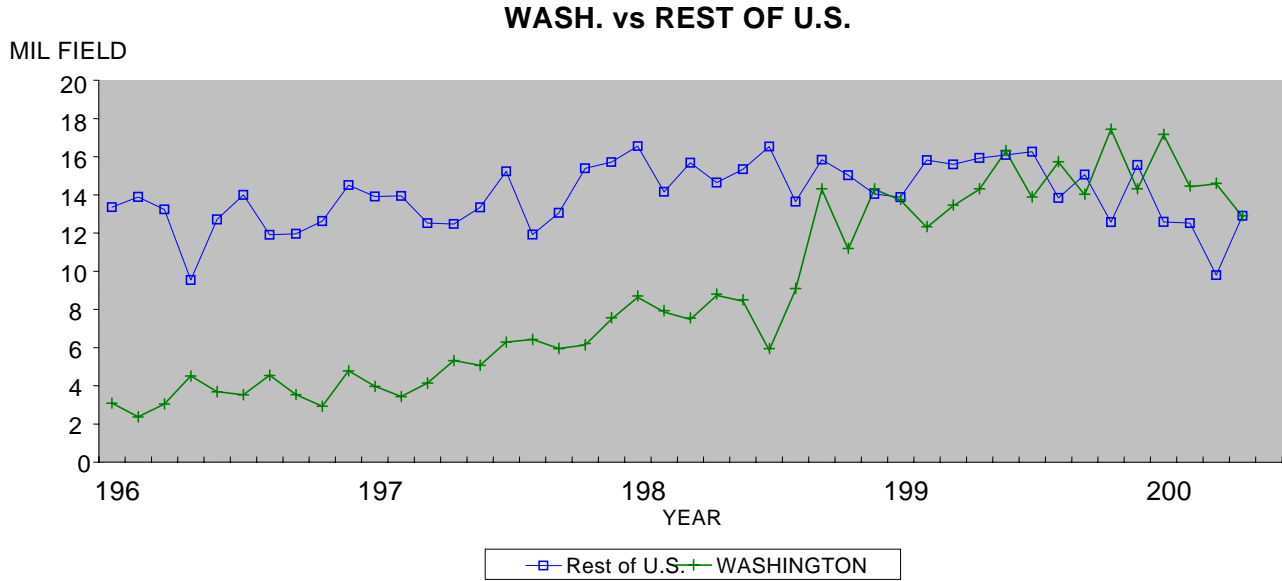


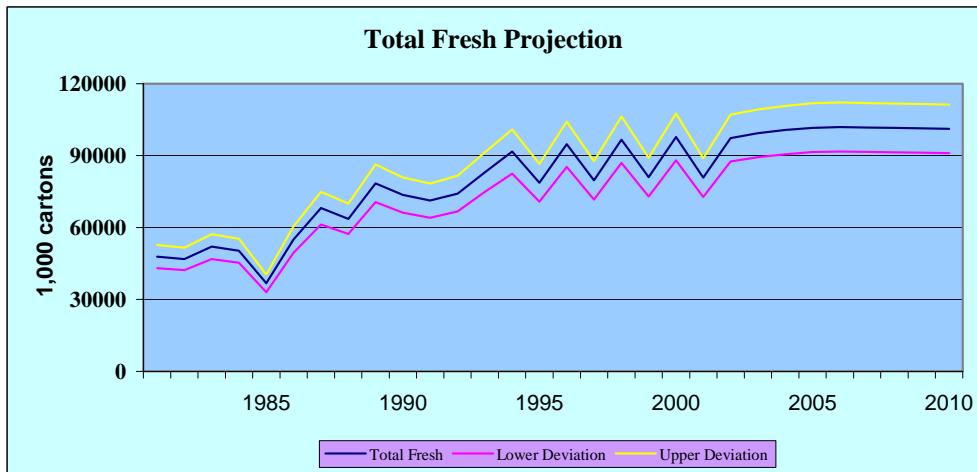
Appendix of Figures

Figure 1: Annual apple production.



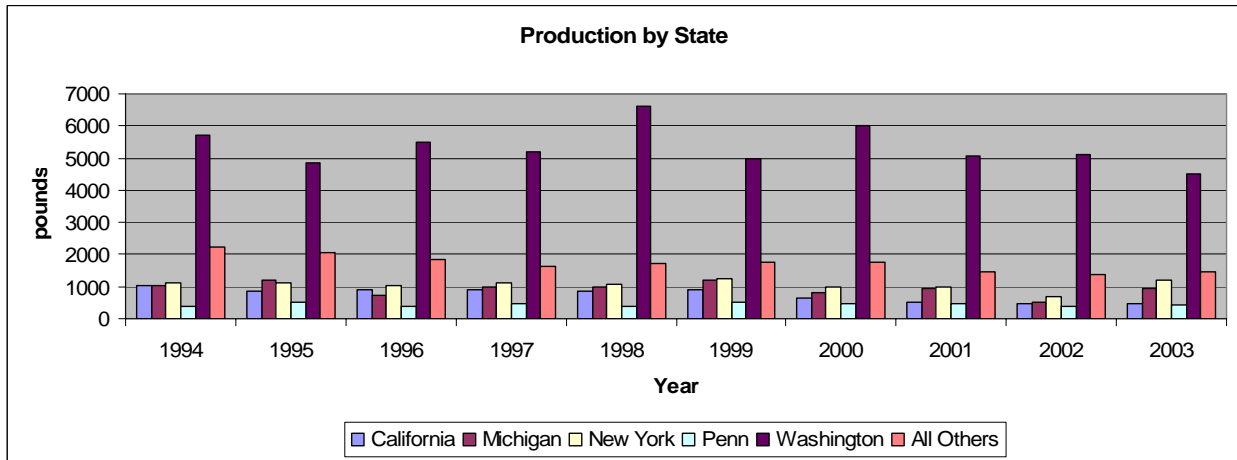
Source: USDA, NASS. Noncitrus Fruits and Nuts. Various issues.

Figure 2: Total fresh projection.



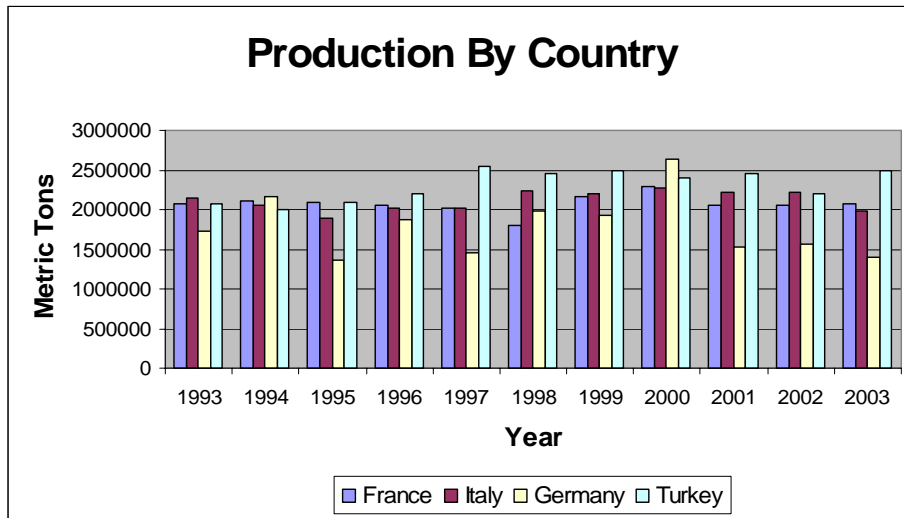
Source: <http://www.agribusiness-mgmt.wsu.edu/AgbusResearch/docs/cropprojection97.xls>.

Figure 3: Production by Washington and other major states.



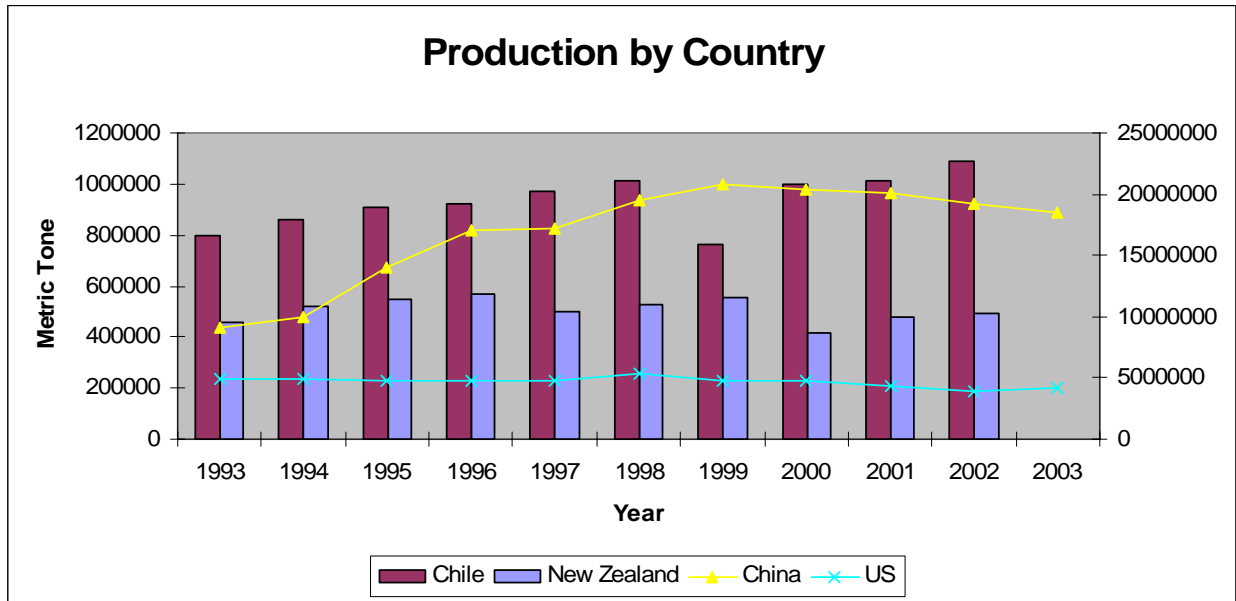
Source: USDA, NASS. Noncitrus Fruits and Nuts. Various issues.

Figure 4A: Production by countries.



Source: USDA, FAS. http://www.fas.usda.gov/psd/complete_tables/HTP-table6-102.htm.

Figure 4B: Production by countries.



Source: USDA, FAS. http://www.fas.usda.gov/psd/complete_tables/HTP-table6-102.htm.

Figure 5: Processing utilization by major state.

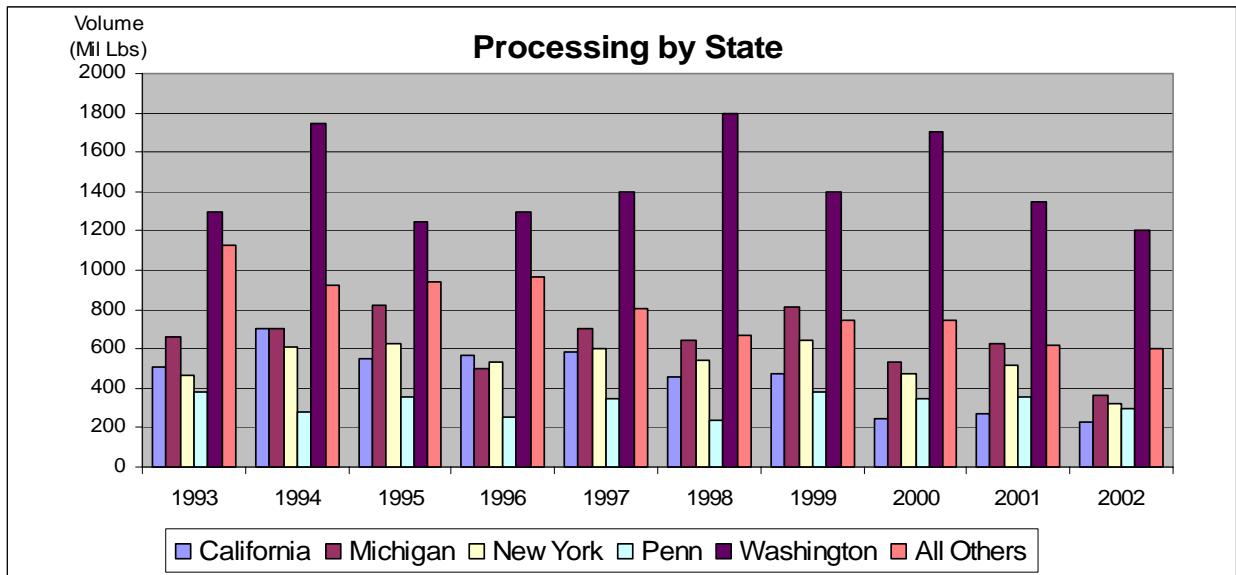
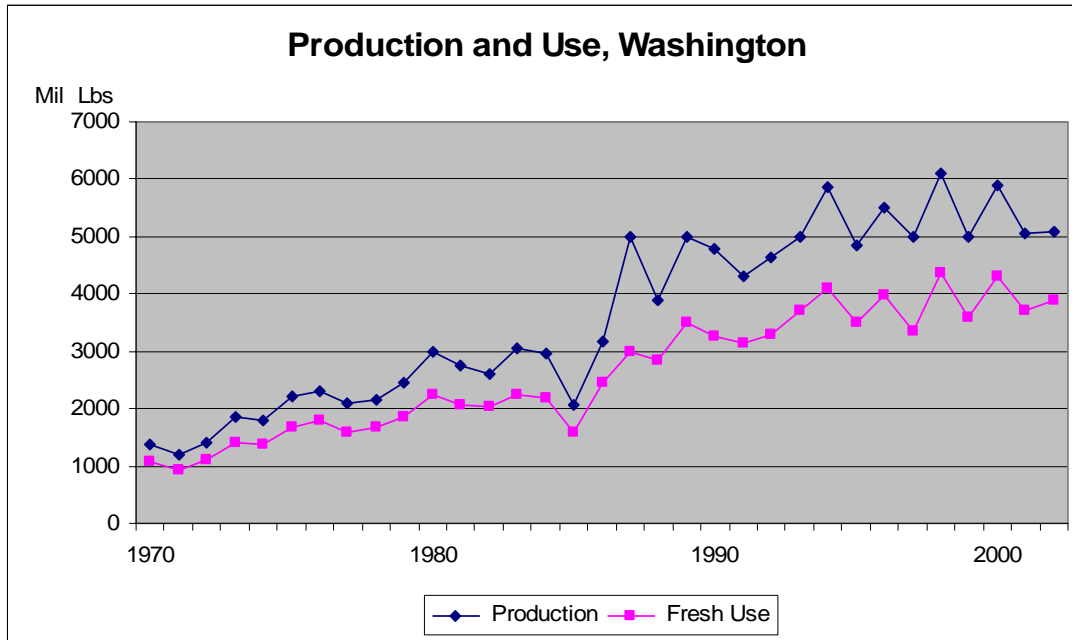
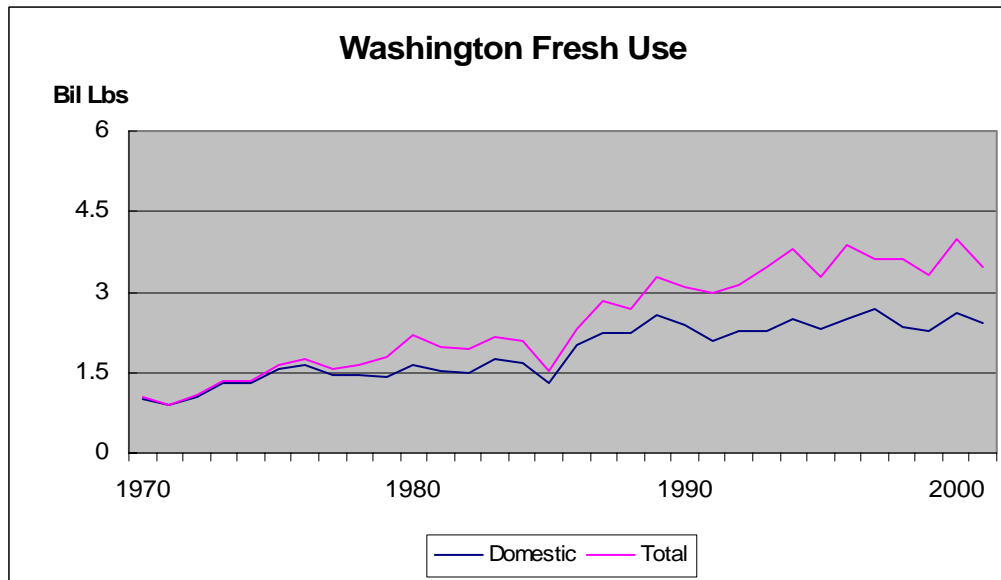


Figure 6: Production and use in Washington.



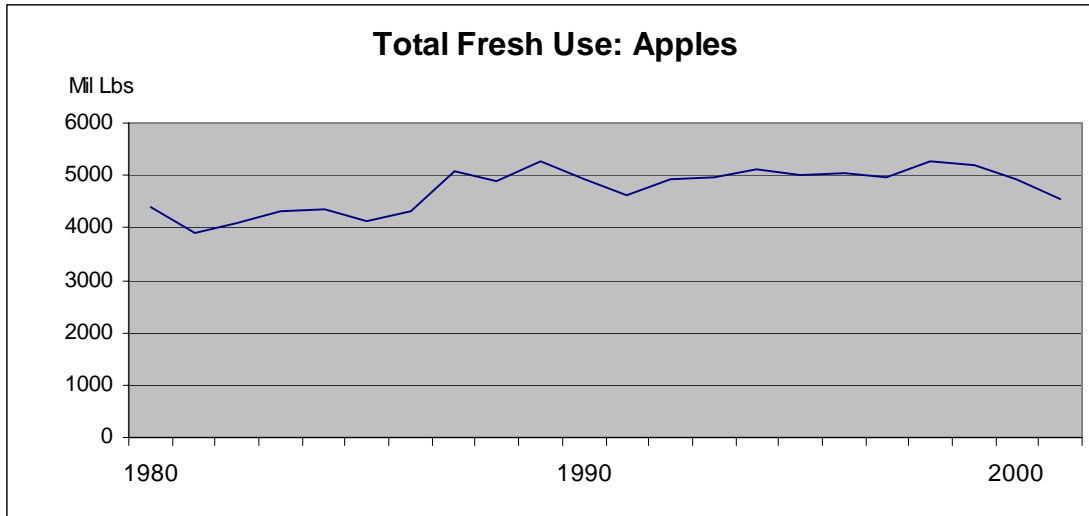
Source: USDA, NASS. *Noncitrus Fruits and Nuts. Various issues.*

Figure 7: Fresh use of Washington apples, measured by fresh shipments.



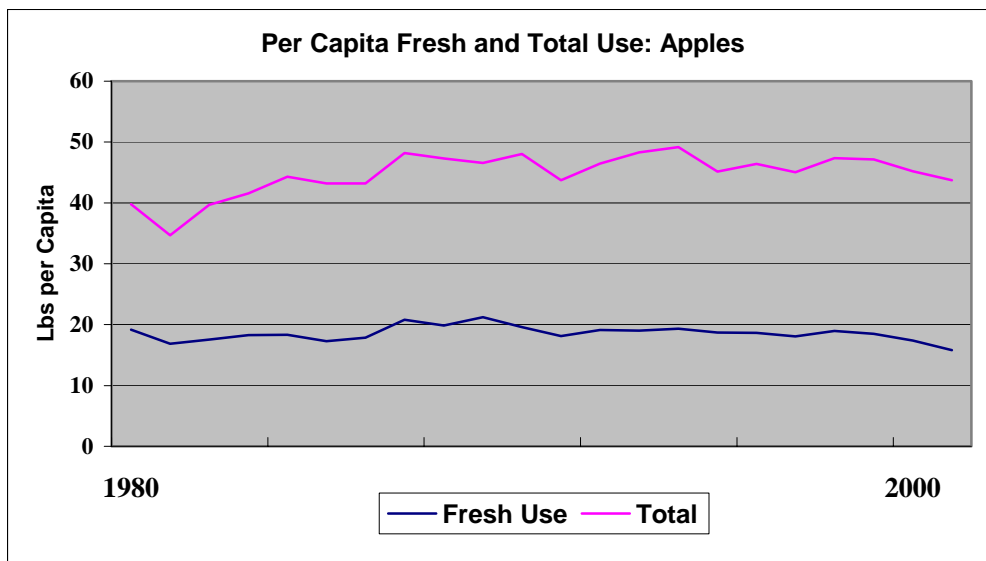
Source: Wenatchee Valley Traffic Association.

Figure 8: Volume by crop year for fresh use of apples in the U.S.



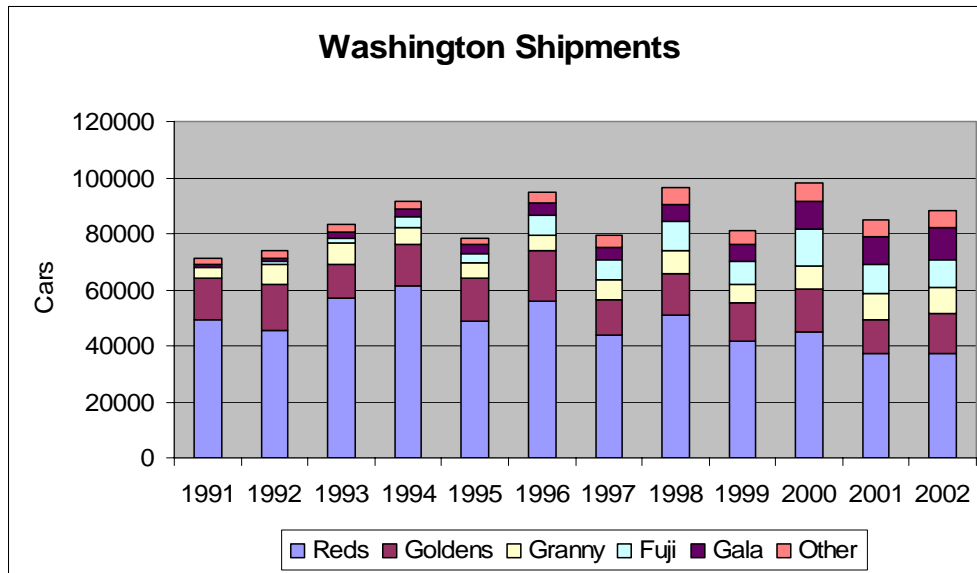
Source: Based on data reported by Foreign Agricultural Service, USDA.

Figure 9: Per capita fresh use and total per capita use of Washington apples.



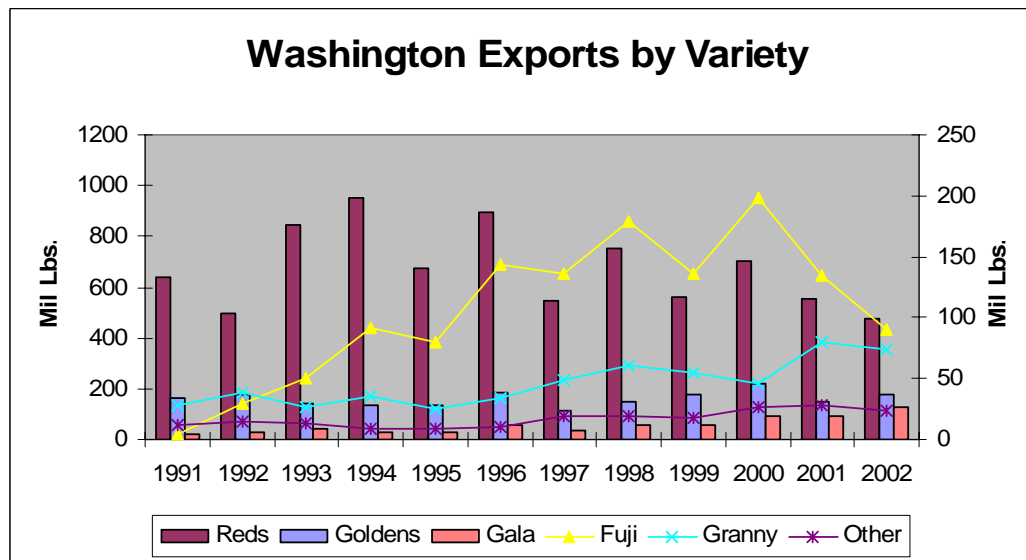
Source: <http://usda.mannlib.cornell.edu/data-sets/specialty/>.

Figure 10: Decrease in industry demand for Red Delicious.



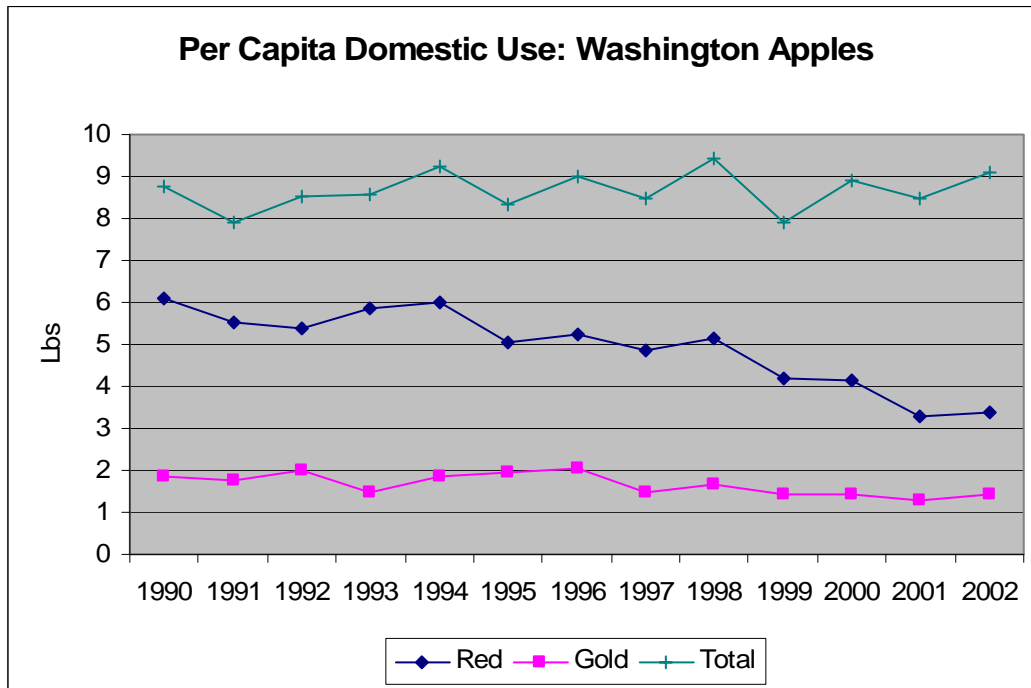
Source: Washington Growers Clearing House Annual Summary, various editions.

Figure 11: Export movement by variety.



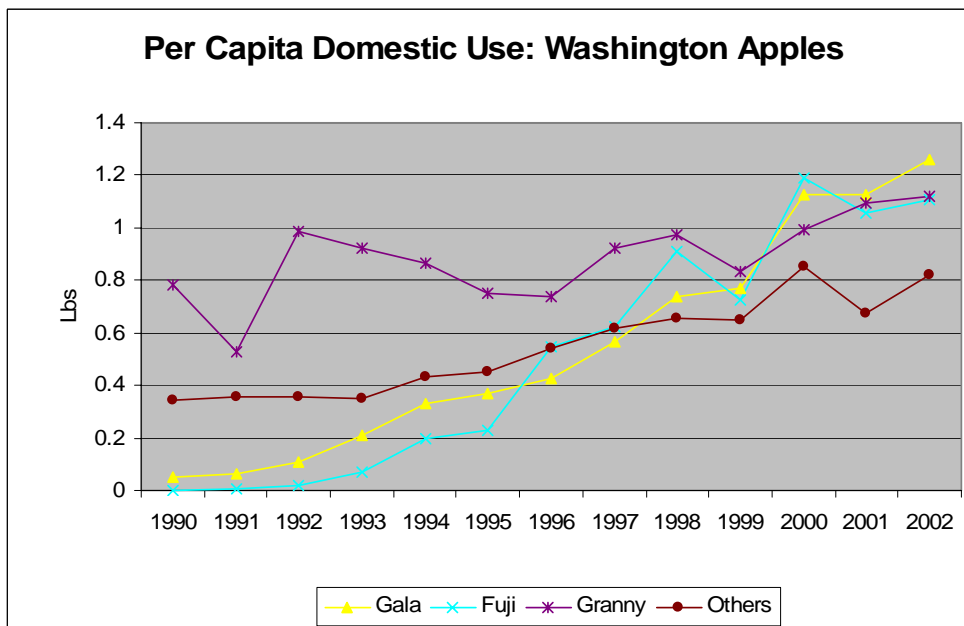
Source: Wenatchee Valley Traffic Association and Washington Apple Commission.

Figure 12: Fresh consumption per capita for Reds, Goldens, and all varieties.



Source: Unpublished industry data.

Figure 13: Growth in per capita domestic movement of newer varieties.



Source: Unpublished industry data.

Figure 14: Per capita apple shipments by region.

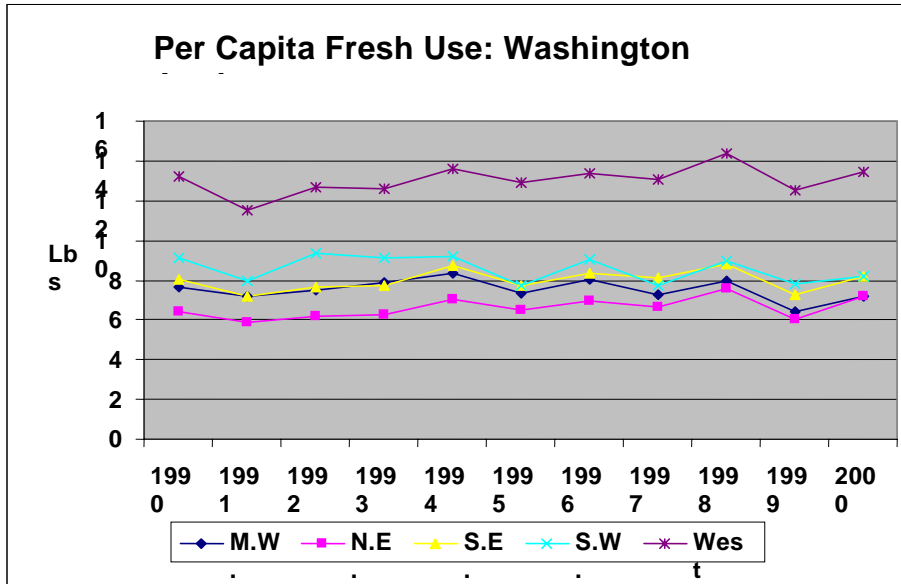
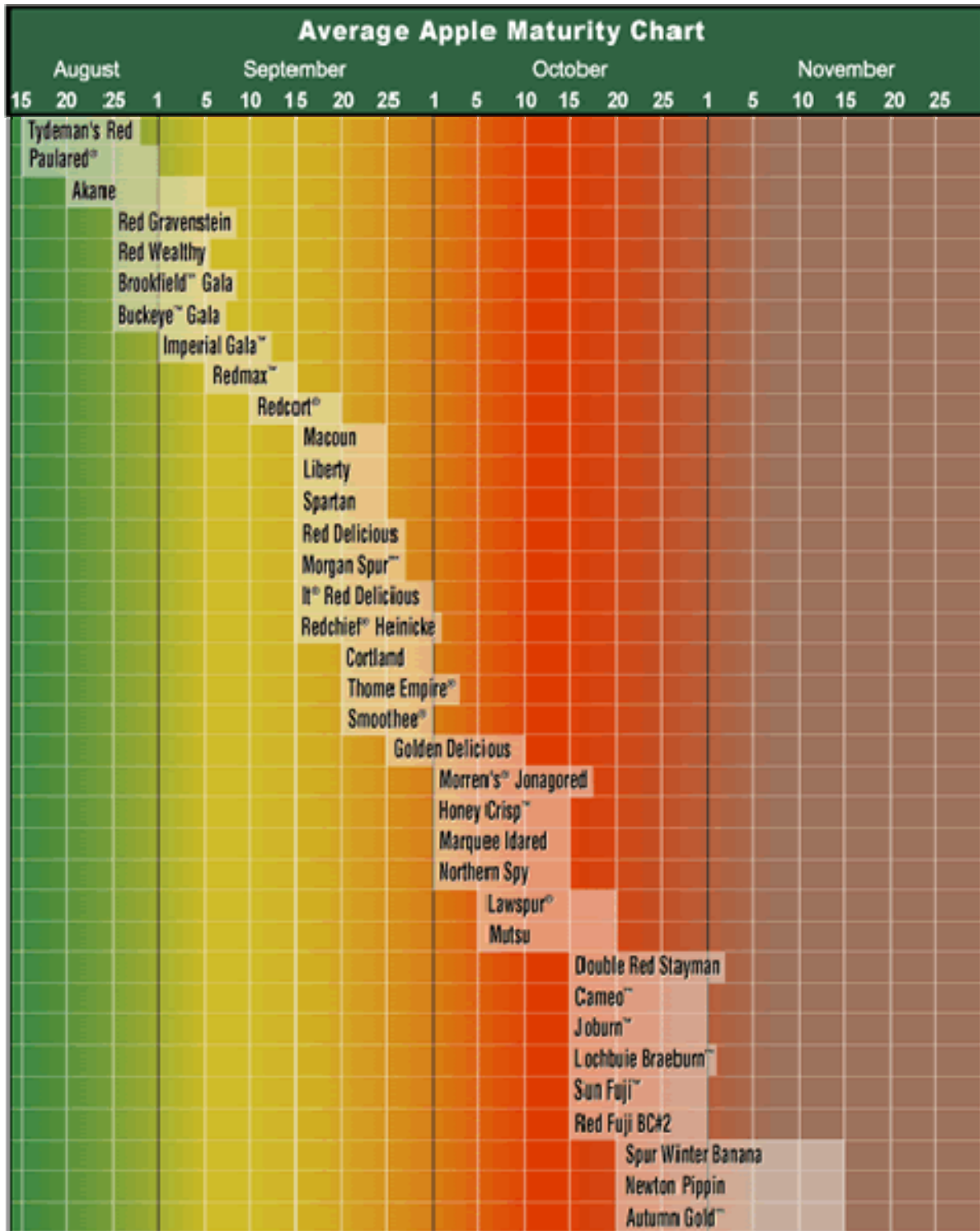


Figure 15: Typical harvest periods for a set of varieties in central Washington.



Source: <http://www.willowdrive.com/>.

Figure 16: Apple production and marketing system.

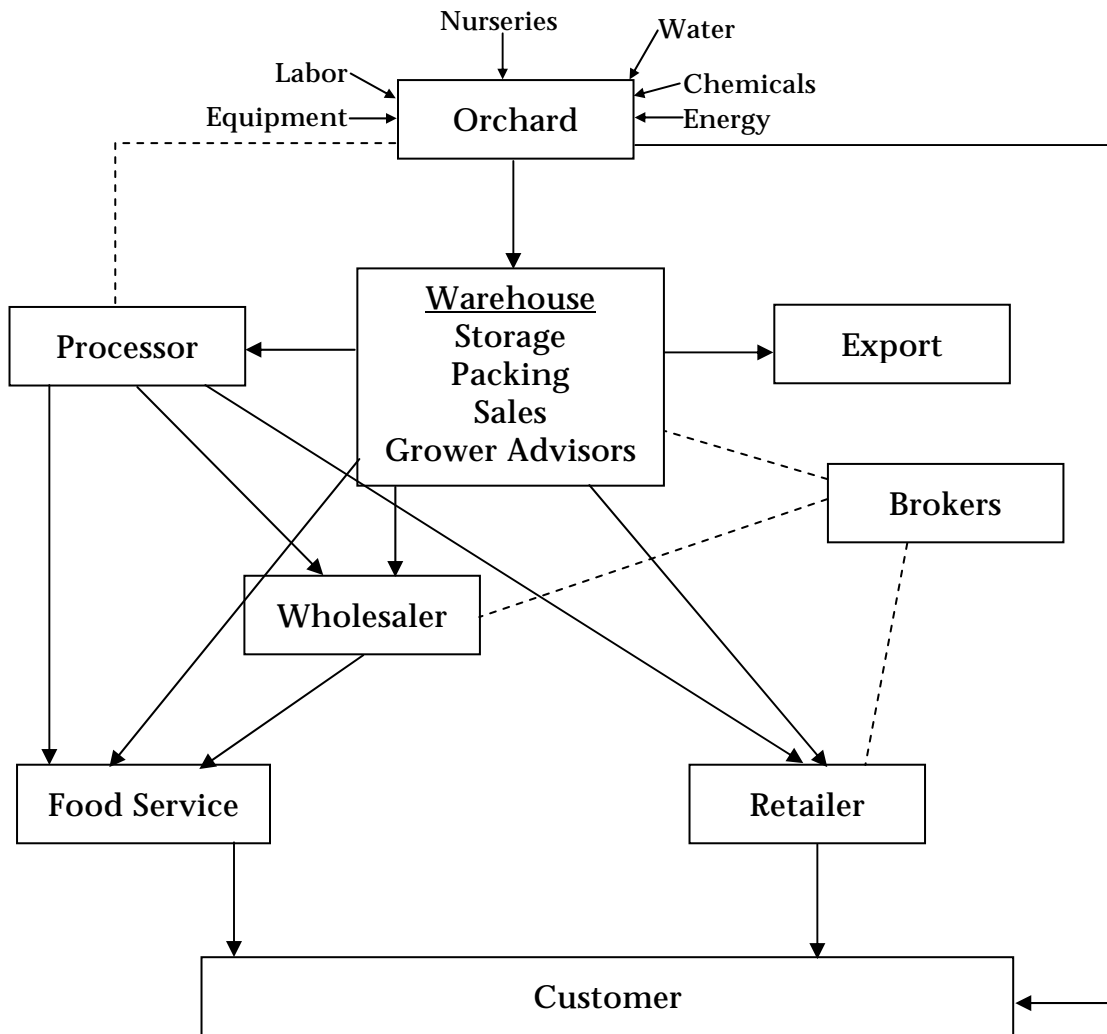
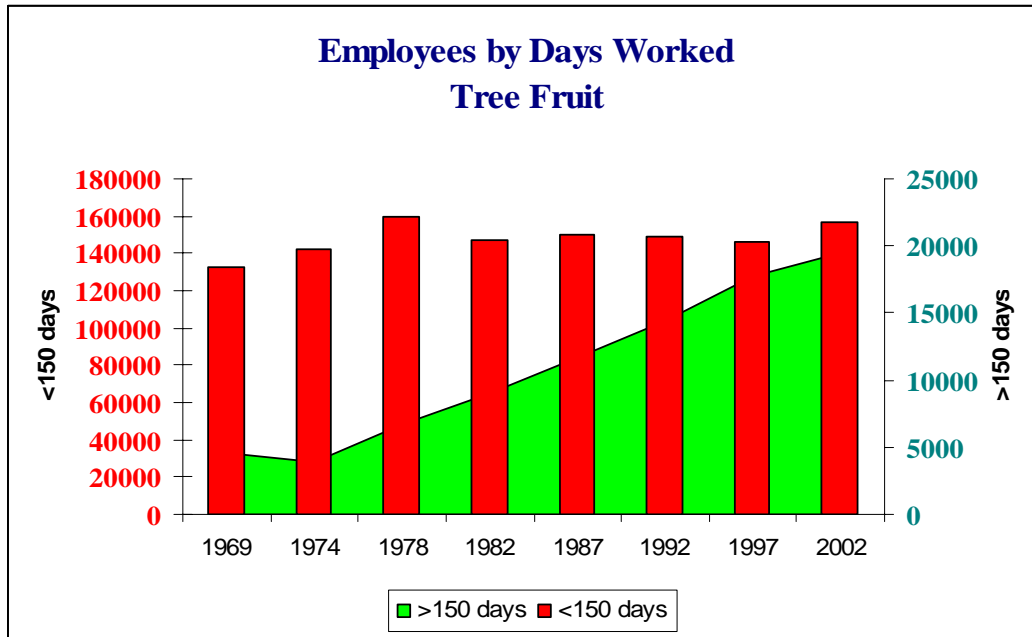
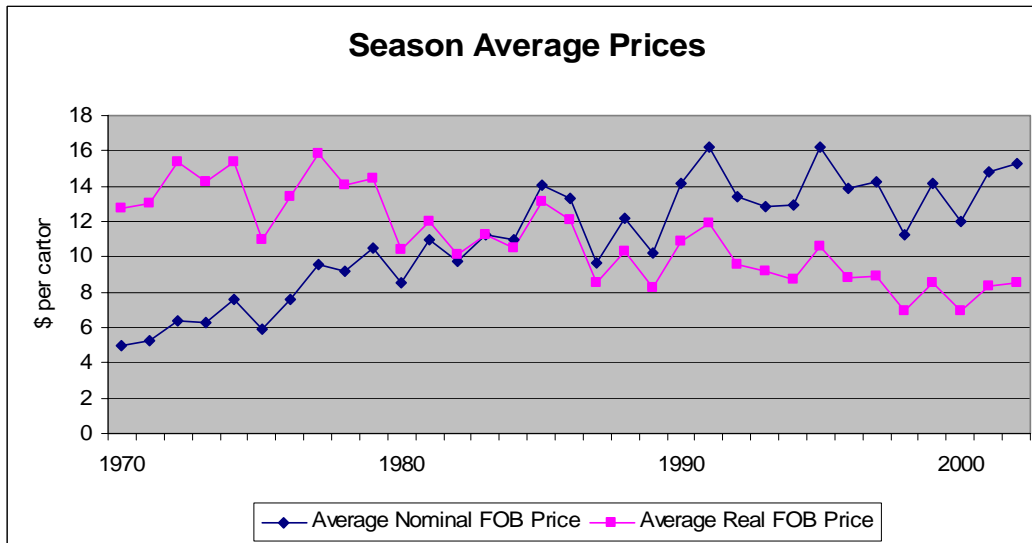


Figure 17: Number of orchard employees by number of days worked.



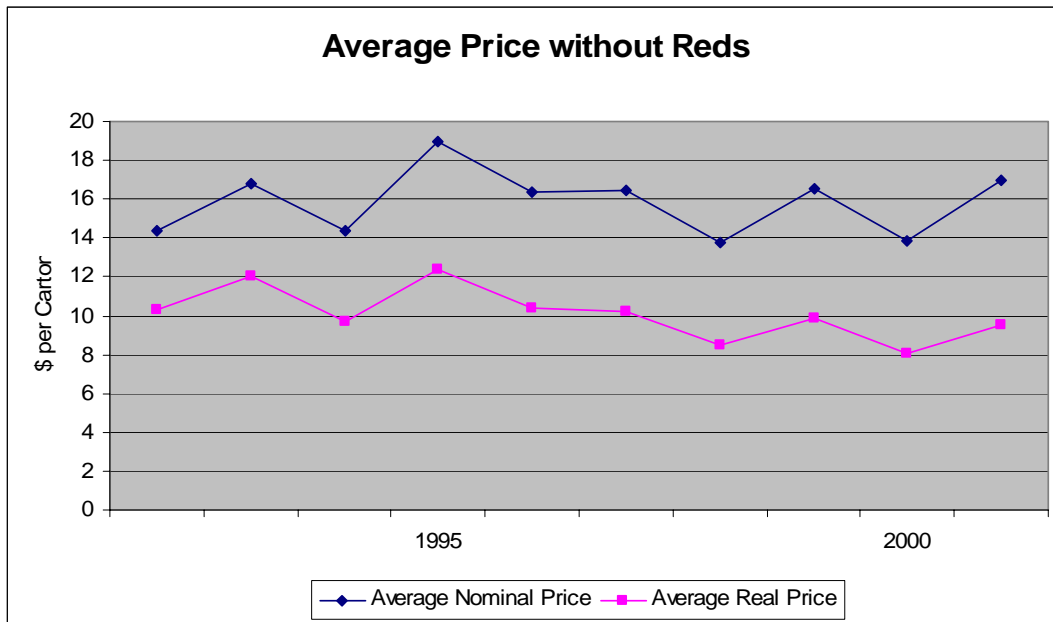
Source: Census of Agriculture, various years.

Figure 18: Seasonal real and nominal prices.



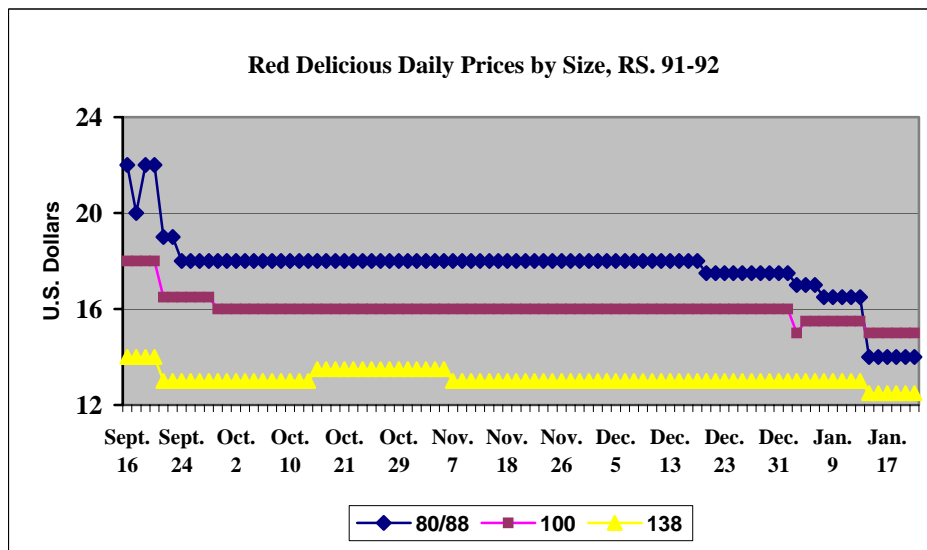
Source: Washington Growers Clearing House.

Figure 19: Average prices without Reds.



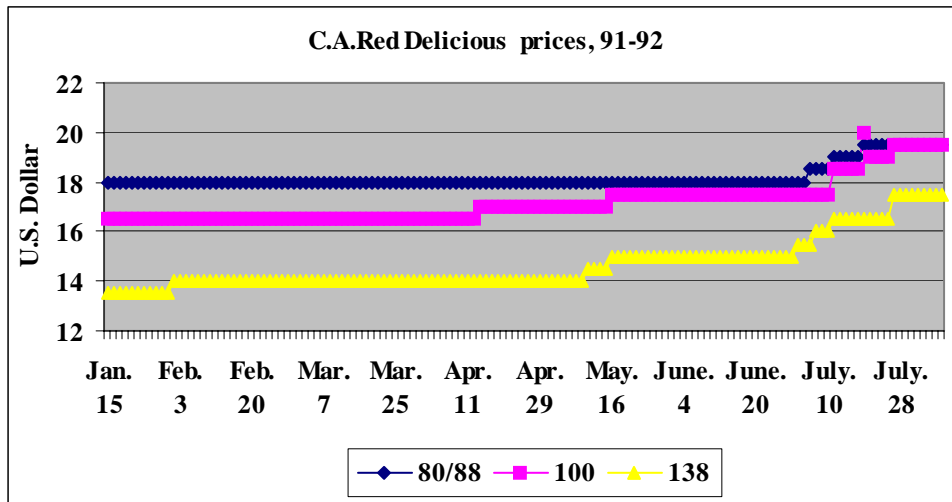
Source: *Ibid.*

Figure 20: Regular storage Red Delicious prices, 1991-1992.



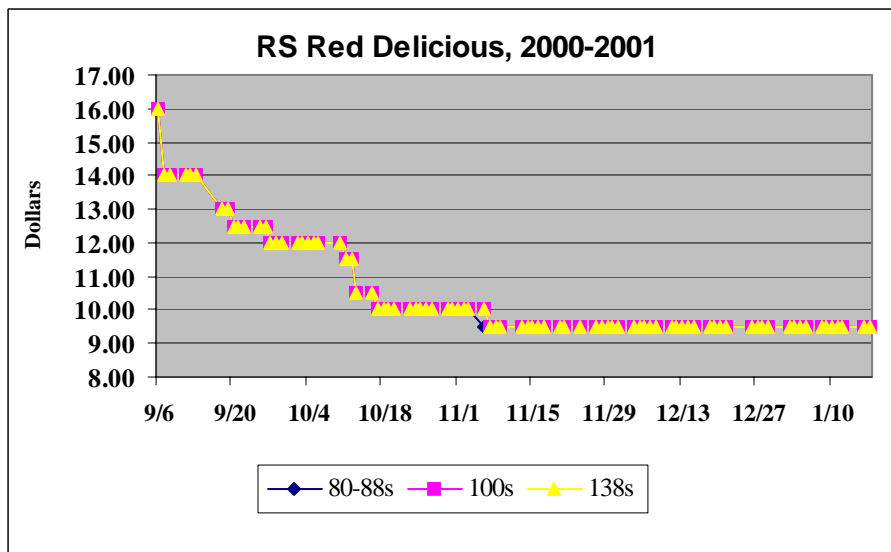
Source: *USDA, AMS, MNS Daily Price Reports.*

Figure 21: CA Red Delicious prices, 1991-92.



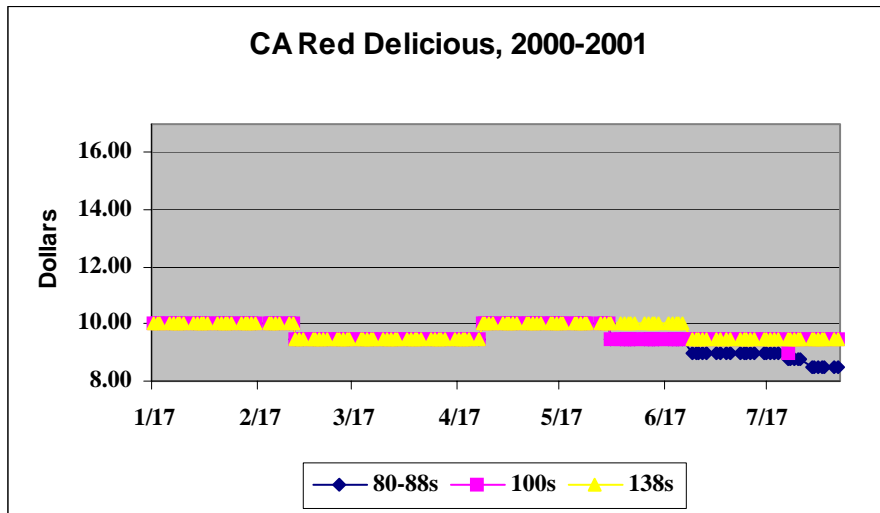
Source: USDA, AMS, MNS Daily Price Reports.

Figure 22: Regular storage for Red Delicious, 2000-2001.



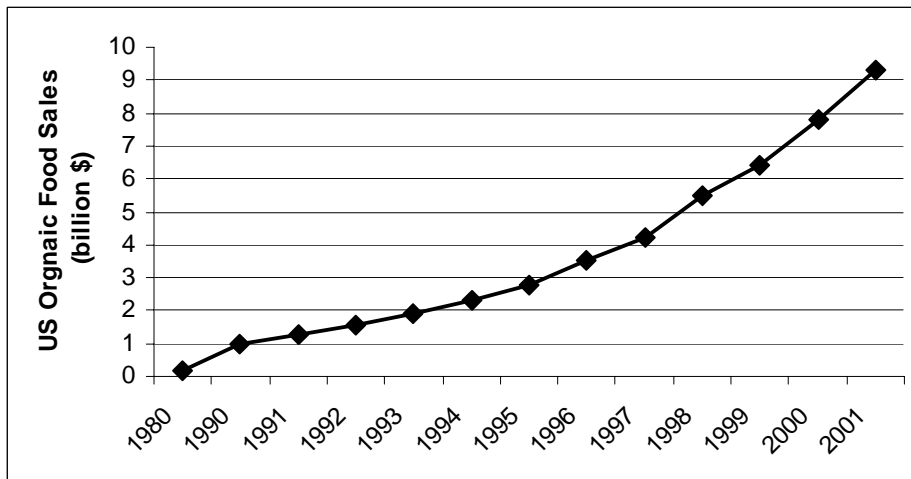
Source: *Ibid.*

Figure 23: CA storage for Red Delicious, 2000-2001.



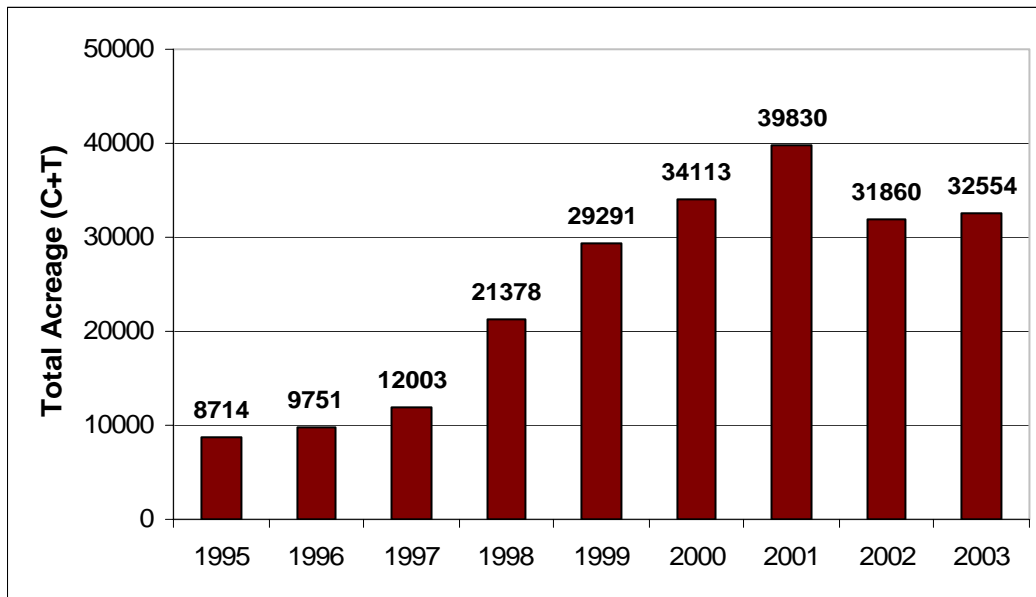
Source: *Ibid.*

Figure 24: Organic food sales at retail in the U.S.



Source: Organic Trade Association.

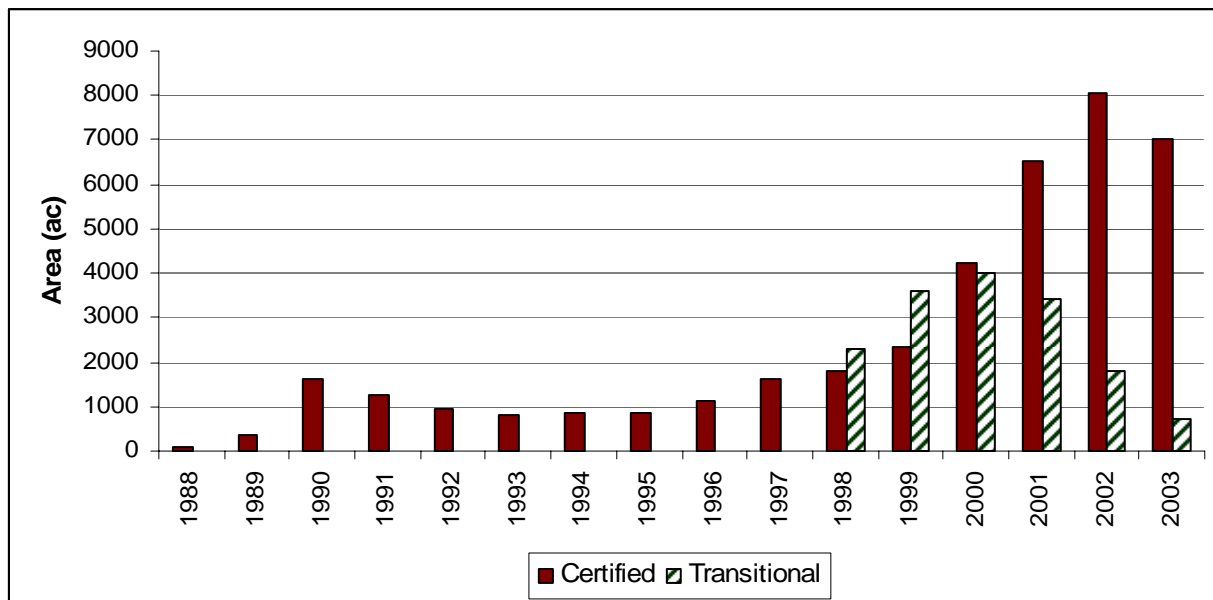
Figure 25: Trends in organic farm acres (certified plus transition) in Washington State.**



* 2002 Change in data source.

**Unpublished data. Source: Washington Dept. of Agriculture Organic Food Program.

Figure 26: Growth of organic apple acreage in Washington State.**



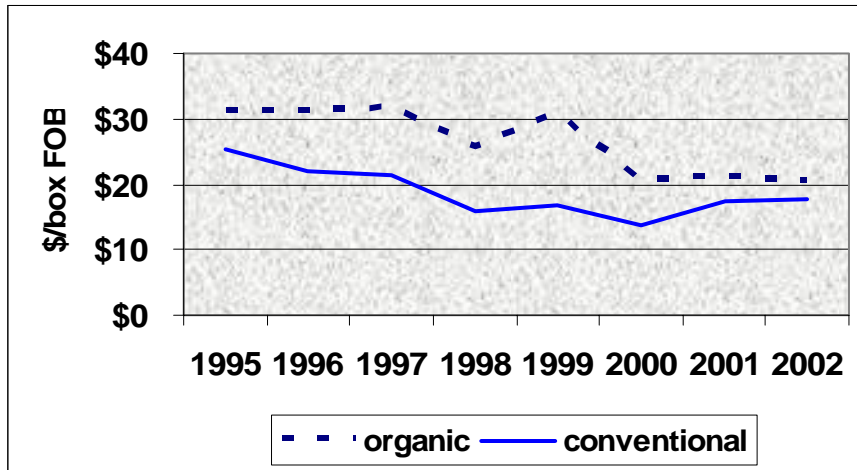
* 1999 - Alar

1994 – Mating disruption

** Updated the original figure from: Granatstein, D. and E. Kirby. 2002. "Current Trends in Organic Tree Fruit Production." CSANR Report No. 4, WSU.

http://wrganic.tfrec.wsu.edu/OrganicFP/OrganicFruitProduction/current_trends.pdf

Figure 27: Price trends for organic and conventional Gala apples in Washington State.*



* Updated the original figure from: Granatstein, D. and E. Kirby. 2002. "Current Trends in Organic Tree Fruit Production." CSANR Report No. 4, WSU. http://wrganic.tfrec.wsu.edu/OrganicIFP/OrganicFruitProduction/current_trends.pdf.

Figure 28: Washington warehouse shares.

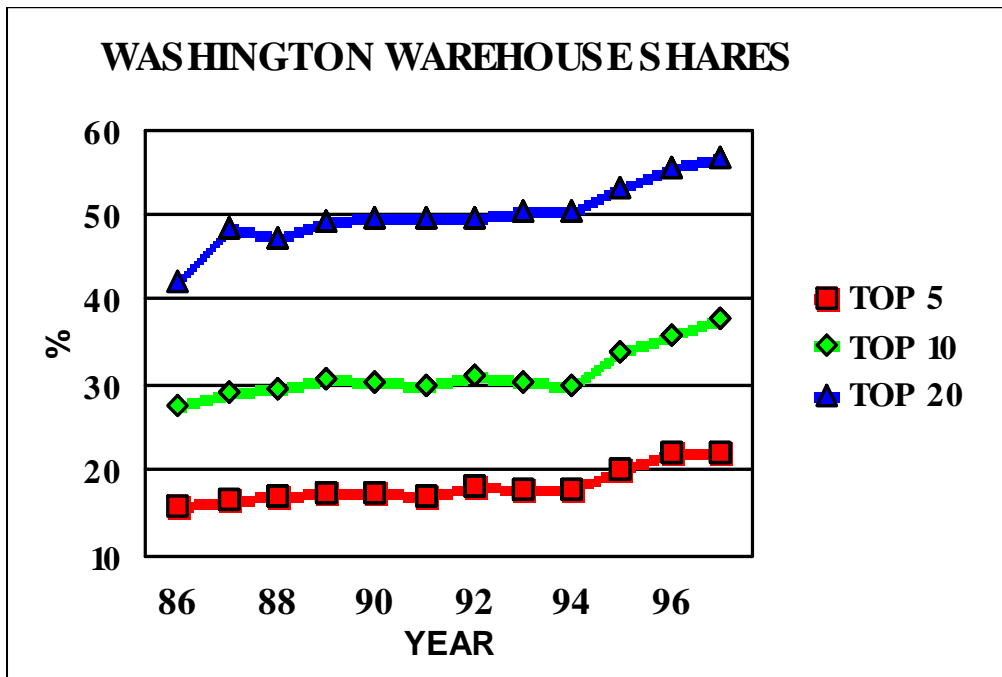


Figure 29: Projected warehouse shares.

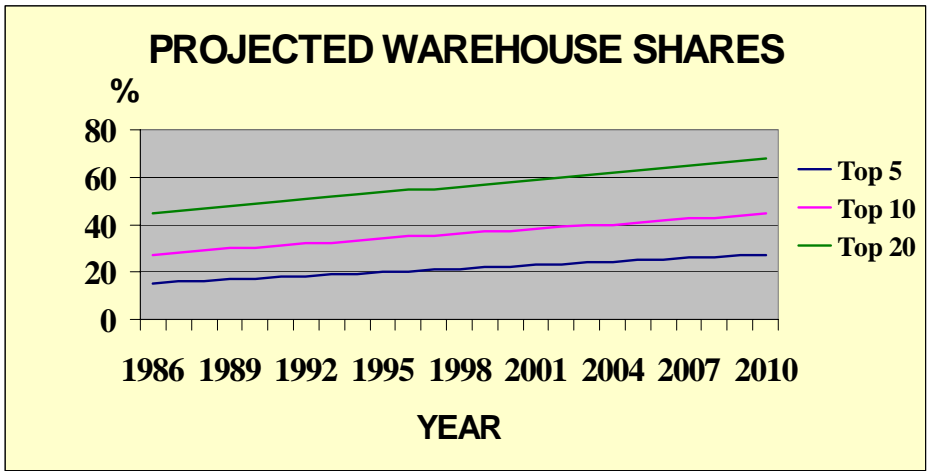


Figure 30: Estimated packing cost relationships. System: conventional versus presize (small, medium and large).

