

A dense forest of tall evergreen trees, likely spruce or fir, filling the frame. The trees are lush green and reach towards a clear blue sky. The perspective is from a slightly elevated position, looking down into the forest canopy.

# **Future Forests II**

**Trends in the Forest Products Industry**

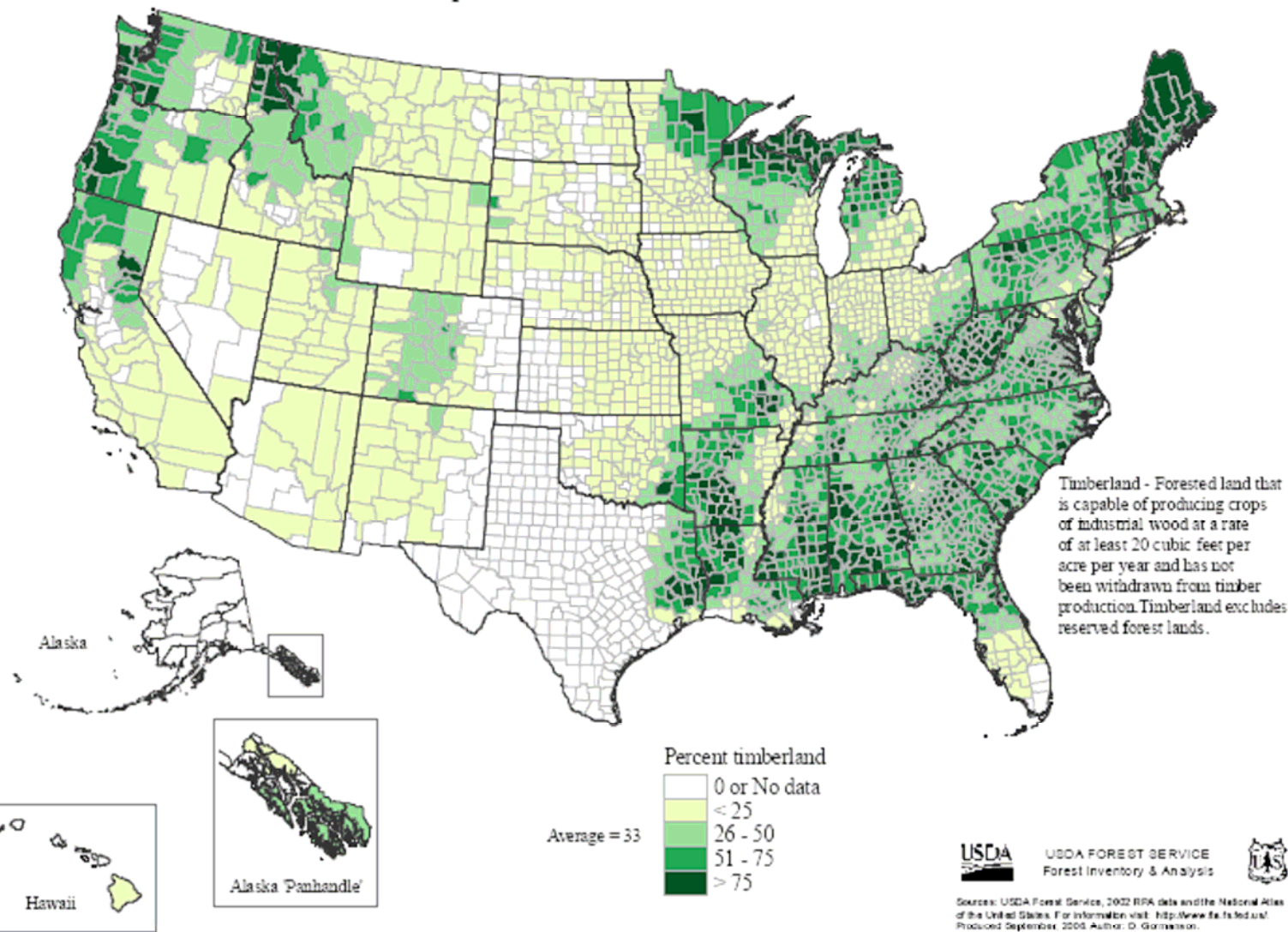
**Russ Forsburg**

**American AgCredit**

*“When one tugs at a single thing in nature, he finds it attached to the rest of the world.”*

John Muir

## Proportion of Land that is Timberland



# Pacific Northwest Forests



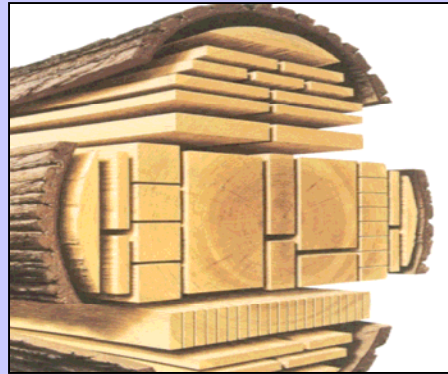
# Southern Forests



# Northeastern Forests



# FOREST PRODUCTS SECTORS



LUMBER

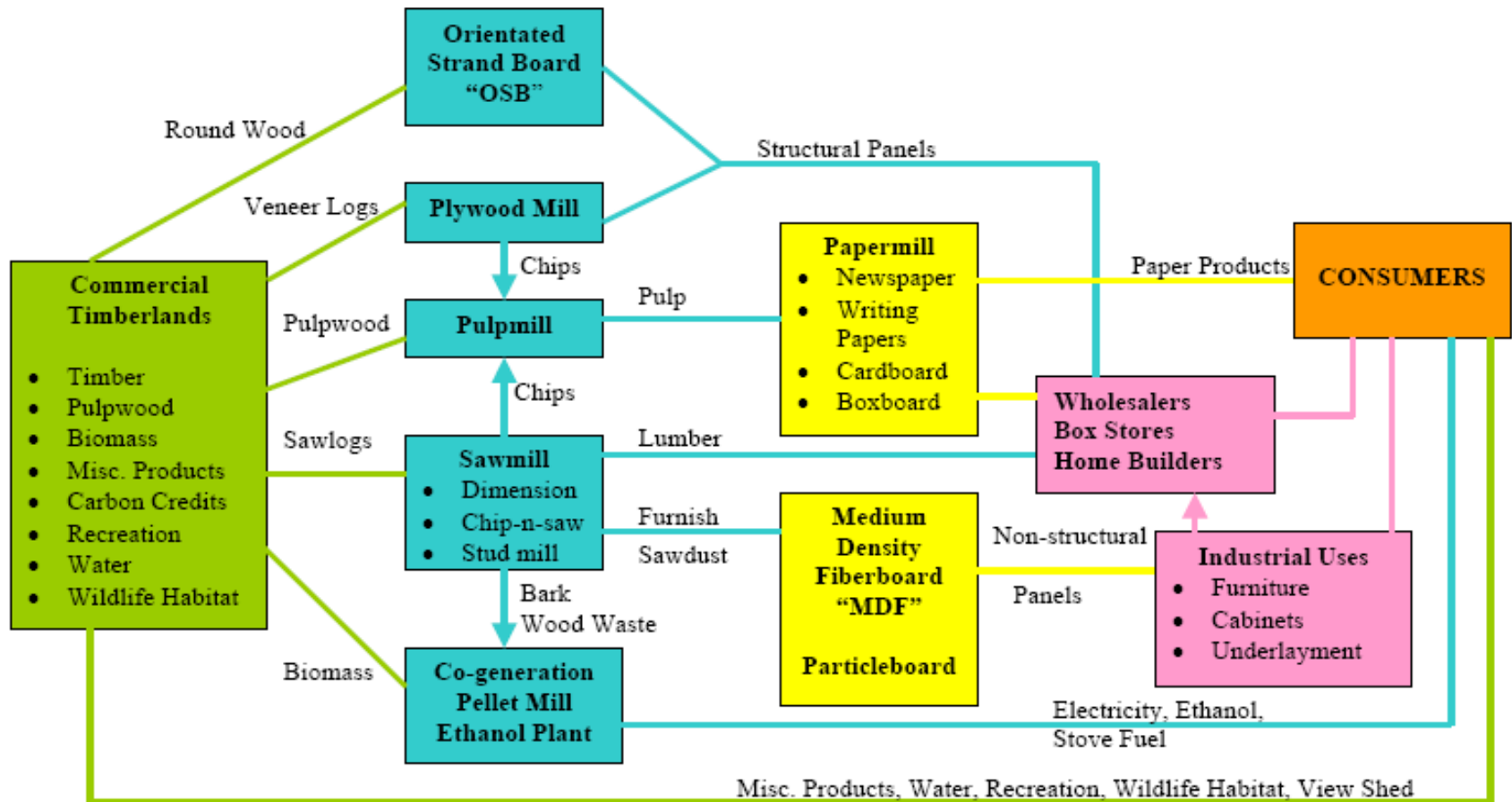


PANELS



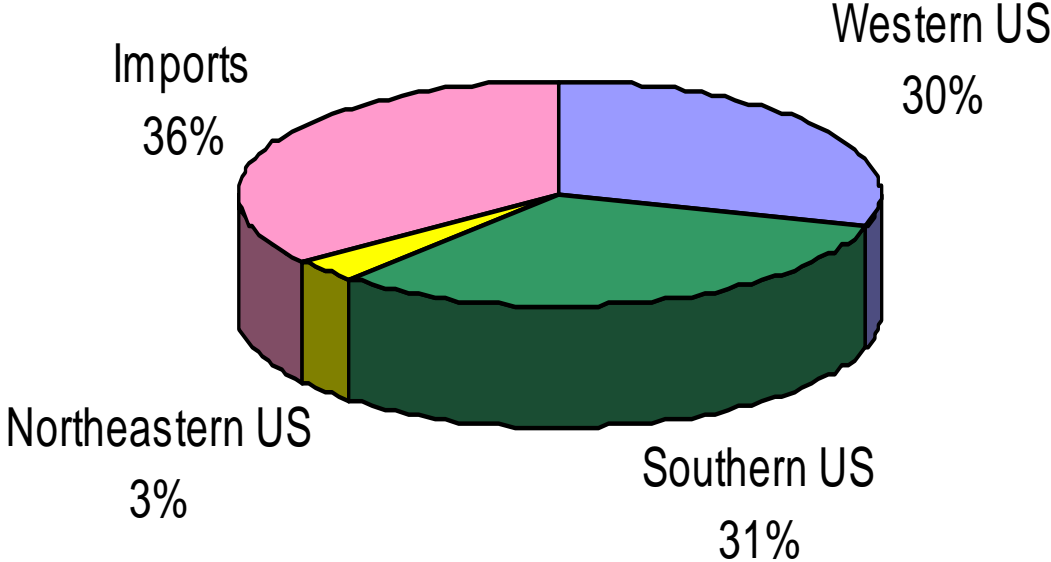
PULP/PAPER

## The Production of Forest Products From Timberlands to the Consumer

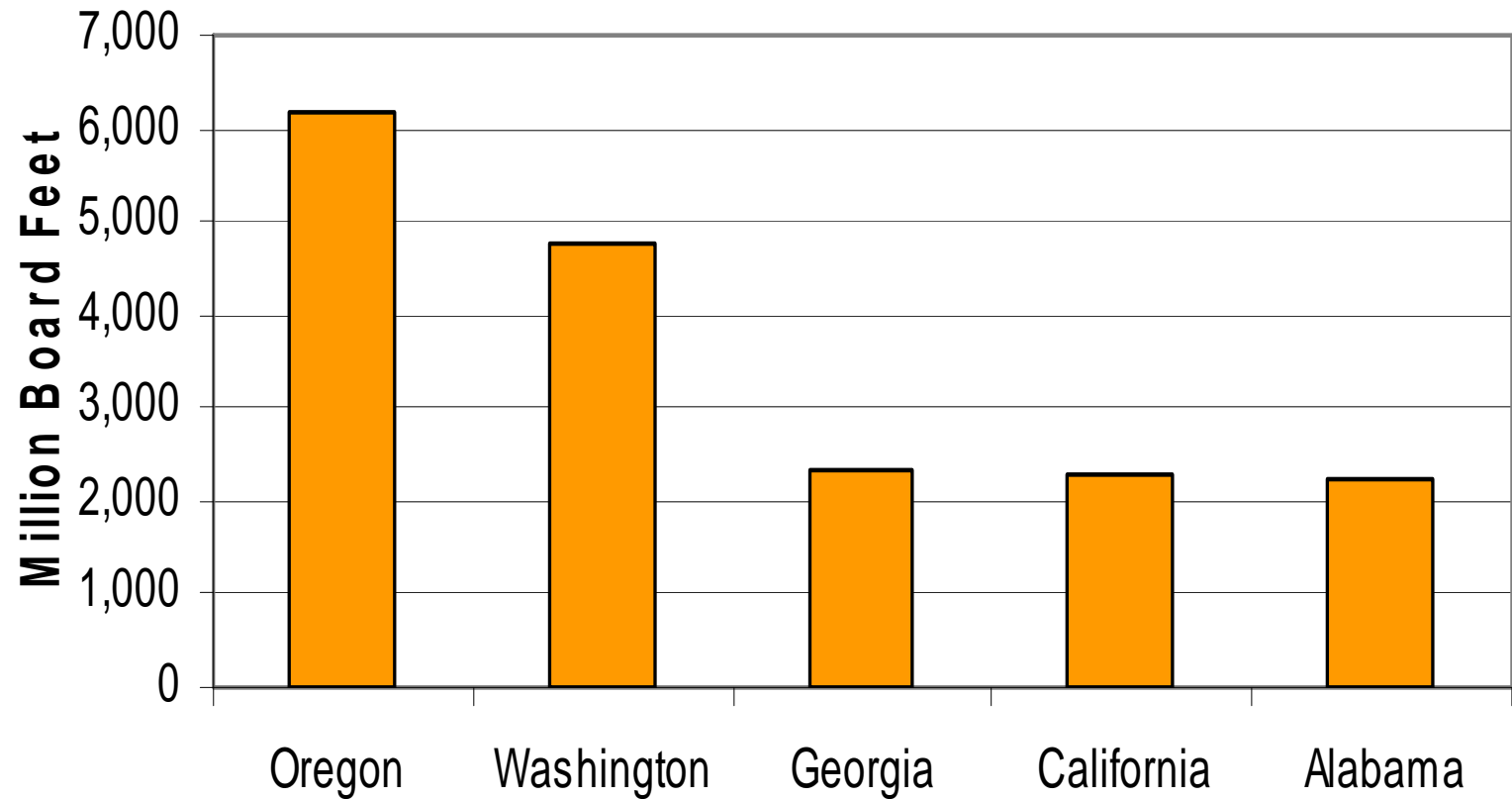




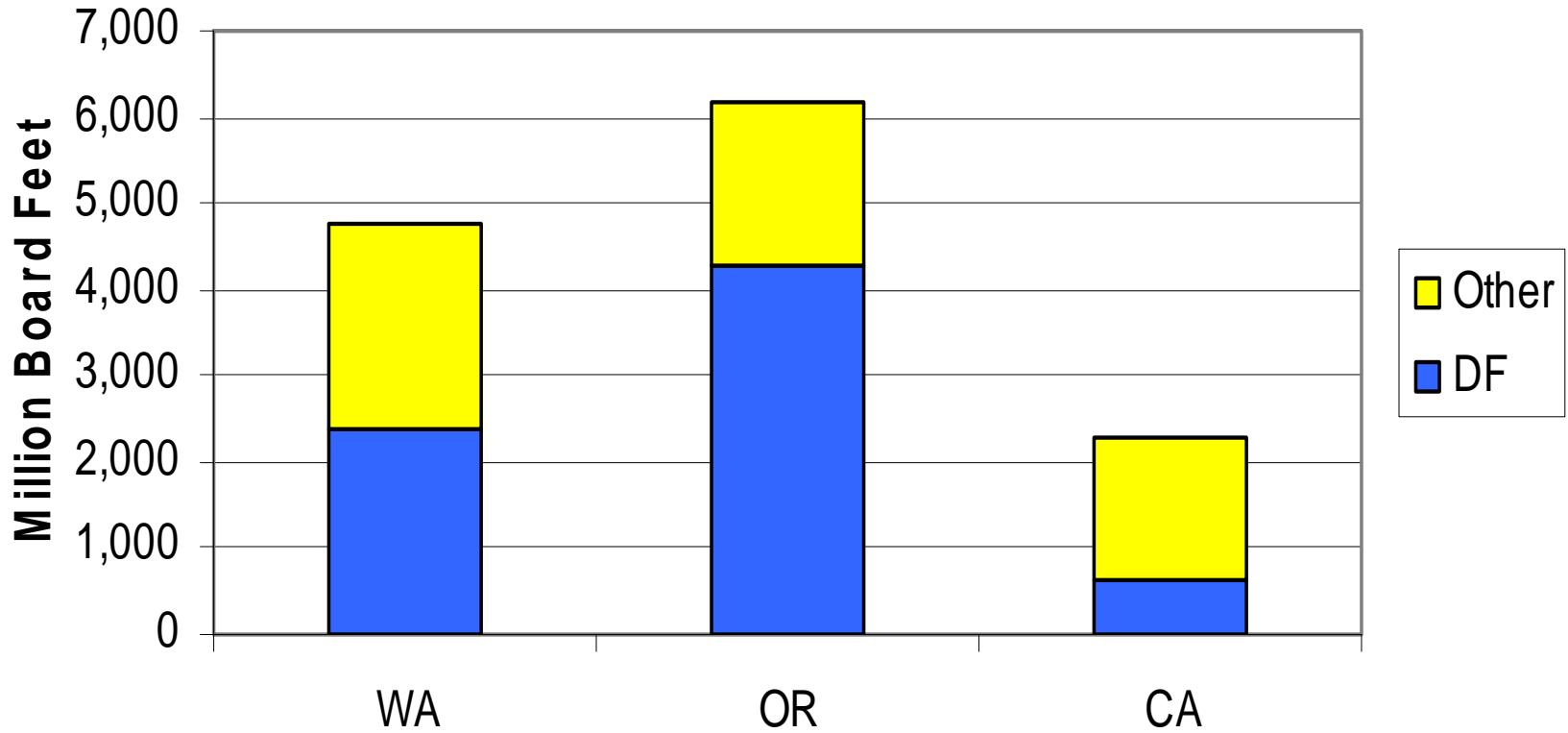
# Sources of Lumber to US



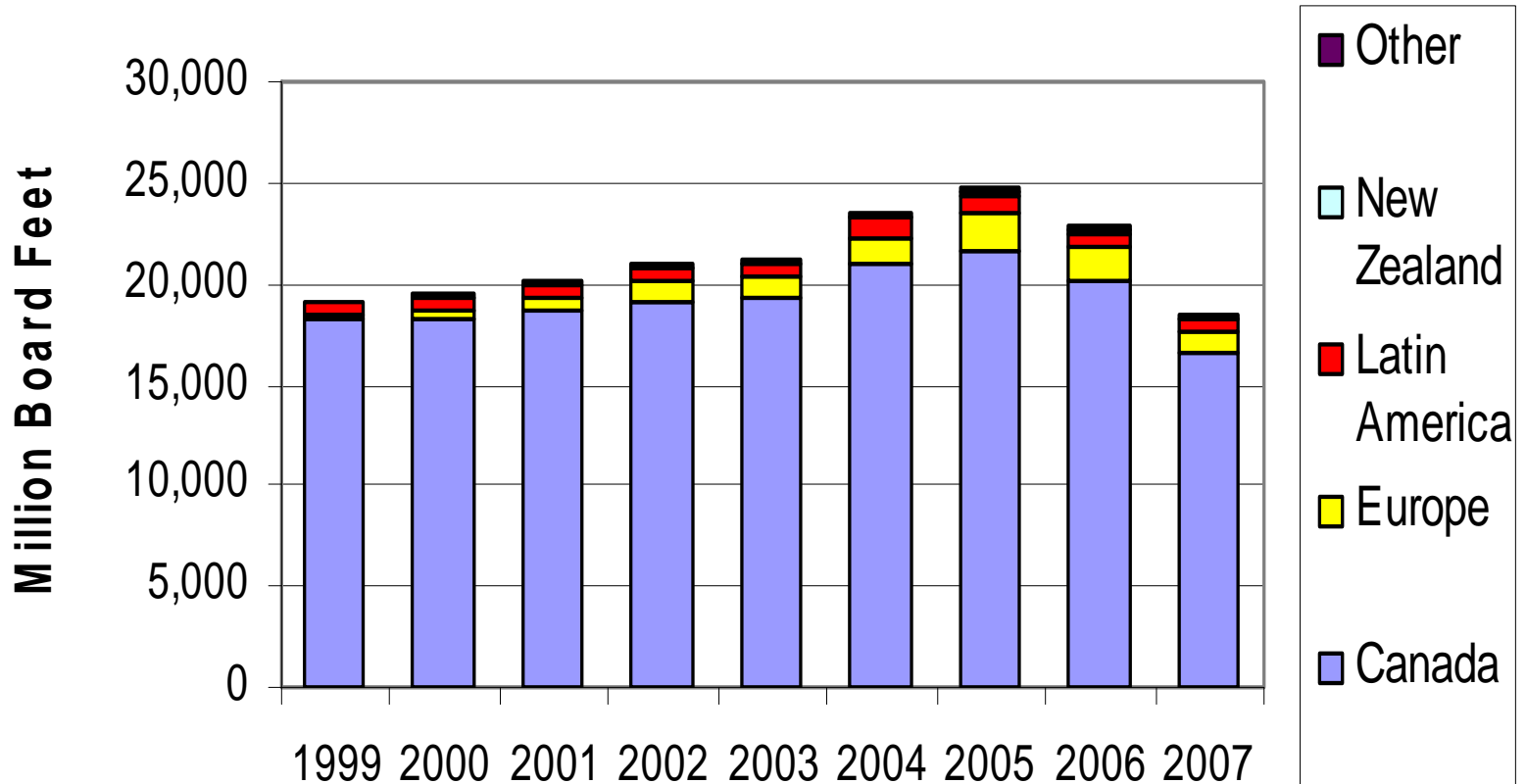
## Top 5 Lumber Producing States 2007



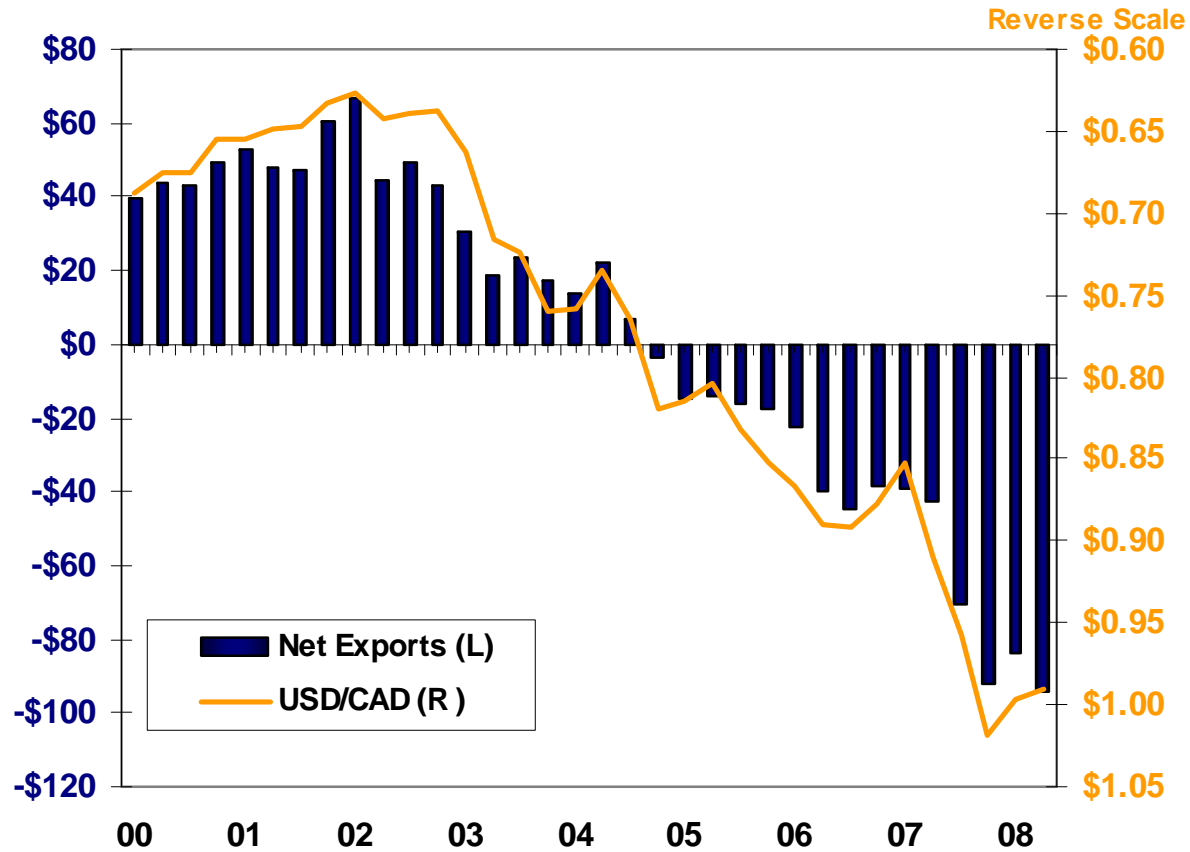
# Lumber Production in the PNW



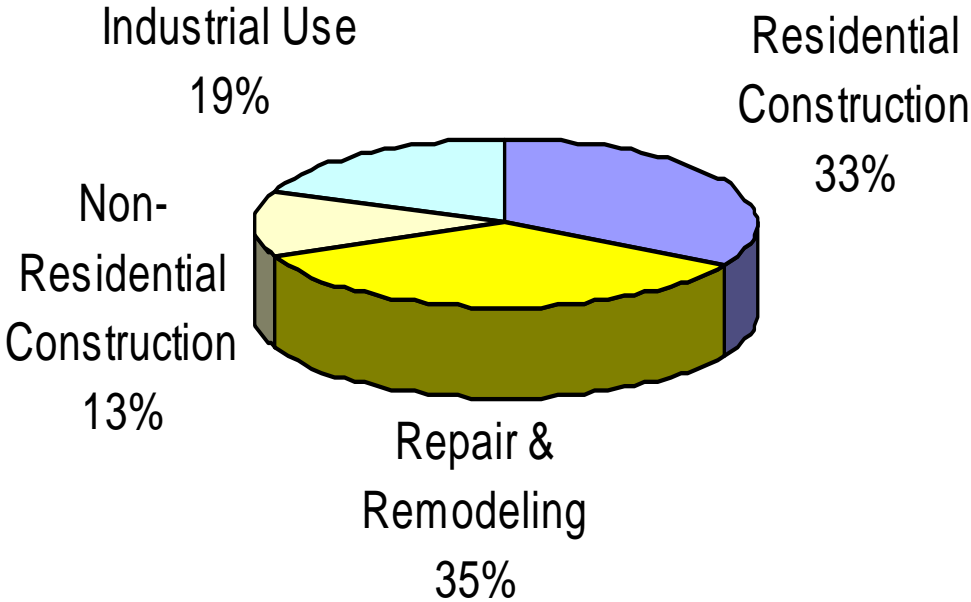
## Softwood Lumber Imports



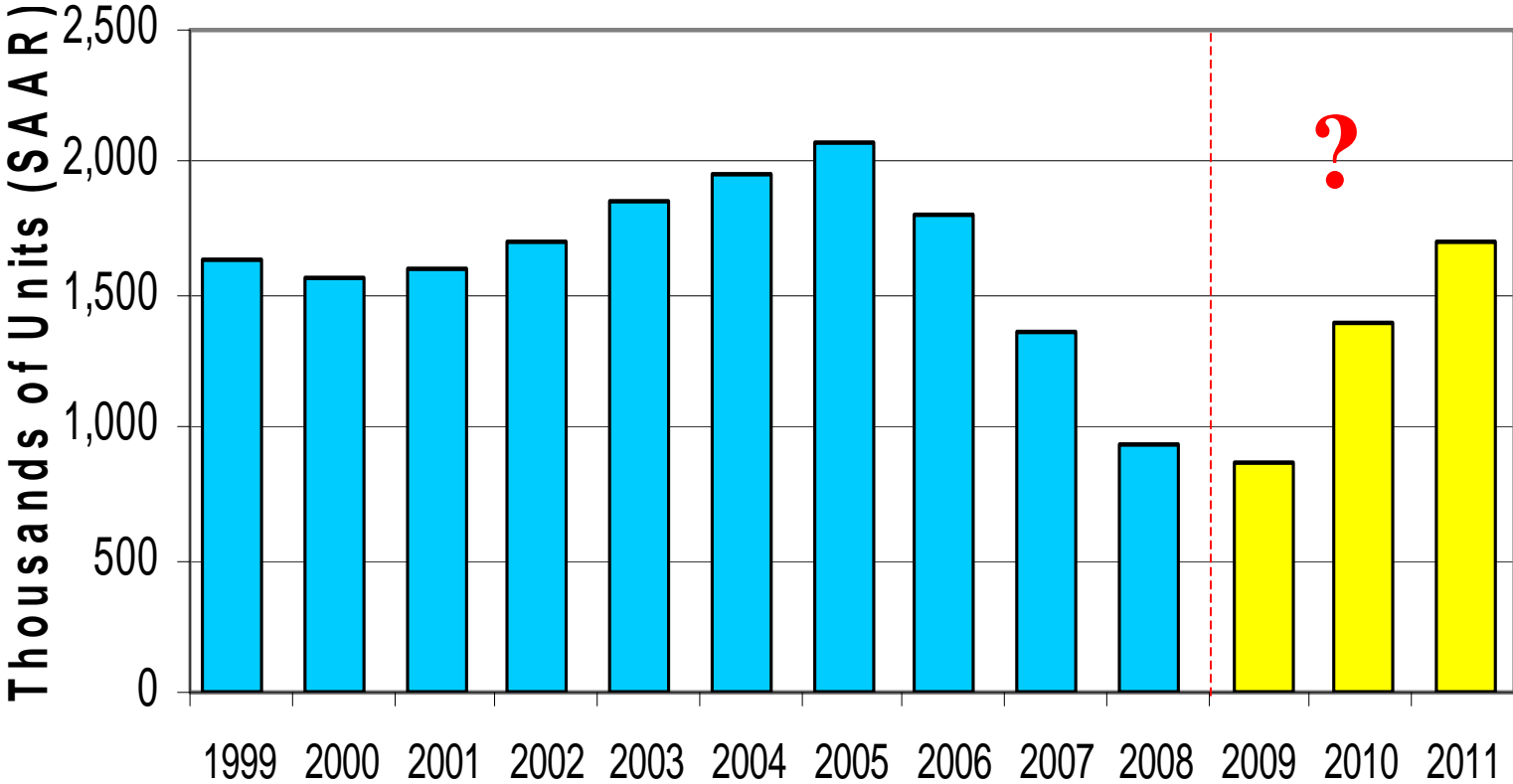
# The Strong Canadian Dollar Has Impacted Exports from Canada



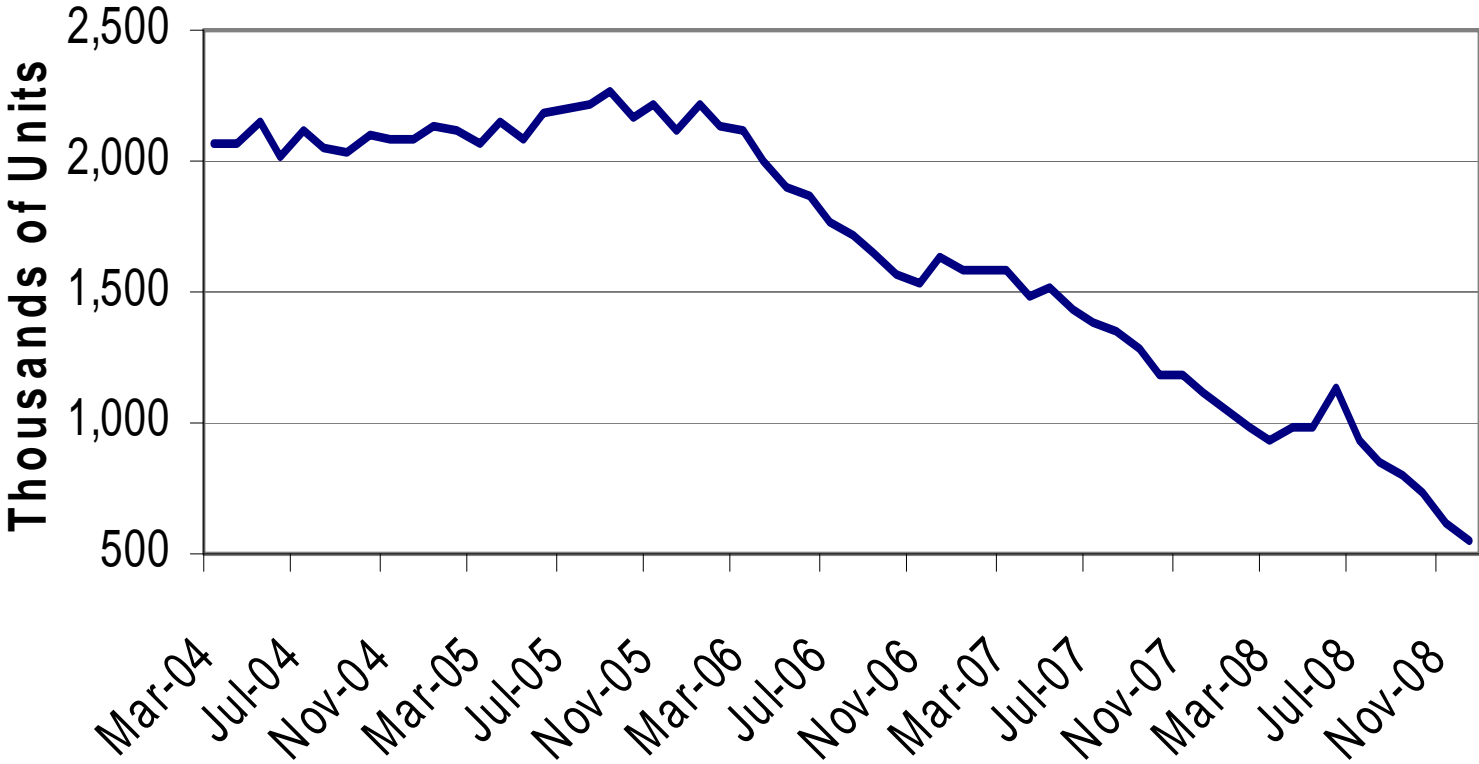
# Total US Softwood Lumber Consumption



# Housing Starts

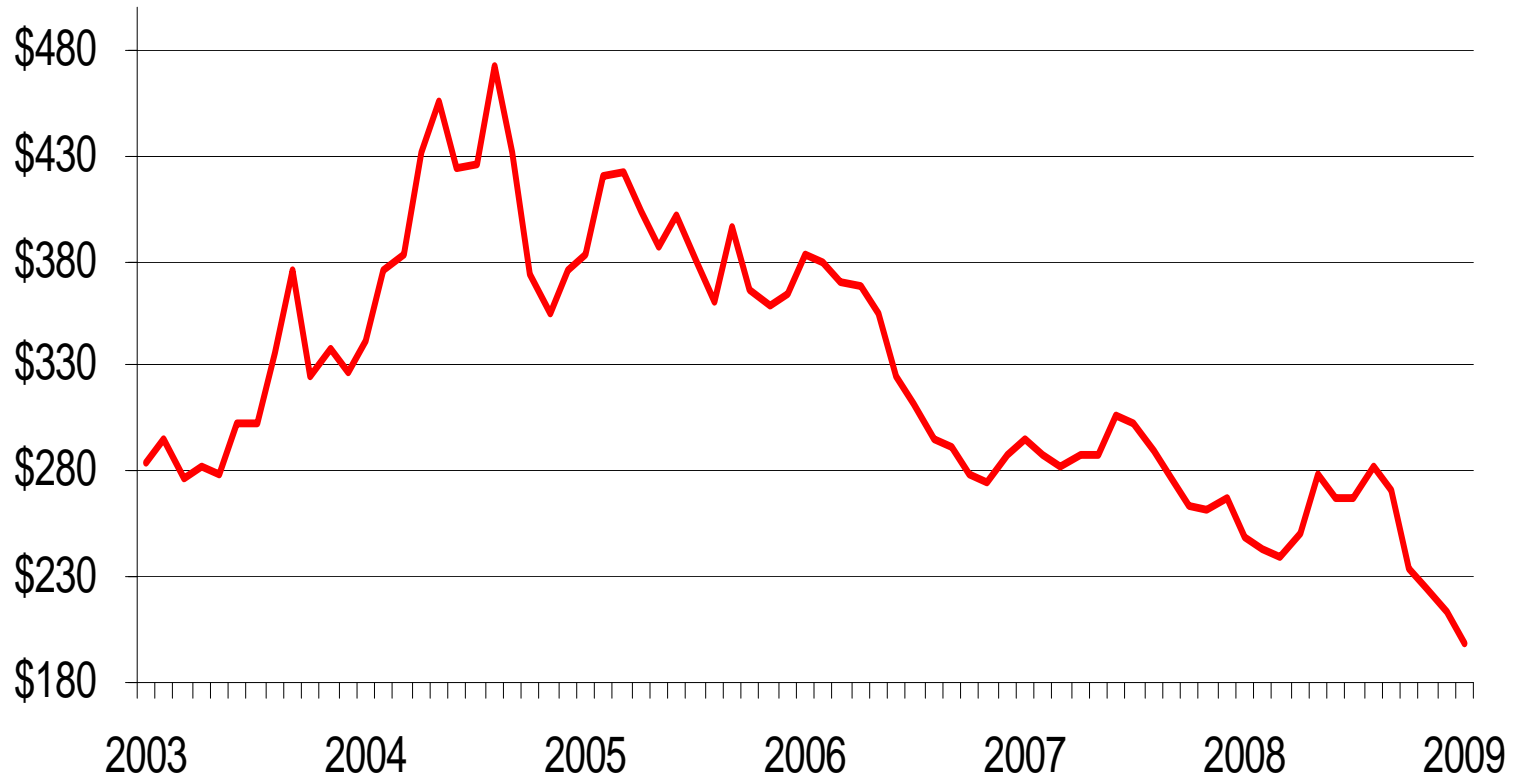


# Building Permits

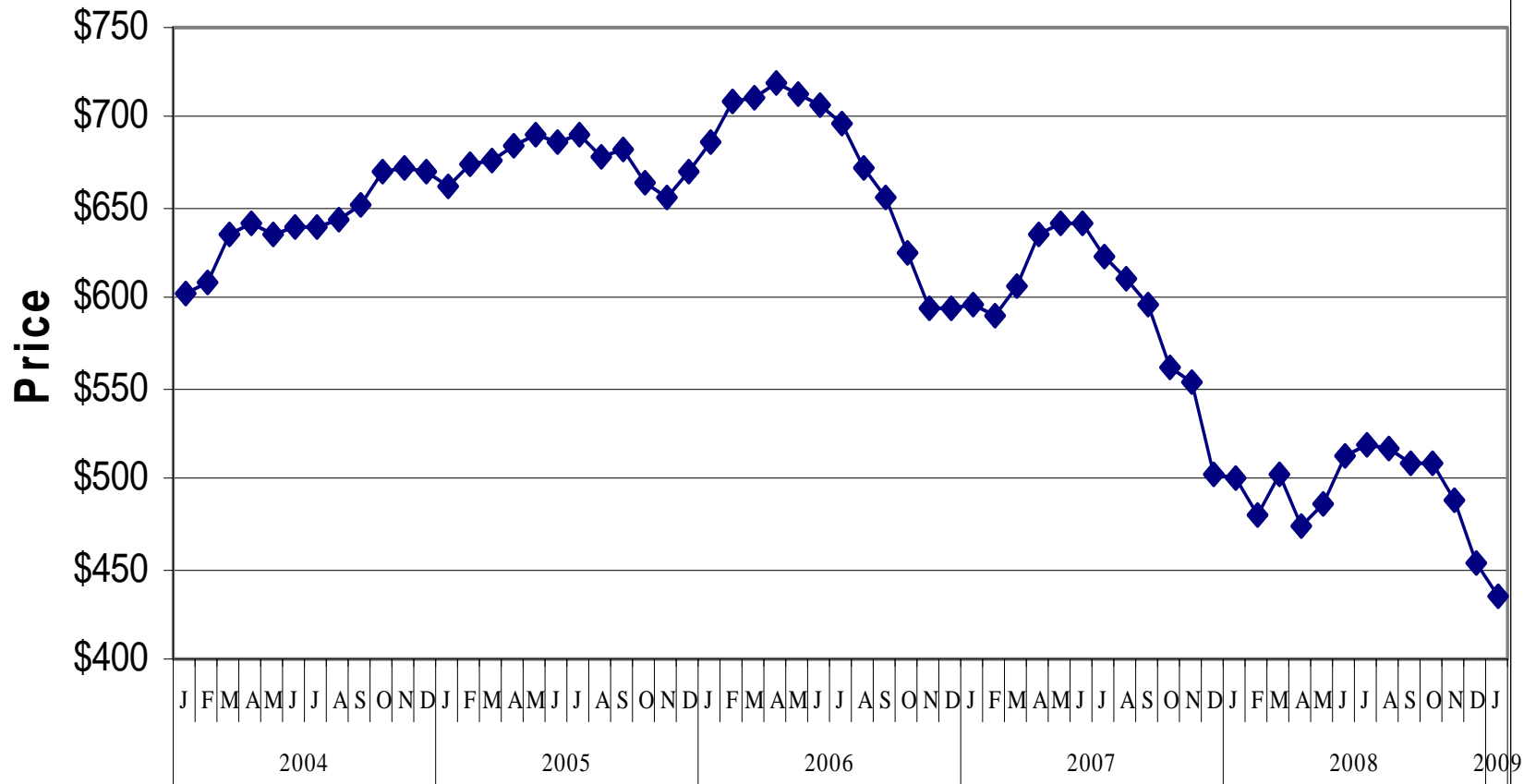




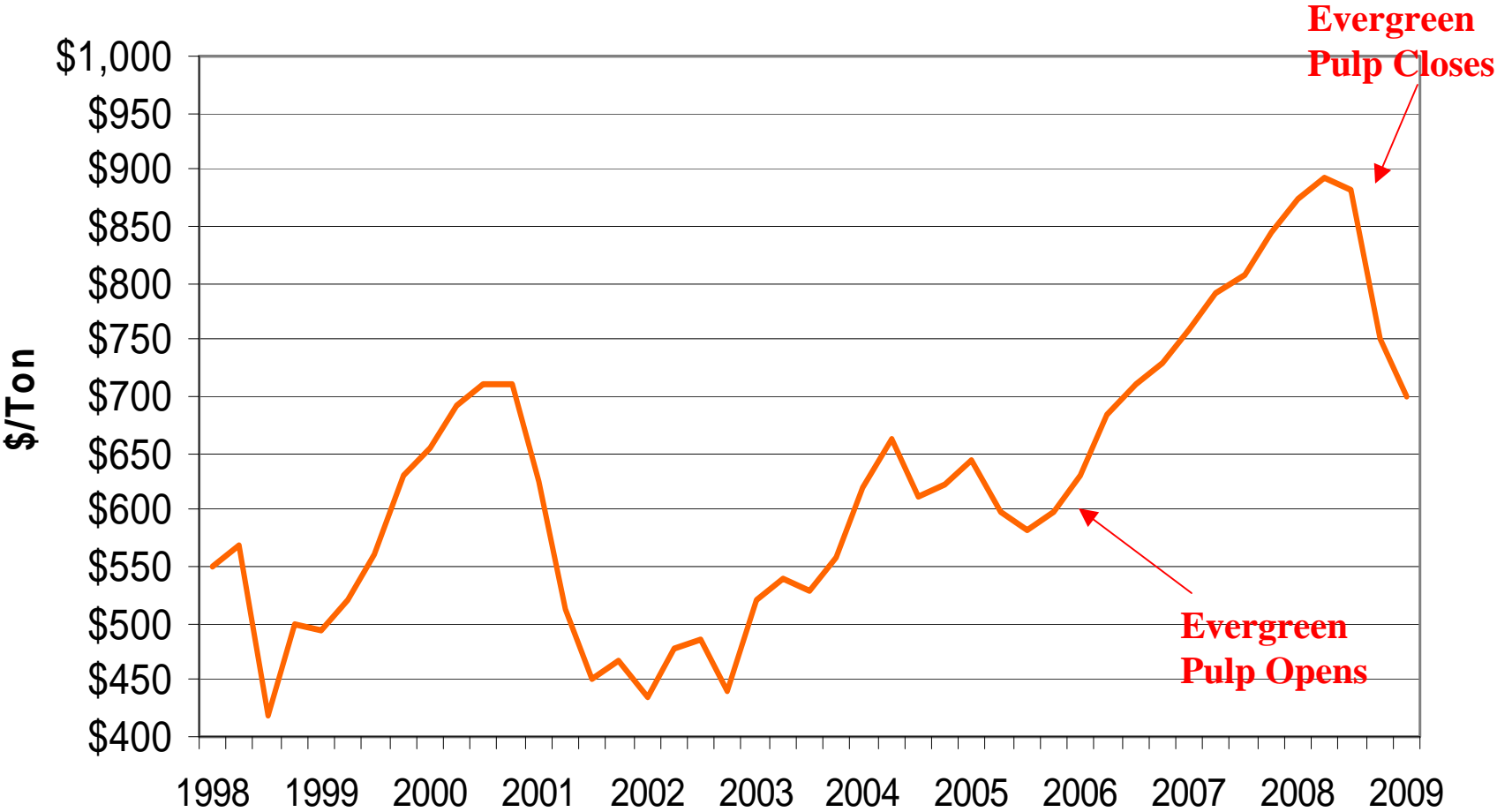
## Random Lengths Framing Lumber Composite Price



## DF #2 Grade Sawlog - Willamette Valley, OR



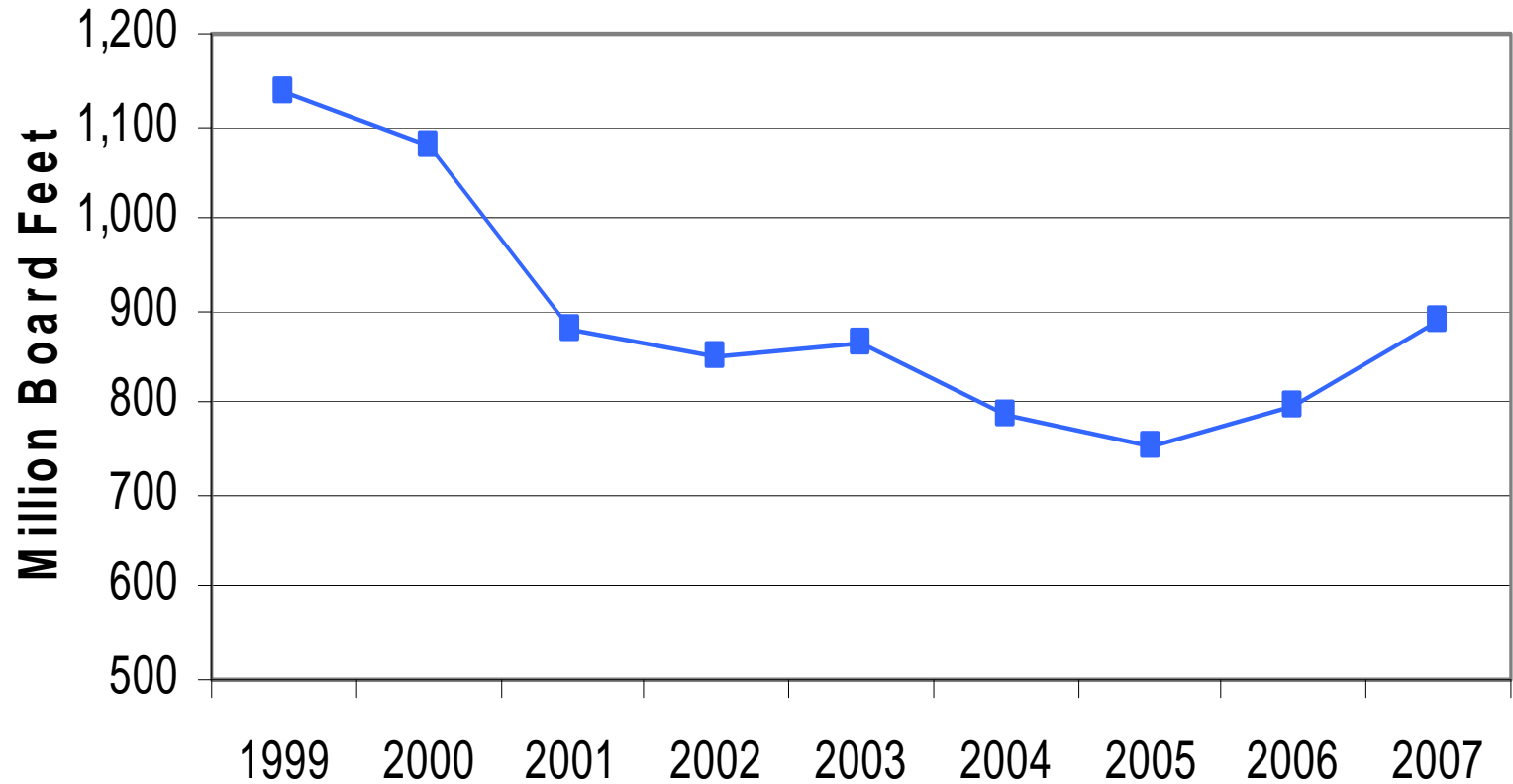
# NBSK Price Trend



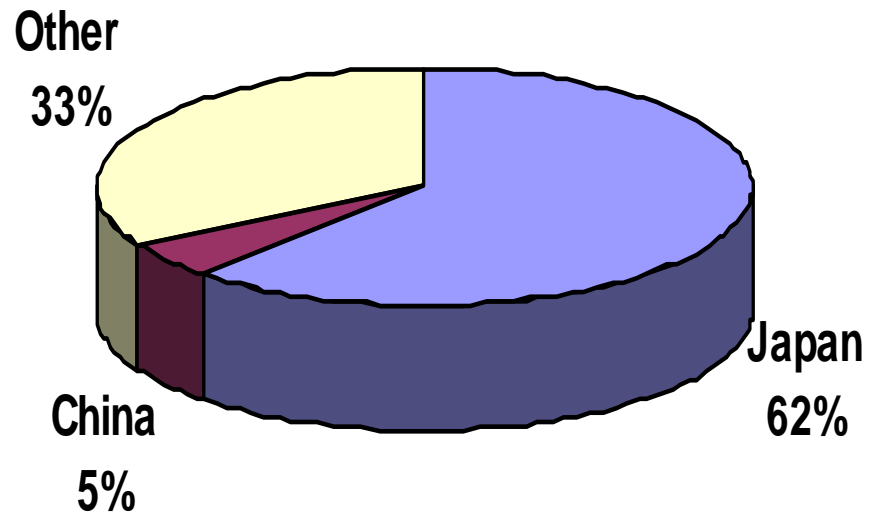
An aerial photograph showing a large industrial facility, likely a log market, situated along a river. The facility includes several large buildings, a parking lot filled with cars, and stacks of logs. In the background, a large white truss bridge spans the river. The surrounding area is a mix of green fields and trees, with hills visible in the distance under a clear blue sky.

# Pacific Rim Log Markets

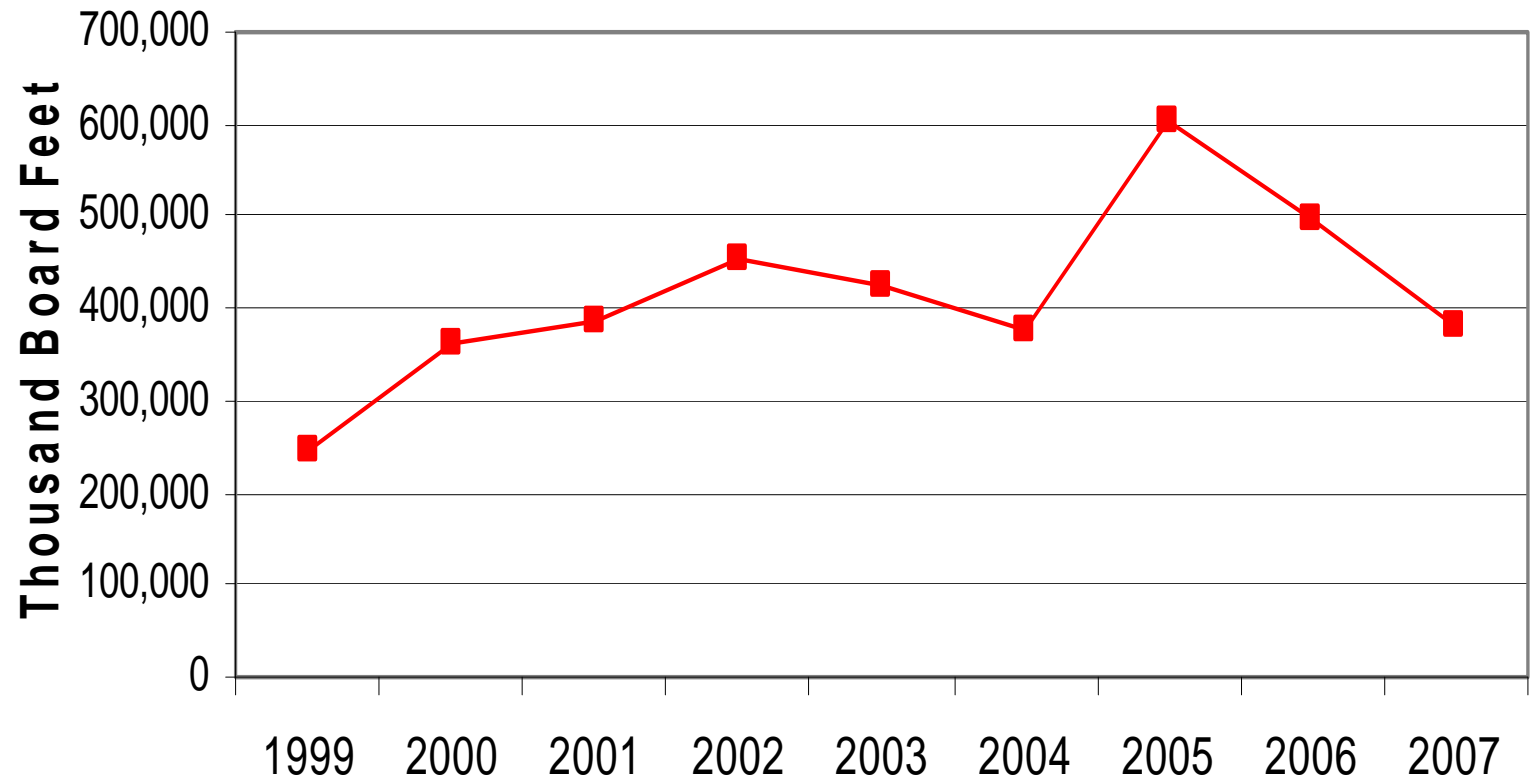
## Logs Exported from U.S. Western Ports



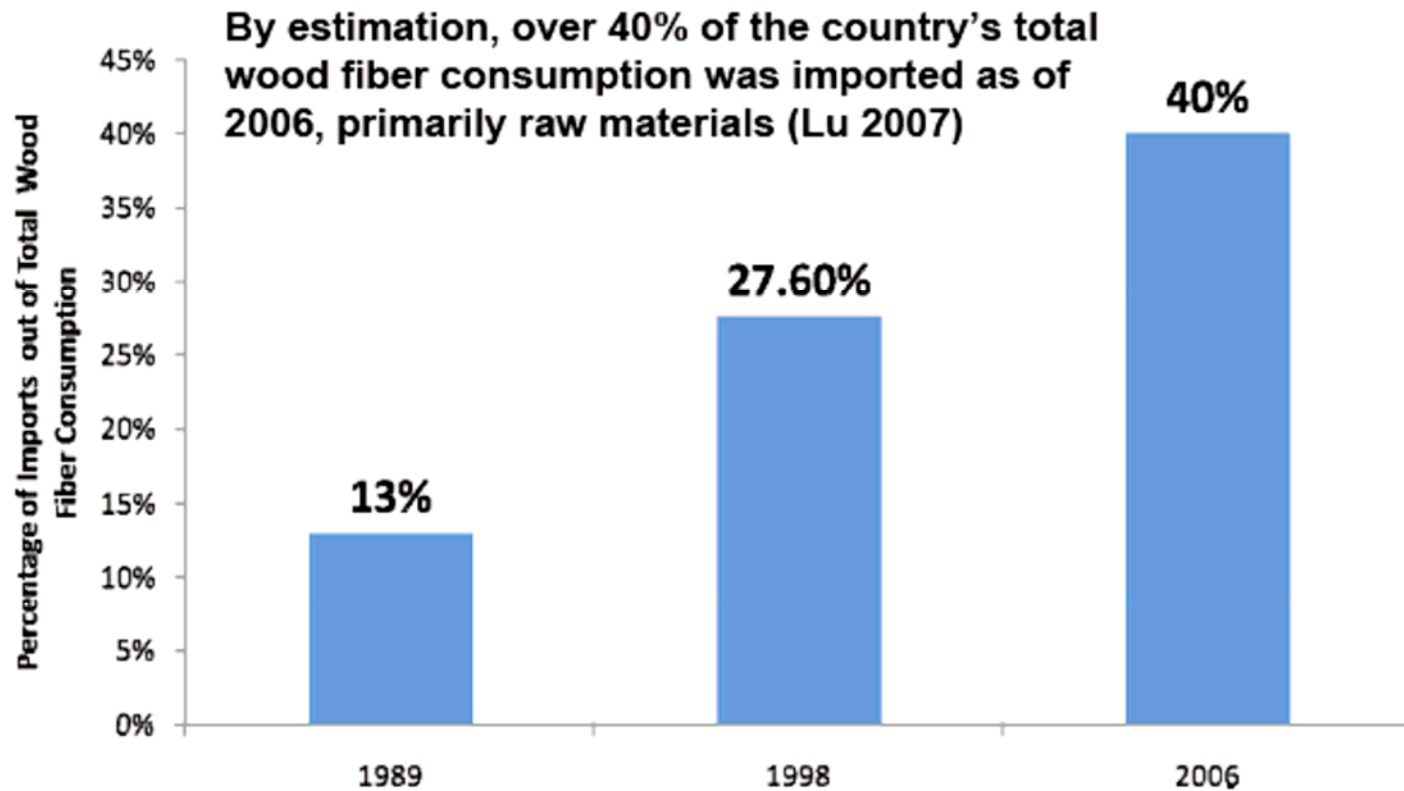
## Major Destinations for West Coast Log Exports



## Log Imports from Canada

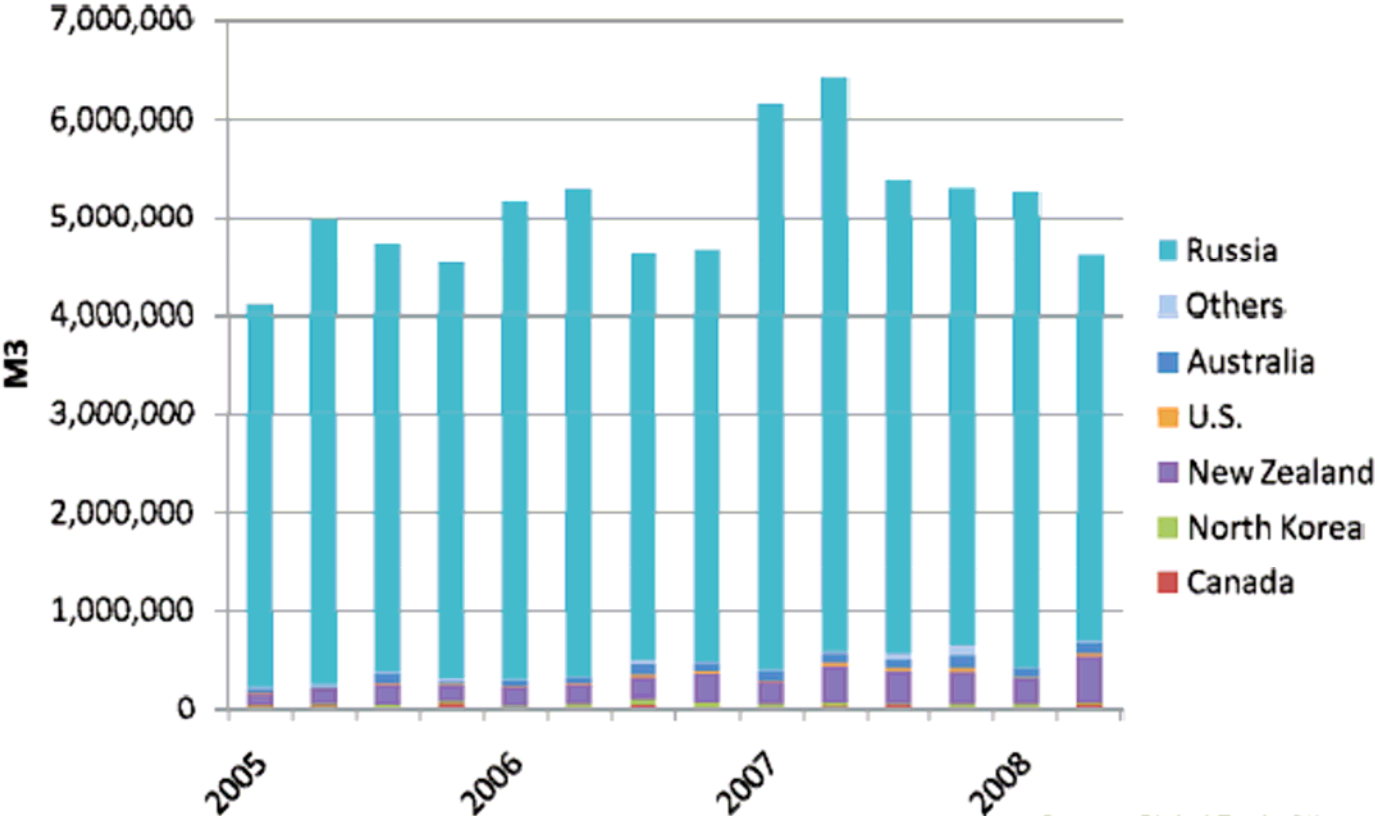


## China's Growing Wood Demand





# China Is A Major Log Importer



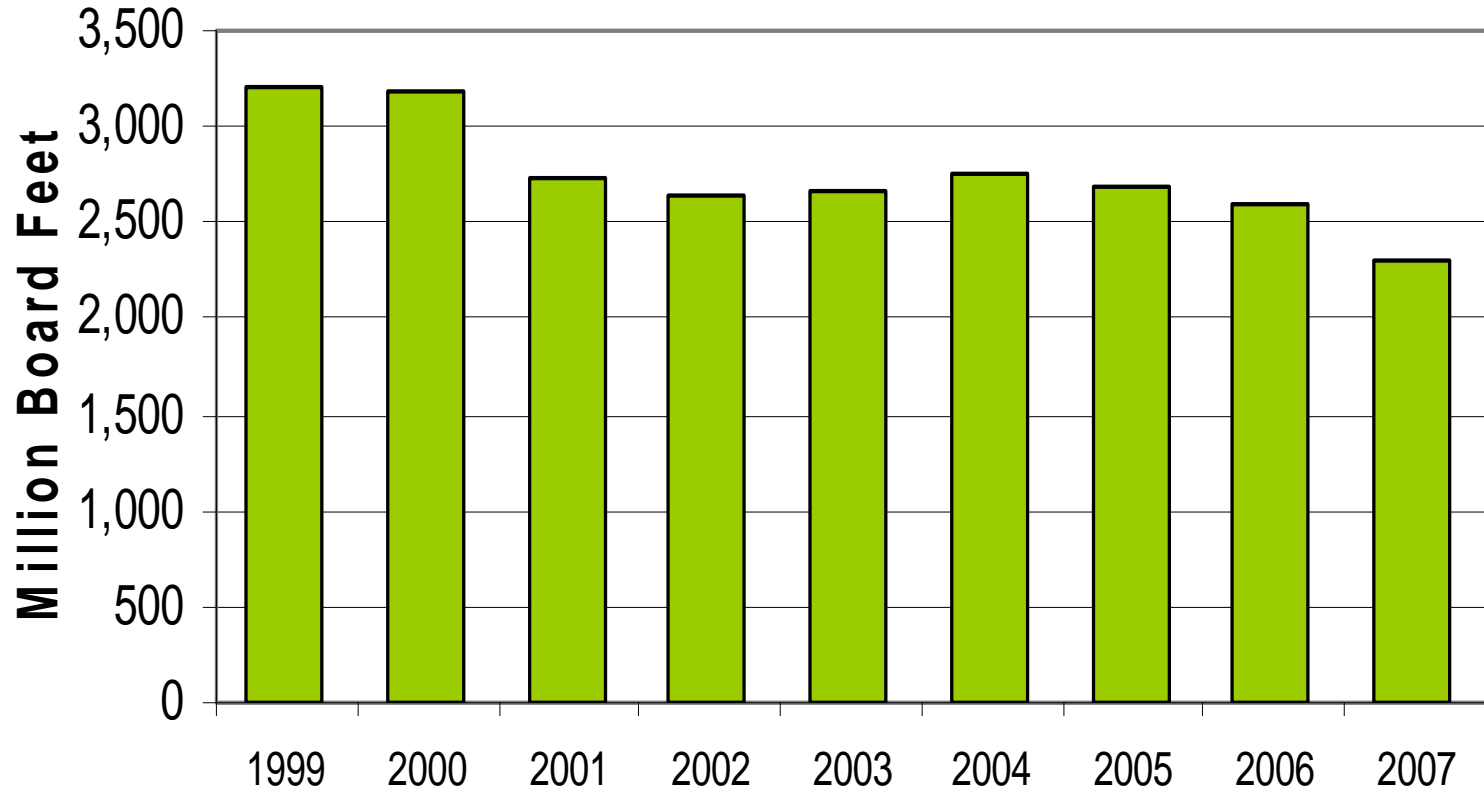
## Russian Logs Are Getting More Expensive



# California



## Lumber Production in California



California Forest Industry  
 Primary Manufacturers Currently in Operation  
 2000-2008 Closures  
 (sawmills unless otherwise indicated)



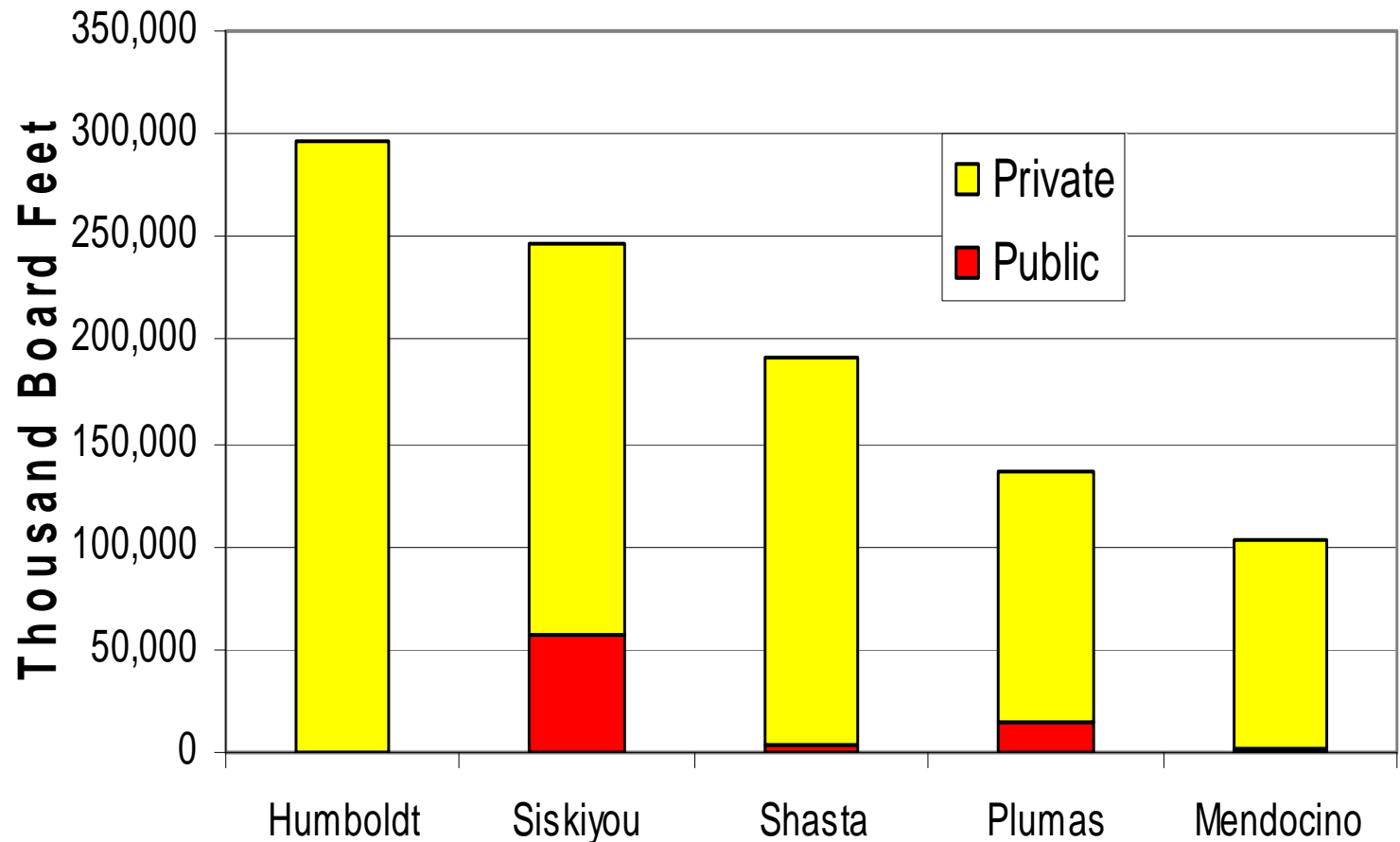
*The forest products industry accounts for one in 10 jobs in 11 of the northern counties and more than half the manufacturing employment in many counties.*

*Between January 2000 and April 2008, 24 facilities have closed, leaving 38 currently in operation.*

- |   |  |  |
|---|--|--|
| 1. Agwood Mill & Lumber (Ukiah)                       | 22. Louisiana-Pacific (Boards) (Orville)     | 43. Sierra Pacific Ind. (Anderson)         |
| 2. Annapolis Milling (Annapolis)                      | 23. Mad River Redwood (Pencing) (Arcata)     | 44. Sierra Pacific Ind. (Arcata)           |
| 3. Berry's Sawmill (Cazadero)                         | 24. Masonic Mill Paper (Boards) (Ukiah)      | 45. Sierra Pacific Ind. (Dumey)            |
| 4. Big Creek Lumber Co. (Davenport)                   | 25. Mendocino Redwood (Fort Bragg)           | 46. Sierra Pacific Ind. (Dumey)            |
| 5. Big Valley Lumber Co. (Sibier)                     | 26. Mendocino Redwood (Ukiah)                | 47. Sierra Pacific Ind. (Central Valley)   |
| 6. Blue Lake Forest Products (Blue Lake)              | 27. P.A.L.C.O. (Cascades moved to Scotia)    | 48. Sierra Pacific Ind. (Lincoln)          |
| 7. Dumey Forest Power (Dumey)                         | 28. P.A.L.C.O. (Fortuna)                     | 49. Sierra Pacific Industries (Loyalton)   |
| 8. California Cedar Products (McCloud)                | 29. P.A.L.C.O. (Mill #1) (Scotia)            | 50. Sierra Pacific Ind. (Orville)          |
| 9. California Cedar Products (Boonville) (Stedman)    | 30. P.A.L.C.O. (Mill #2) (Scotia)            | 51. Sierra Pacific Ind. (Oroville)         |
| 10. California Redwood (Ketchikan)                    | 31. P.A.L.C.O. (Scotia)                      | 52. Sierra Pacific Ind. (Susanville)       |
| 11. California Redwood (Orick)                        | 32. P.A.L.C.O./D&D Lumber (Arcata)           | 53. Sierra Pacific Ind. (Chinese Camp)     |
| 12. Collins Pine Co. (Chesler)                        | 33. Ply-Core, Inc. (Veneer) (Anderson)       | 54. Sierra Pacific Ind. (Standard)         |
| 13. East River Lumber Products (Fortuna)              | 34. R.J.S. Lumber Co. (PHC)                  | 55. Sierra Pine (Boards) (Marble)          |
| 14. East River Sawmills Inc. (Redwood)                | 35. Redwood Empire (Cloverdale)              | 56. Sierra Pine (Boards) (Red Bluff)       |
| 15. Evergreen (Saw) (Danaoa)                          | 36. Roseburg Forest Products (Veneer) (West) | 57. Sound Study (Saw) (Anderson)           |
| 16. Georgia-Pacific (Fort Bragg)                      | 37. Schmidt Bauer Lumber Co. (Eureka)        | 58. Timber Products Co. (Veneer) (Yreka)   |
| 17. Hemlock Forest Products (Boards) (Arcata)         | 38. Shasta Green (Dumey)                     | 59. Trinity River Lumber Co. (Wassonville) |
| 18. Hemlock Forest Products (Boards) ( Crescent City) | 39. Shasta Paper Company (Saw) (Anderson)    | 60. Weber-Duval (D. Corado)                |
| 19. Hemlock Products (Glenn County)                   | 40. Sierra Cedar Products (Marysville)       | 61. Wilco Redwood (Wilco)                  |
| 20. Humboldt Flute Board (Arcata)                     | 41. Sierra Forest Products (D. Abate)        | 62. Wisconsin-California (Anderson)        |
| 21. J.H. Gasker (Sawmills) (West)                     | 42. Sierra Forest Products (Terra Bella)     |  |

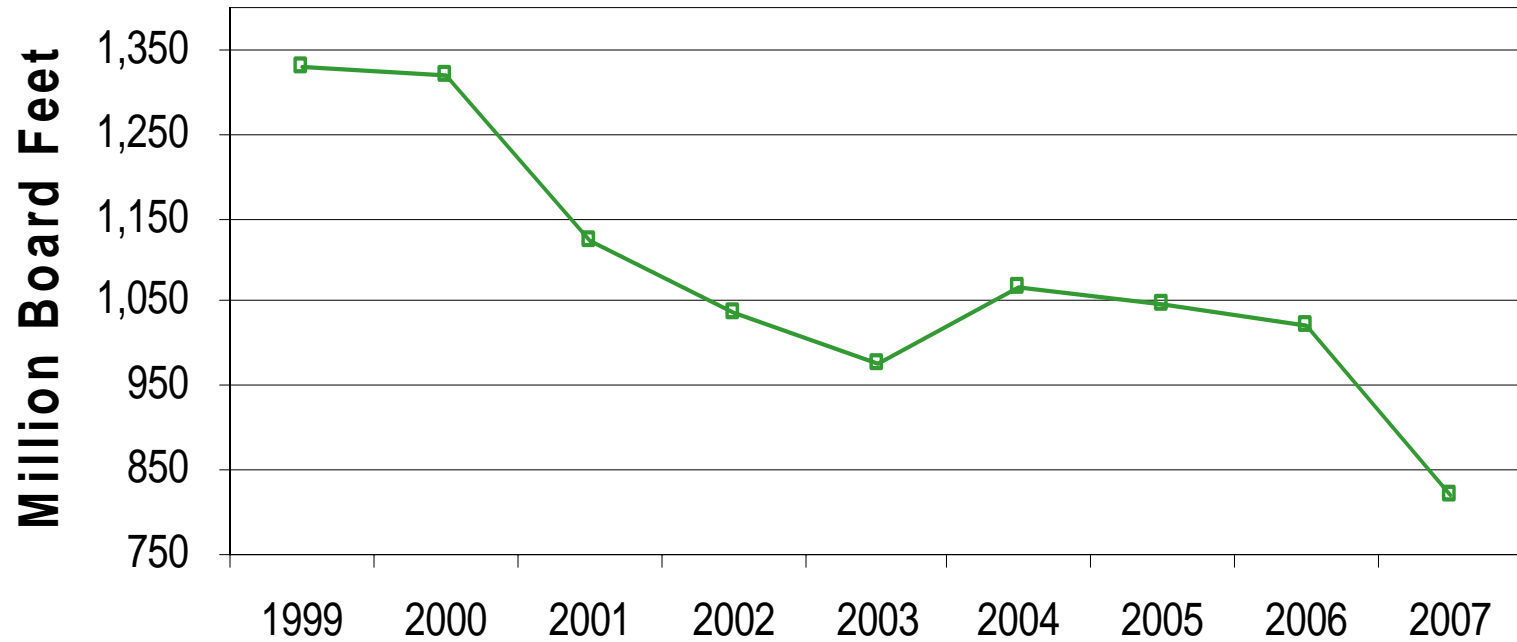
Source: California Forestry Association, Pacific Ranger 21 March 1994 (2000)

## Top 5 Timber Harvesting Counties

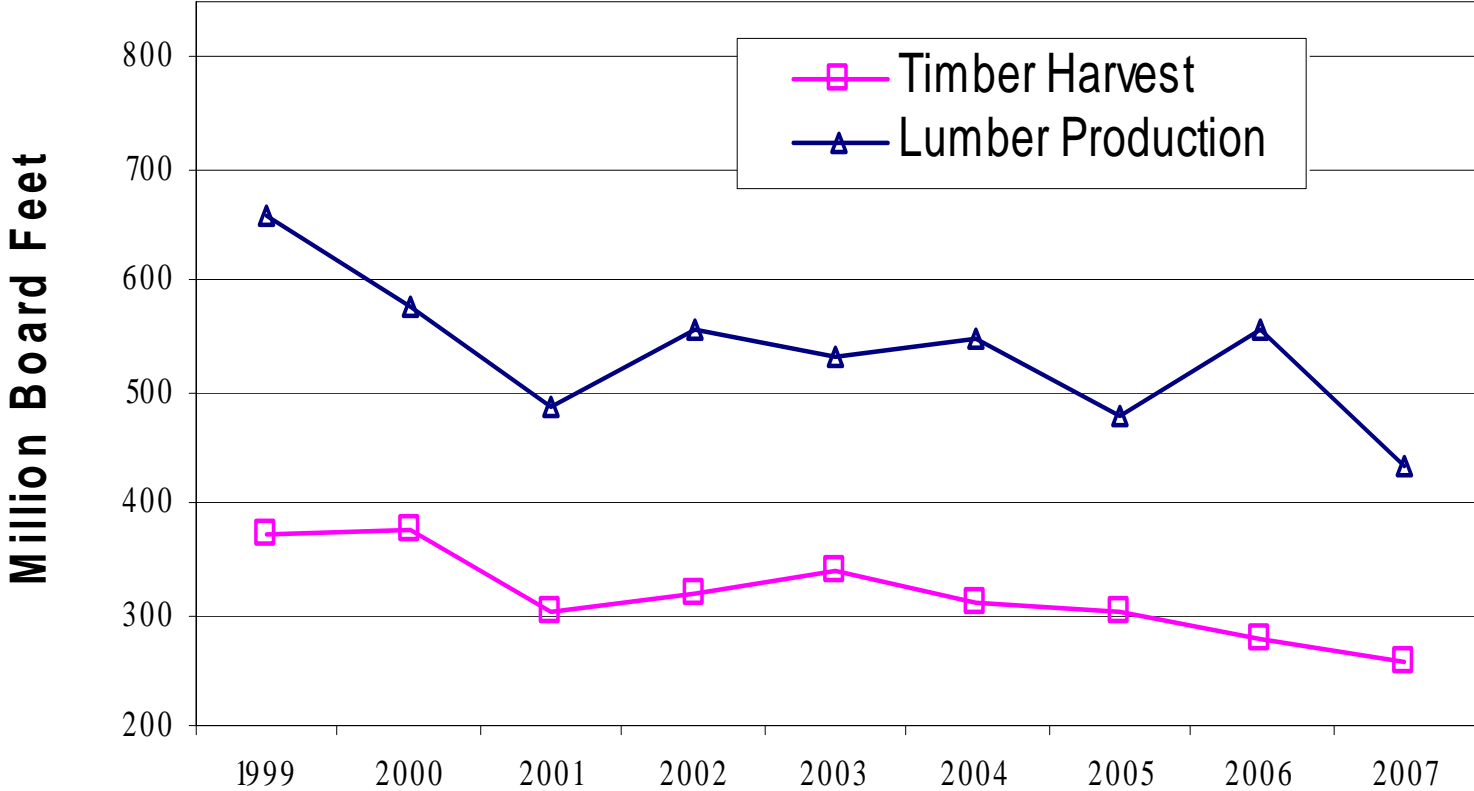


# North Coast

## Total Lumber Production - Redwood Region

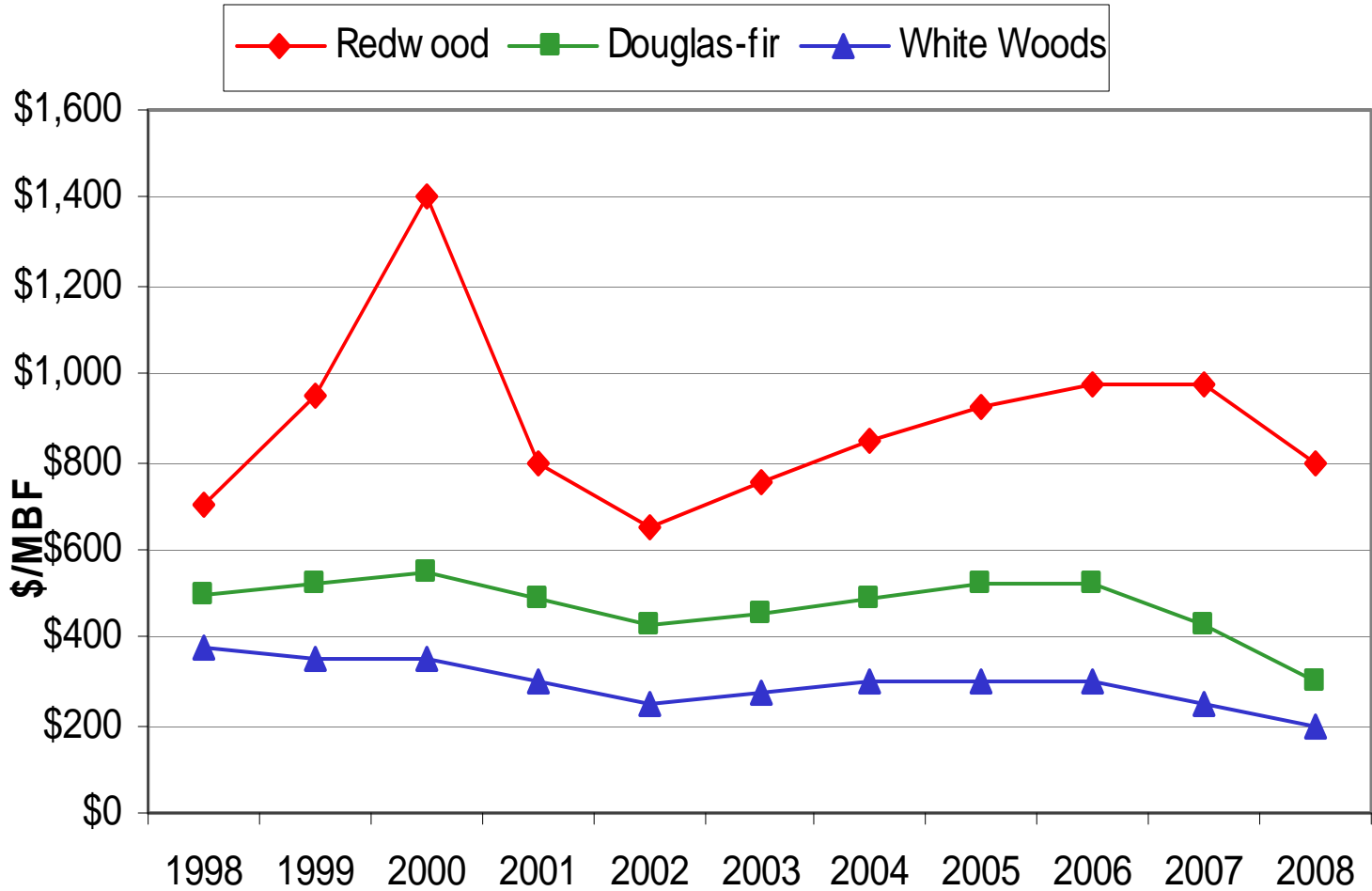


# Redwood Lumber Production and Timber Harvest

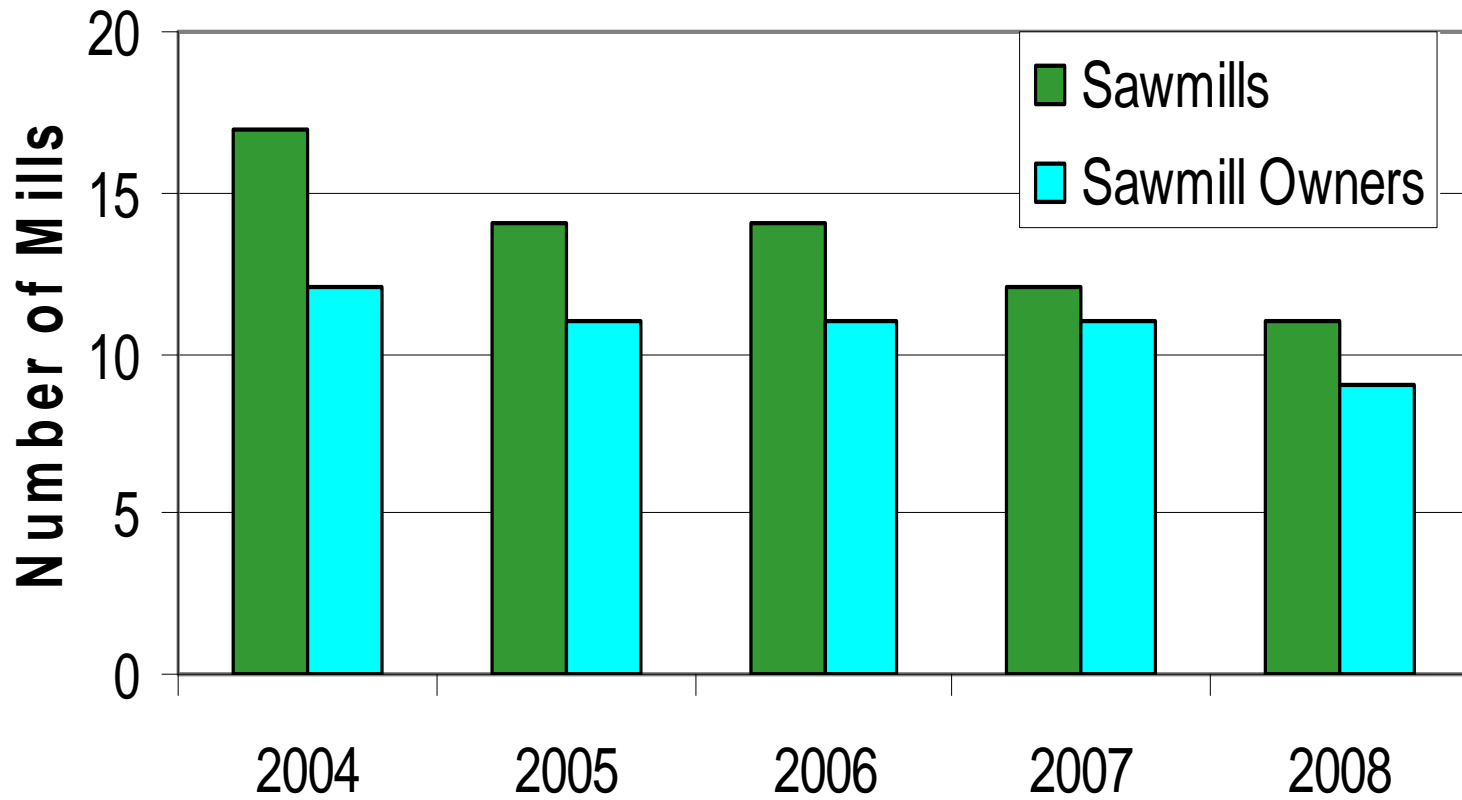




## North Coast Log Price Trends



## Ownership Concentration in NC Sawmills



# Trends to Consider

## Short Term:

- Soft log prices will be flat through mid 2010.
- Lack of competition for logs on North Coast will continue.
- Closure of pulp mill means that sawmills will pay 10% to 15% less for DF logs.

## Long Term:

- Pent up demand for housing will result in strong increase in starts (when ever recovery arrives). Will North American sawmill capacity keep up?
- Canadian timber supply/lumber production constraints will continue.
- Increase in log exports to Pacific Rim from PNW. What are the Russians up to?
- Fuel prices will increase. Increase in logging and hauling costs.
- DF prices will move up. Will there be an increase in demand on North Coast?
- Lack of competition for RW means prices will move up more slowly. Will Californians rediscover redwood?
- What will be the impact of carbon sequestration and bio-fuel production on North Coast values?