

Hardwood Lumber Domestic Market Update

WESTERN HARDWOODS ASSOCIATION Annual Convention

Lincoln City, Oregon August 18, 2022

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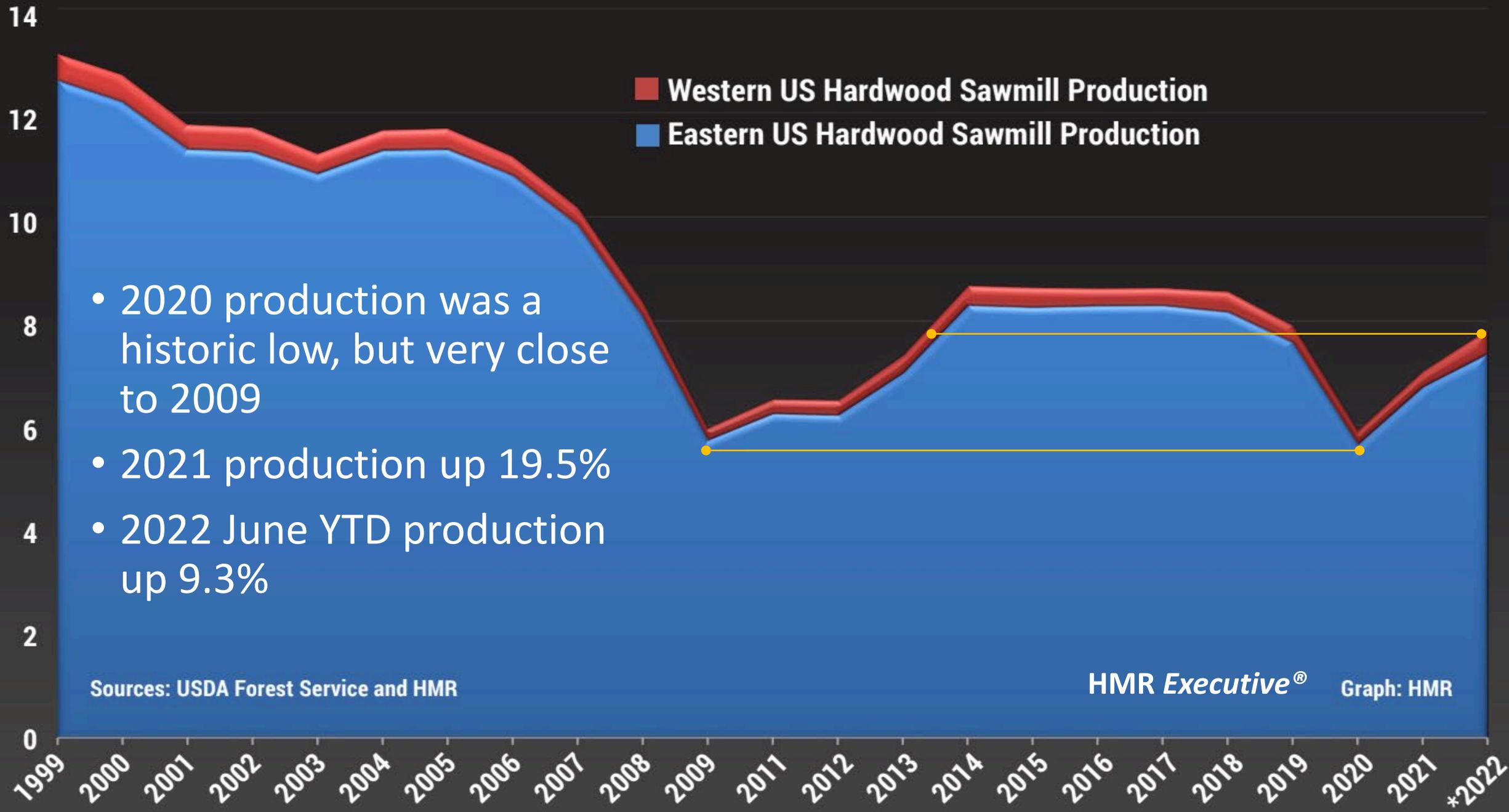
SCHOOL OF ENVIRONMENTAL AND FOREST SCIENCES

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US Hardwood Sawmill Production



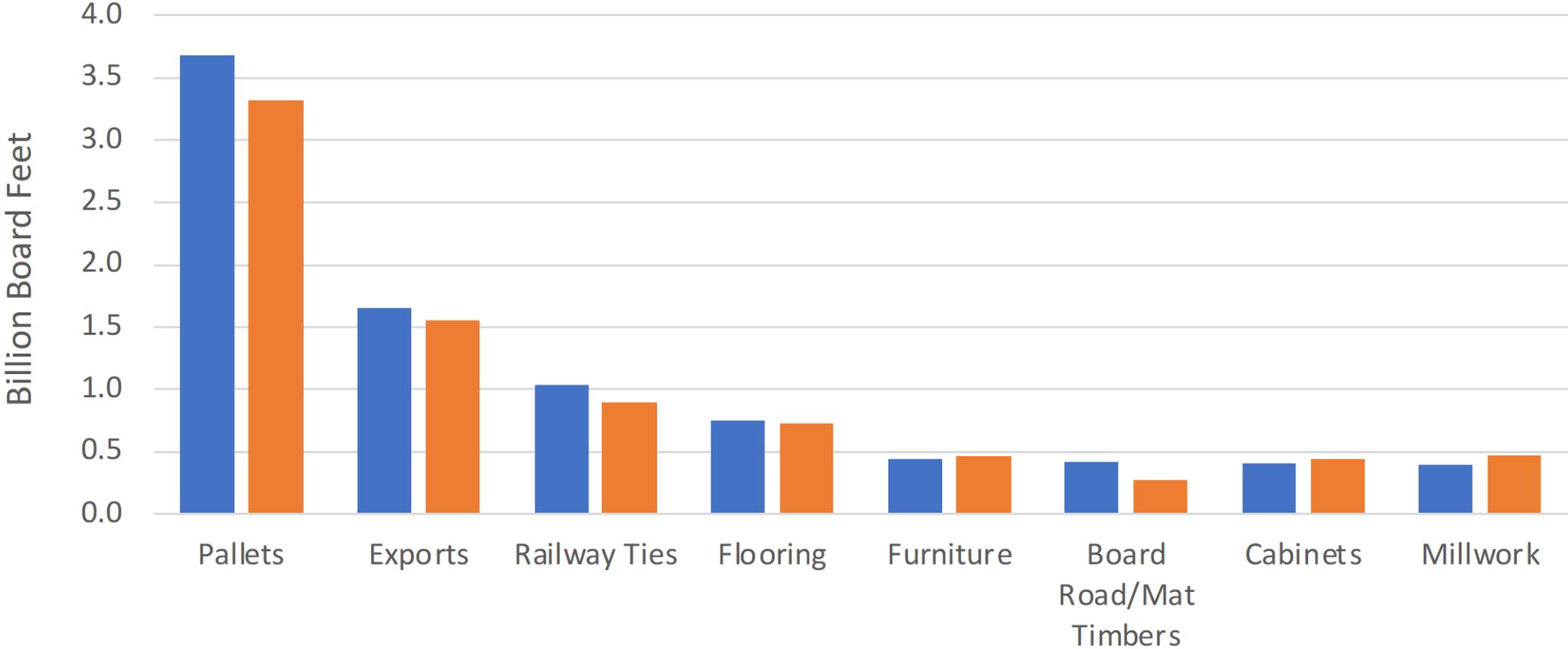
- 2020 production was a historic low, but very close to 2009
- 2021 production up 19.5%
- 2022 June YTD production up 9.3%

Sources: USDA Forest Service and HMR

HMR Executive® Graph: HMR

Consumption of Hardwood Lumber by Major U.S. Markets

■ 2014 ■ 2022





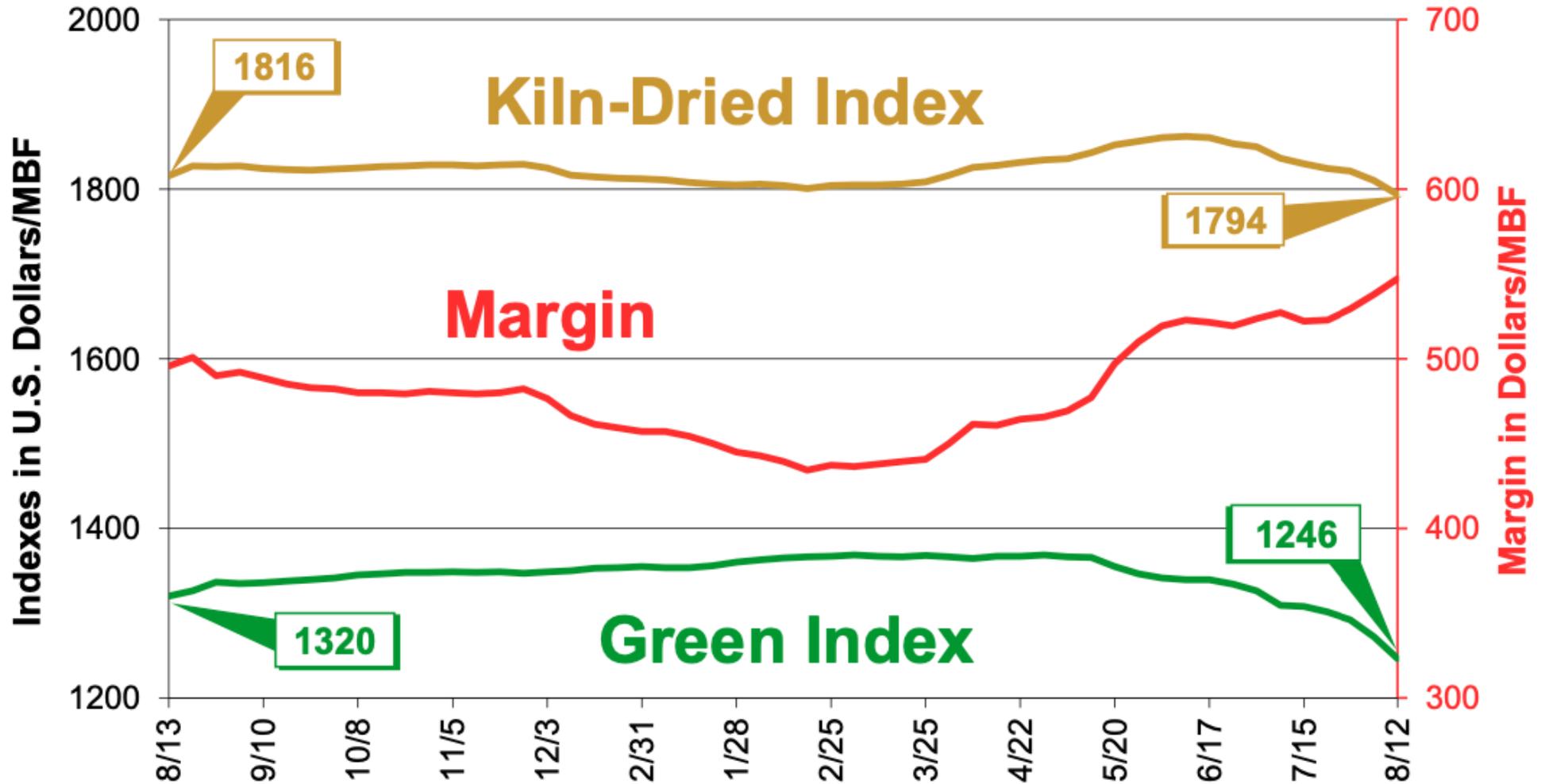
According to *HMR Executive*, Western hardwood sawmill production in the first half of 2022 was 473 million board feet, “the highest annual rate since the early 2000s”.

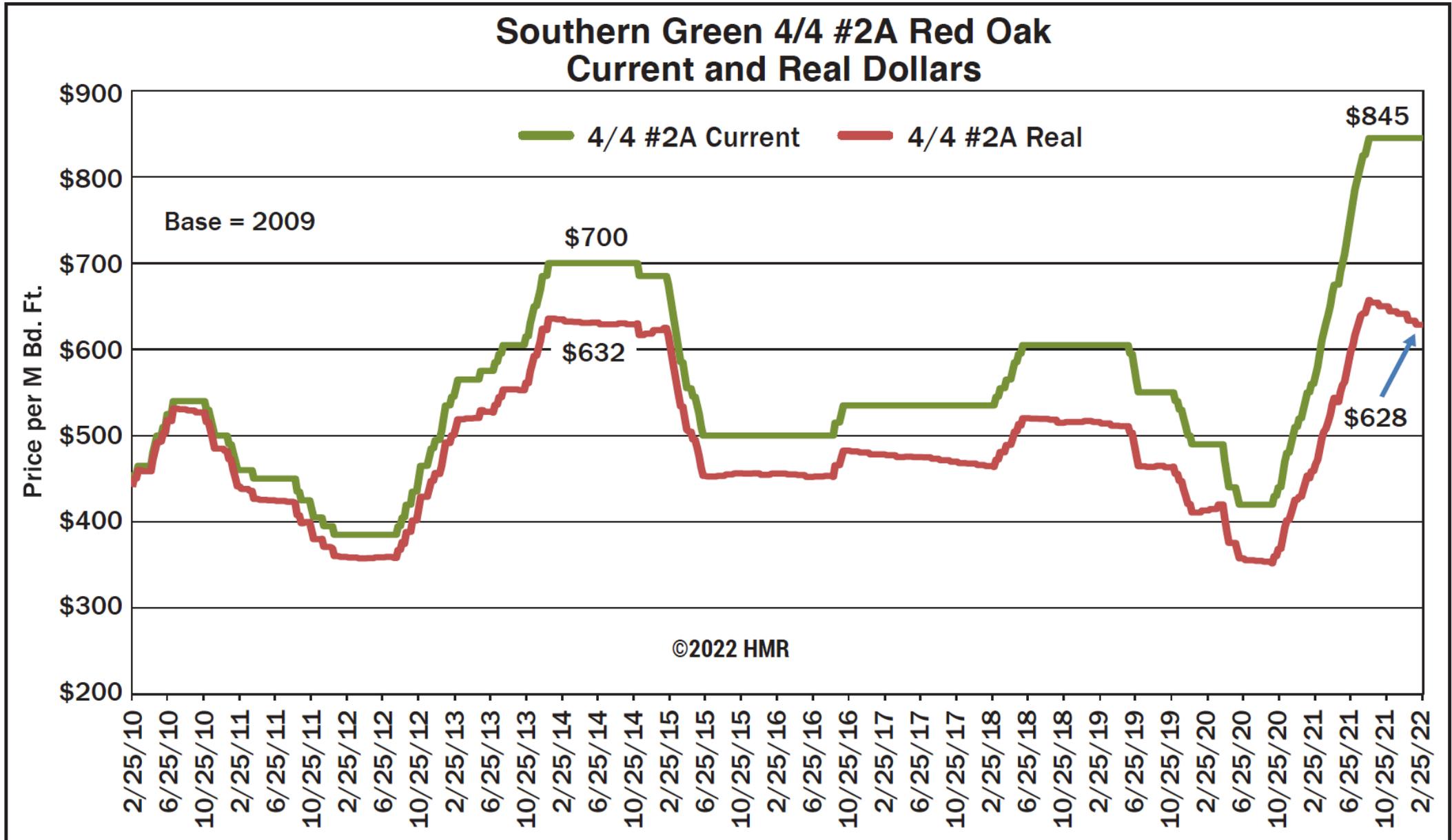
Western production is 6% of total U.S. hardwood lumber production.

Hardwood Lumber Price Indexes

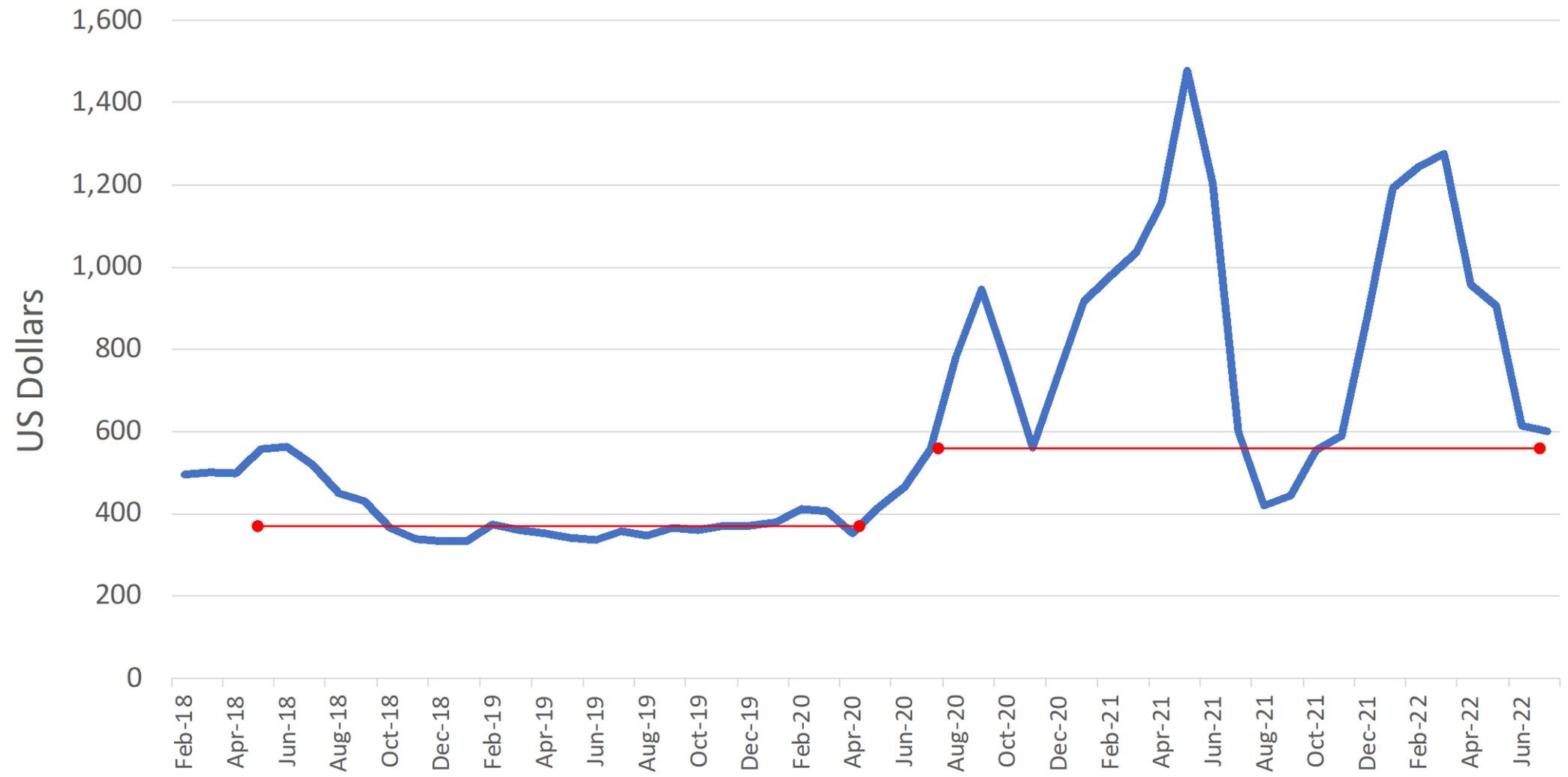
One-Year Change in Kiln-Dried Price Index: -1.22%

One-Year Change in Green Price Index: -5.57%



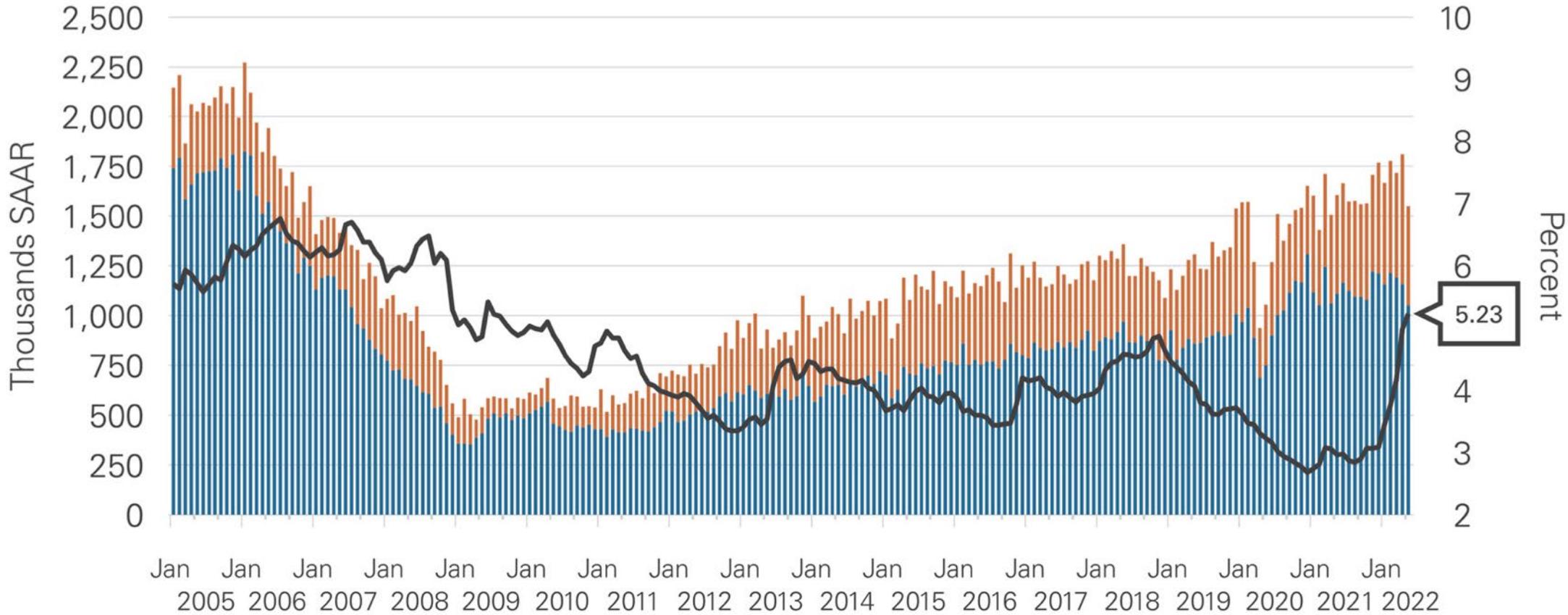


Random Lengths Framing Lumber Composite Price



Source: Random Lengths

US housing starts



MACROBOND

— Mortgage rate, rhs ■ Multi-family, lhs ■ Single family, lhs

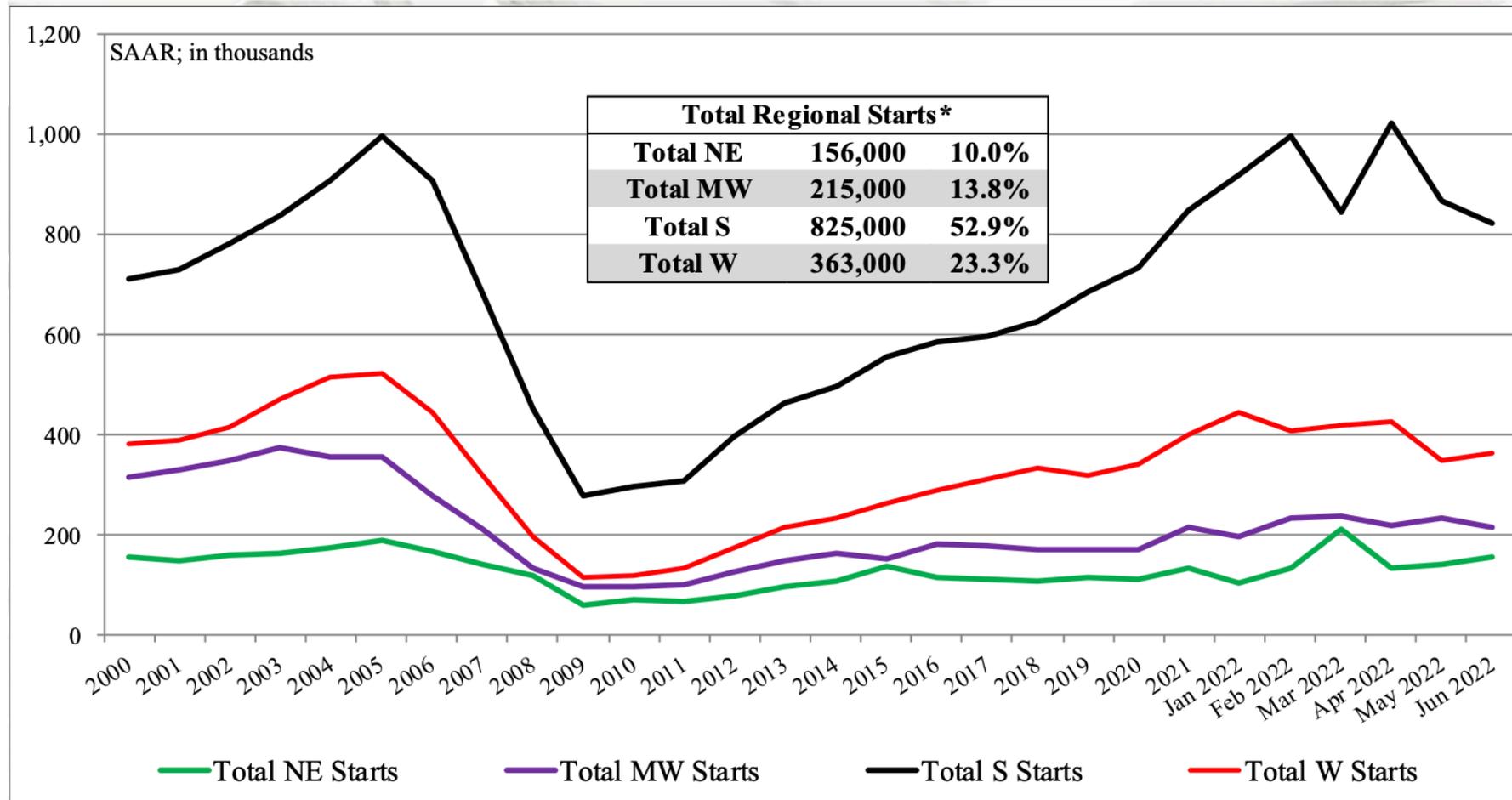
New Housing Starts

	Total Starts*	SF Starts	MF 2-4 Starts**	MF ≥5 Starts
June	1,559,000	982,000	9,000	568,000
May	1,591,000	1,068,000	29,000	494,000
2021	1,664,000	1,165,000	11,000	488,000
M/M change	-2.0%	-8.1%	-69.0%	15.0%
Y/Y change	-6.3%	-15.7%	-18.2%	16.4%

* All start data are presented at a seasonally adjusted annual rate (SAAR).

** US DOC does not report 2 to 4 multi-family starts directly; this is an estimation ((Total starts – (SF + 5-unit MF)).

New Housing Starts by Region

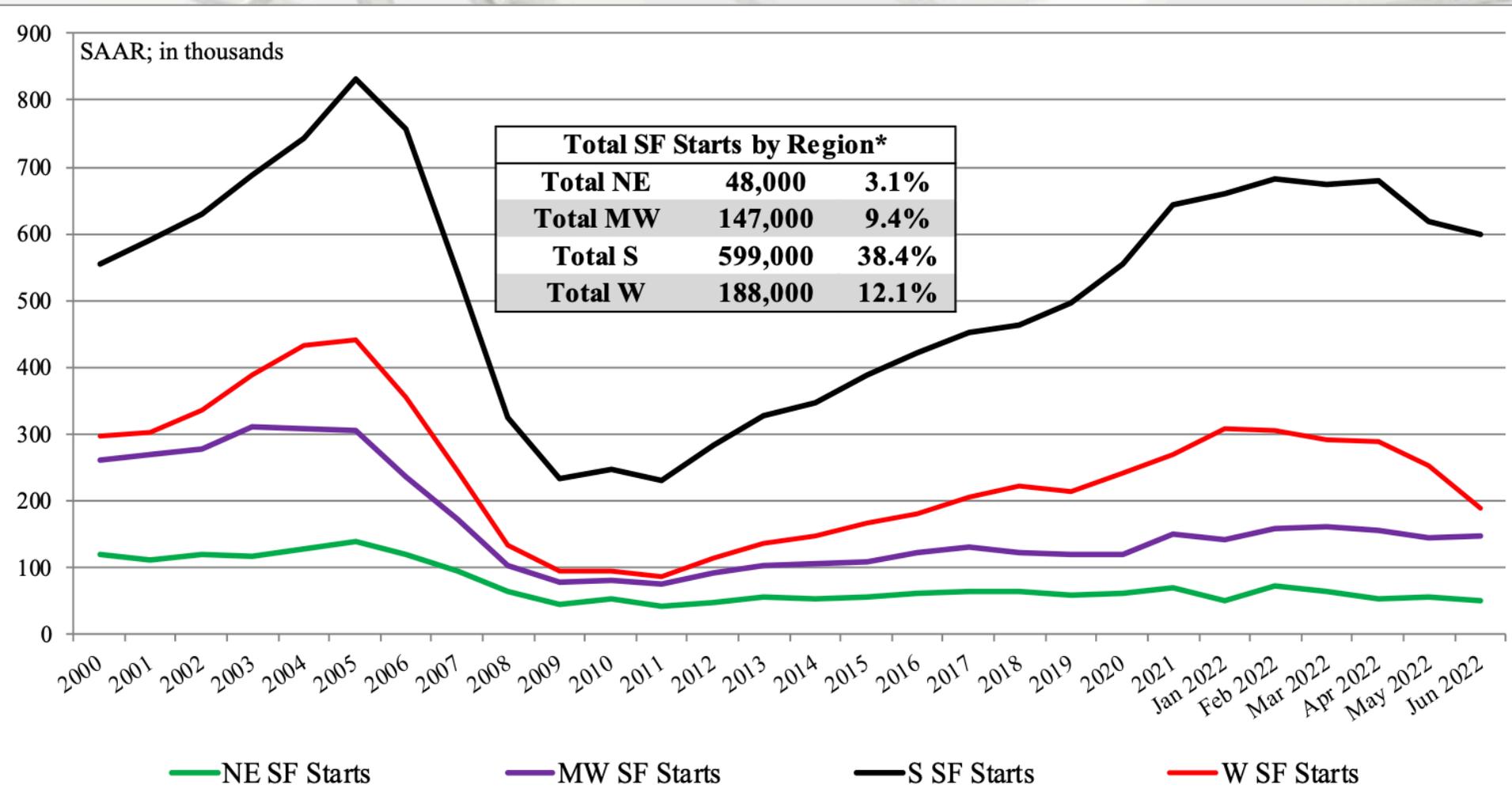


NE = Northeast, MW = Midwest, S = South, W = West

US DOC does not report 2 to 4 multi-family starts directly; this is an estimation (Total starts – (SF + ≥ 5 MF starts)).

* Percentage of total starts.

Total SF Housing Starts by Region

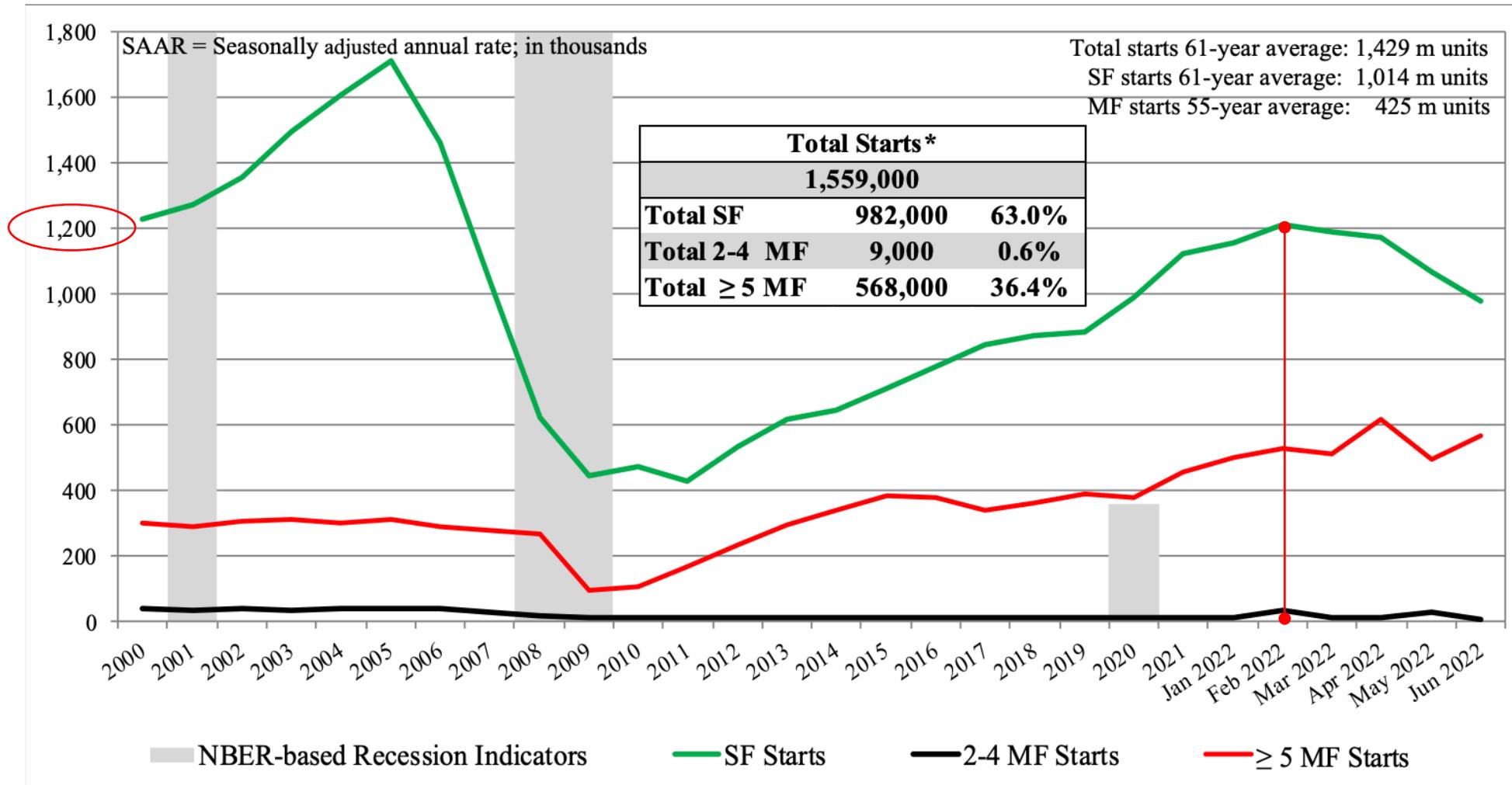


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New Housing Starts



US DOC does not report 2 to 4 multi-family starts directly; this is an estimation: ((Total starts – (SF + ≥ MF)).

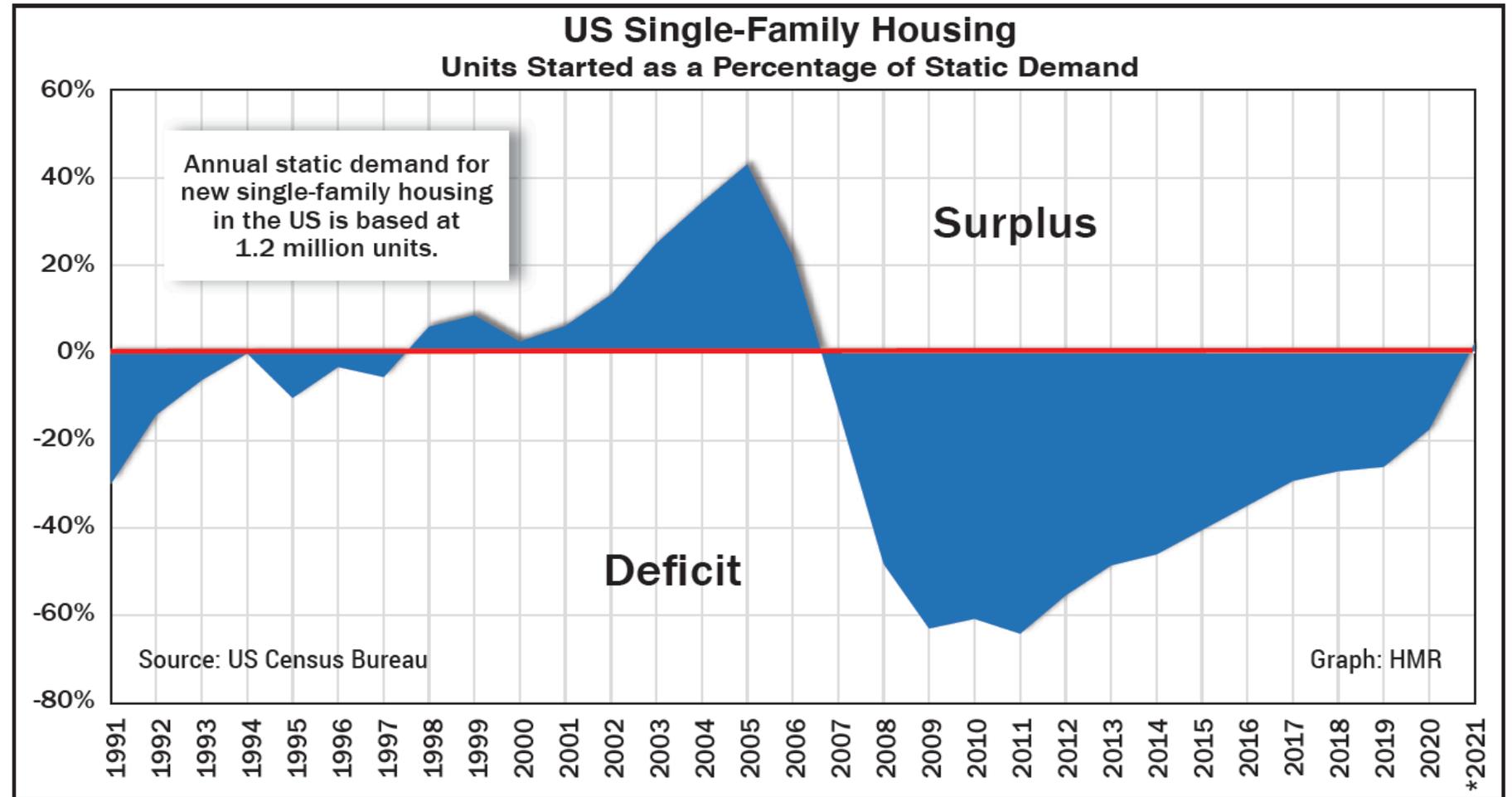
* Percentage of total starts.

NBER based Recession Indicator Bars for the United States from the Period following the Peak through the Trough (FRED, St. Louis).

Source: Virginia Tech–USDA Forest Service Housing Commentary

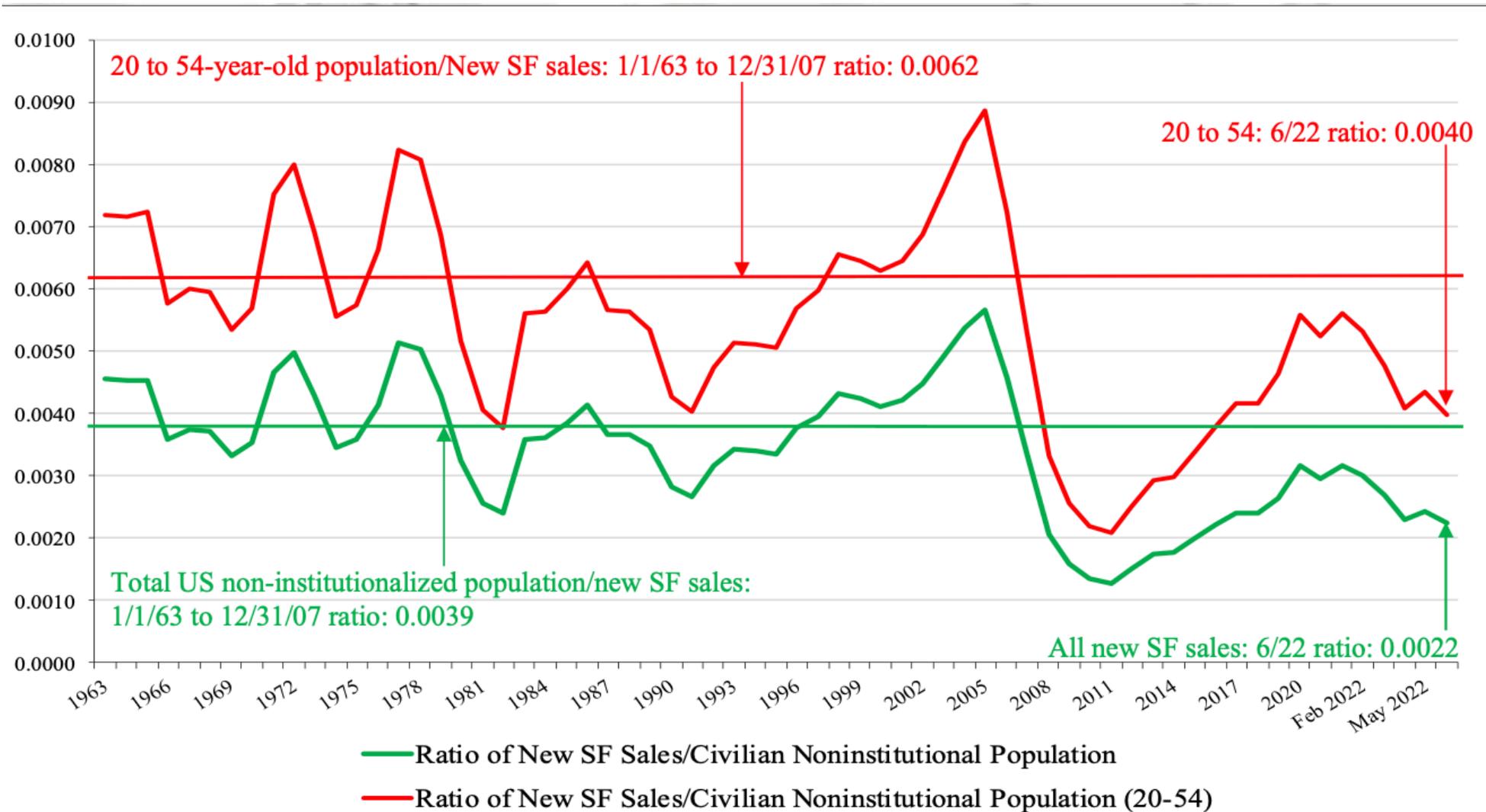
U.S. housing supply had been under-supplied for a decade

- The U.S. now has its largest adult population in its history. That population is growing and getting younger.
- There is a severe shortage of single-family houses in the U.S.



Source: HMR Executive

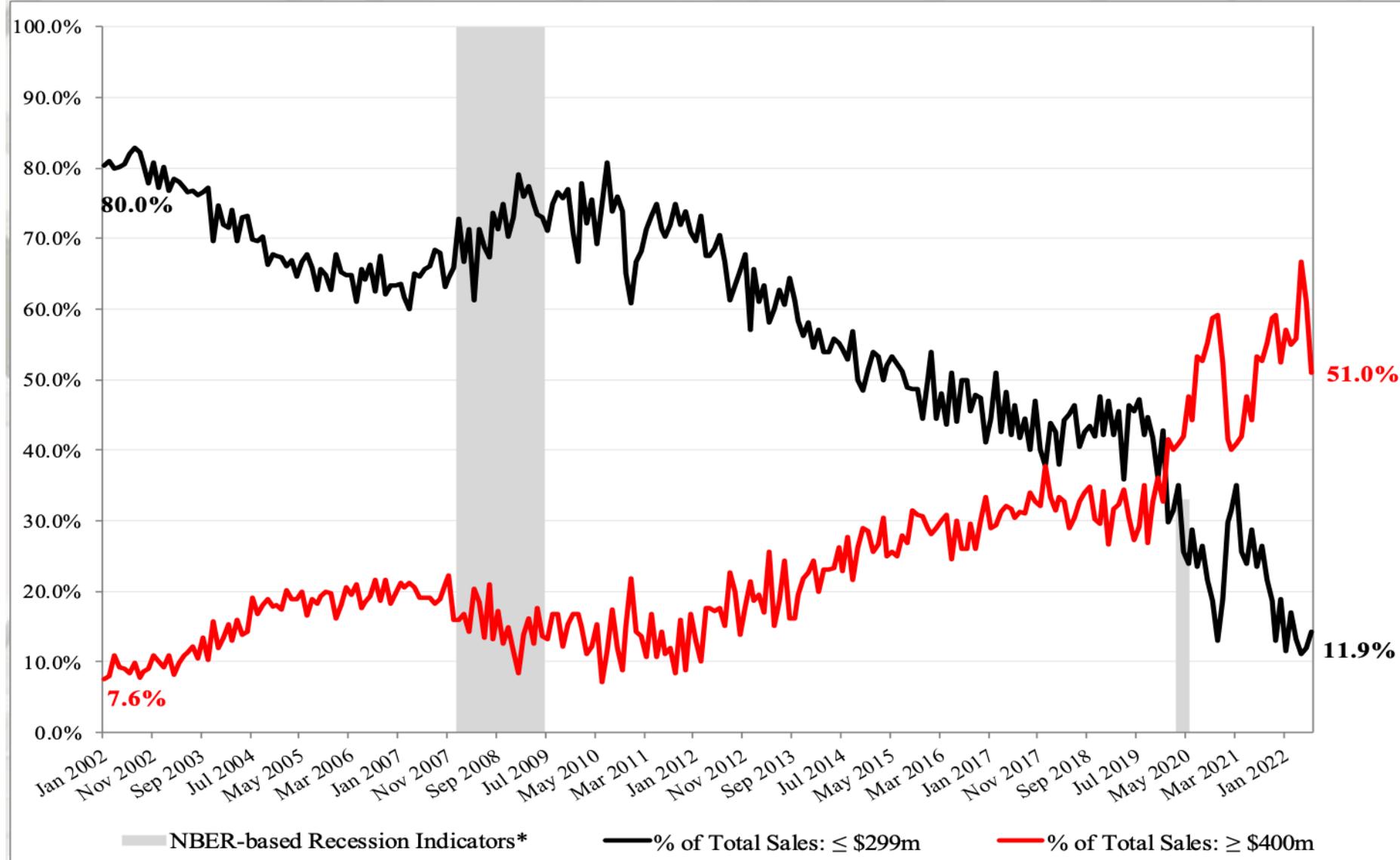
Single-family housing sales relative to population





There remains a severe shortage of single-family houses in the U.S.

New SF House Sales



Source: Virginia Tech–USDA Forest Service Housing Commentary

Soaring home prices have increased pressure on rents



Leading Indicator of Remodeling Activity – Second Quarter 2022

**Homeowner Improvements & Repairs
Four-Quarter Moving Totals
Billions**

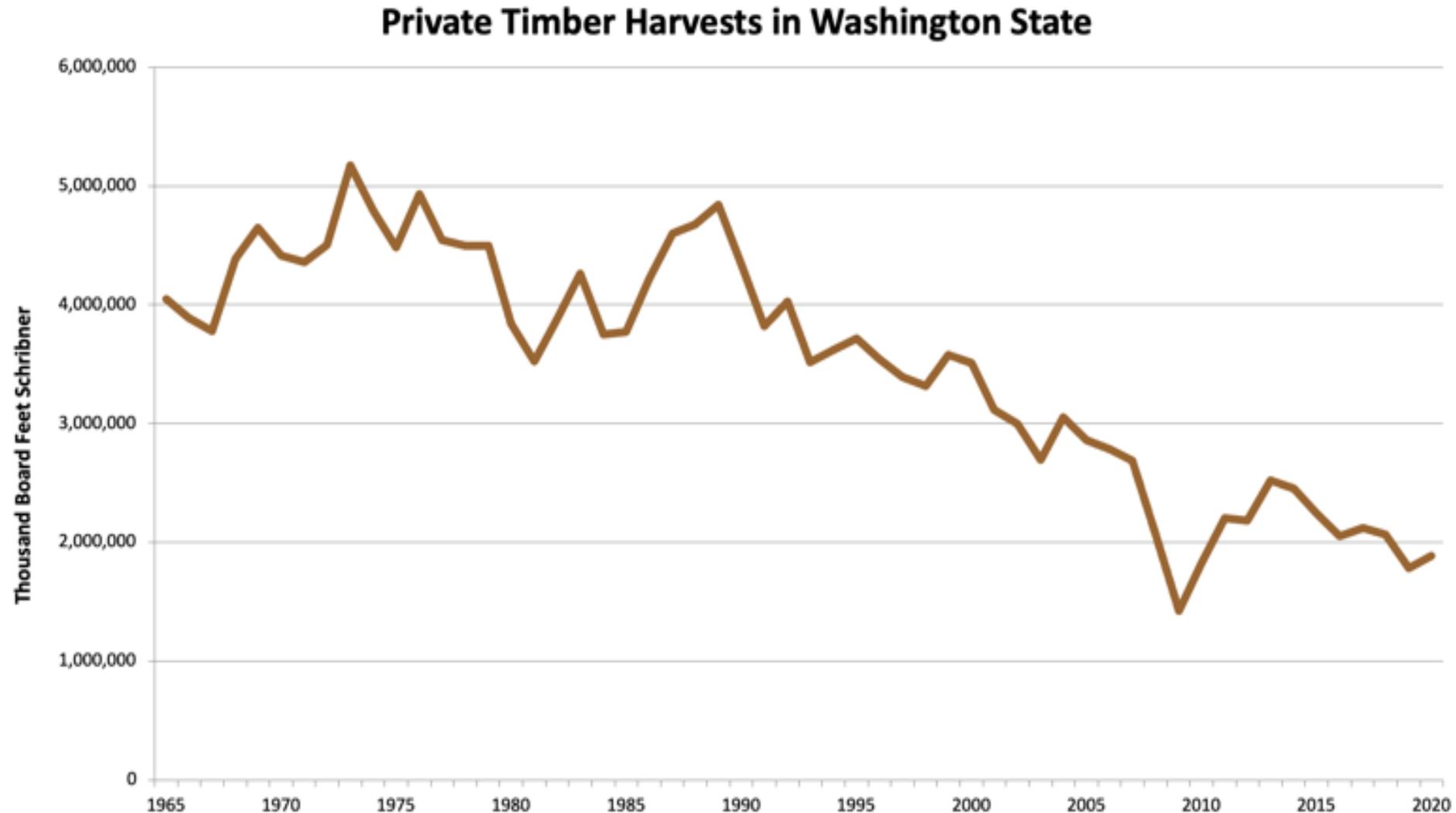


Notes: Improvements include remodels, replacements, additions, and structural alterations that increase the value of homes. Routine maintenance and repairs preserve the current quality of homes. Historical estimates since 2019 are produced using the LIRA model until American Housing Survey benchmark data become available.

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Joint Center for Housing Studies of Harvard University 

Timber Harvests in the West are Shrinking



Source: Washington State Dept. of Revenue



Northwest Timber Supply

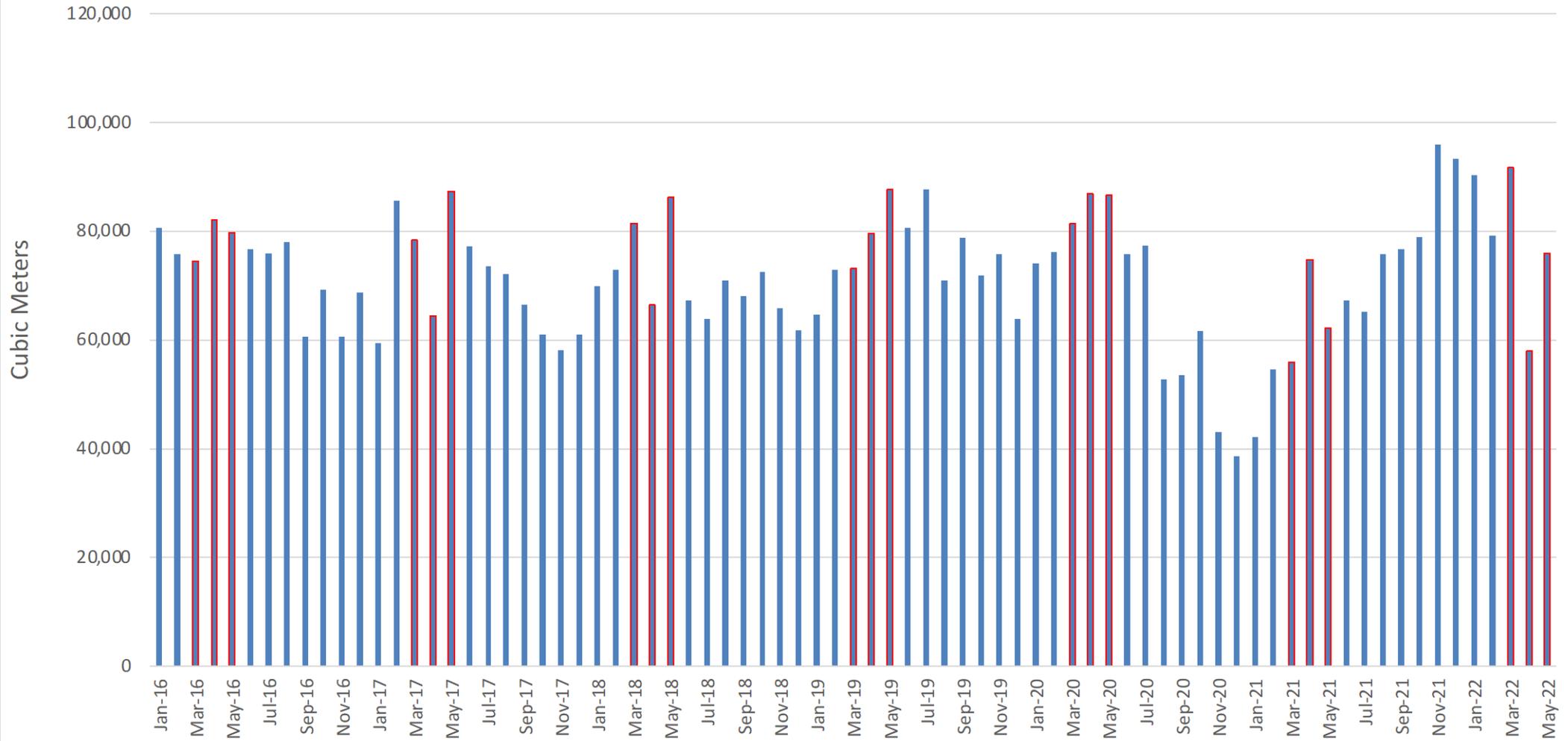
- Recent and planned changes will reduce the annual harvest in Western Oregon and Washington by more than 575 million board feet, or about nine percent of the combined harvest in both states.
- Nine percent equates to approximately eight average size mills.
 - Oregon 2020 Labor Day Fires (175 mmbf annually for 40 years)
 - Oregon Forest Accord (270 mmbf)
 - Washington DNR Sustainable Harvest Calculation (85 mmbf)
 - Oregon Department of Forestry Habitat Conservation Plan (45 mmbf)
- Plus, more reductions in British Columbia due to the Old Growth Strategic Review and 2.2 million acres burned in the summer of 2021.

Russian invasion of Ukraine

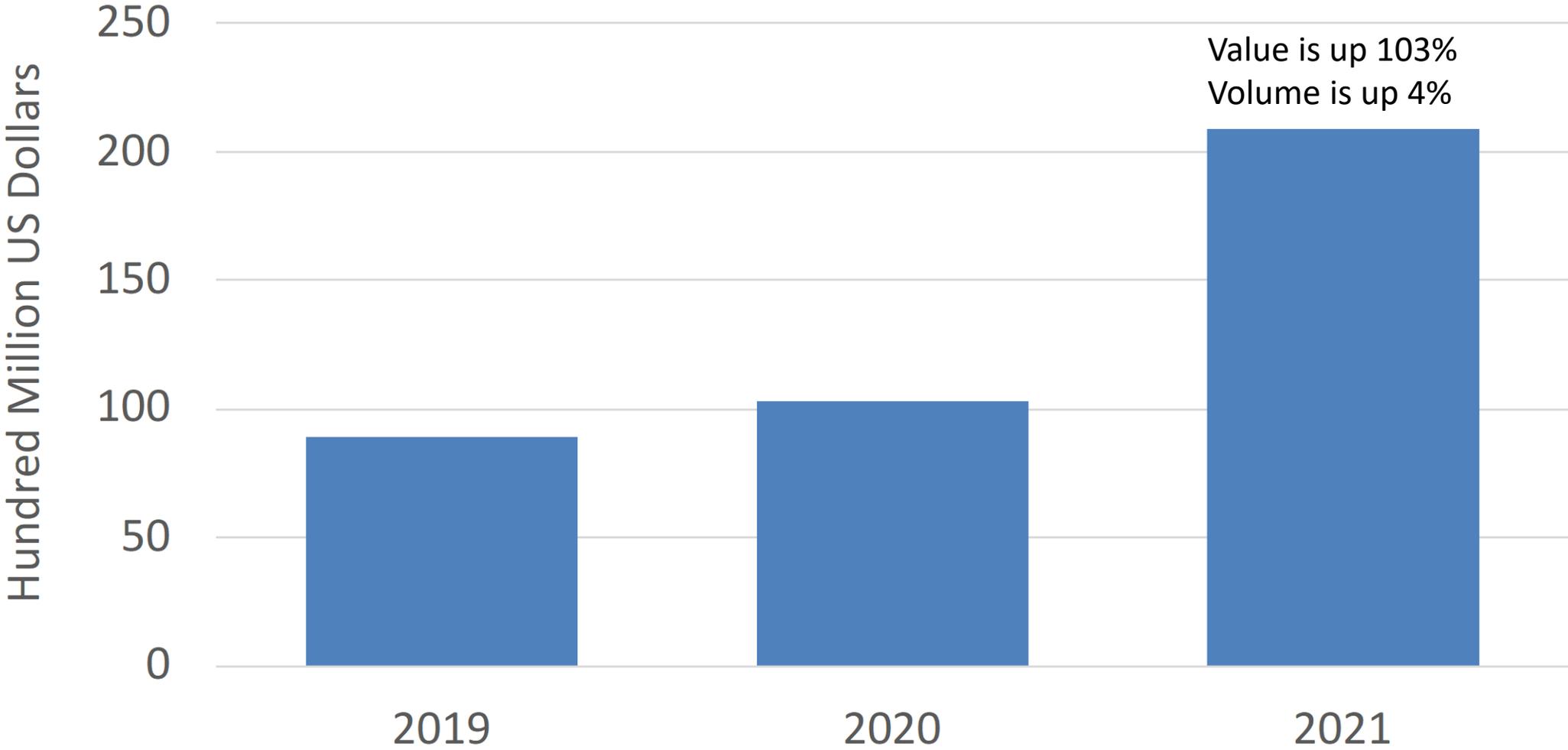
- Total lumber exports from Russia, Belarus, and Ukraine were 34 million m³ in 2021.
 - About half to China, 15.4 million m³
 - 9.3 million m³ to Europe
- Many countries have announced sanctions against Russia and Belarus.
- FSC and PEFC have labeled all timber from Russia and Belarus as “conflict timber”.
- It is estimated that Russia/Belarus exports may drop 10 million m³.

Japan Softwood Lumber Imports from Russia

Volume (Cubic Meters)

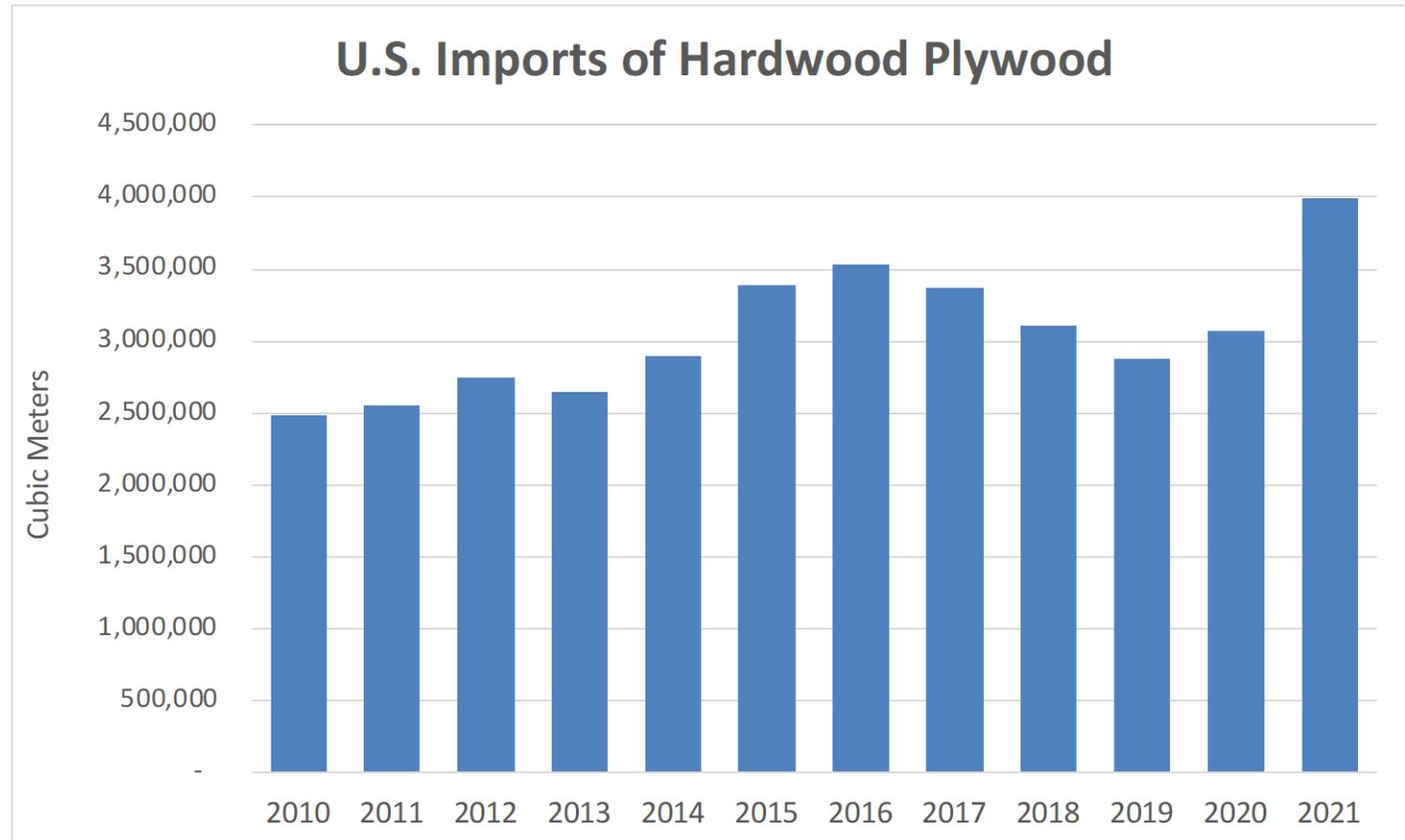


U.S. Imports of Hardwood Plywood from Russia June Year-to-Date

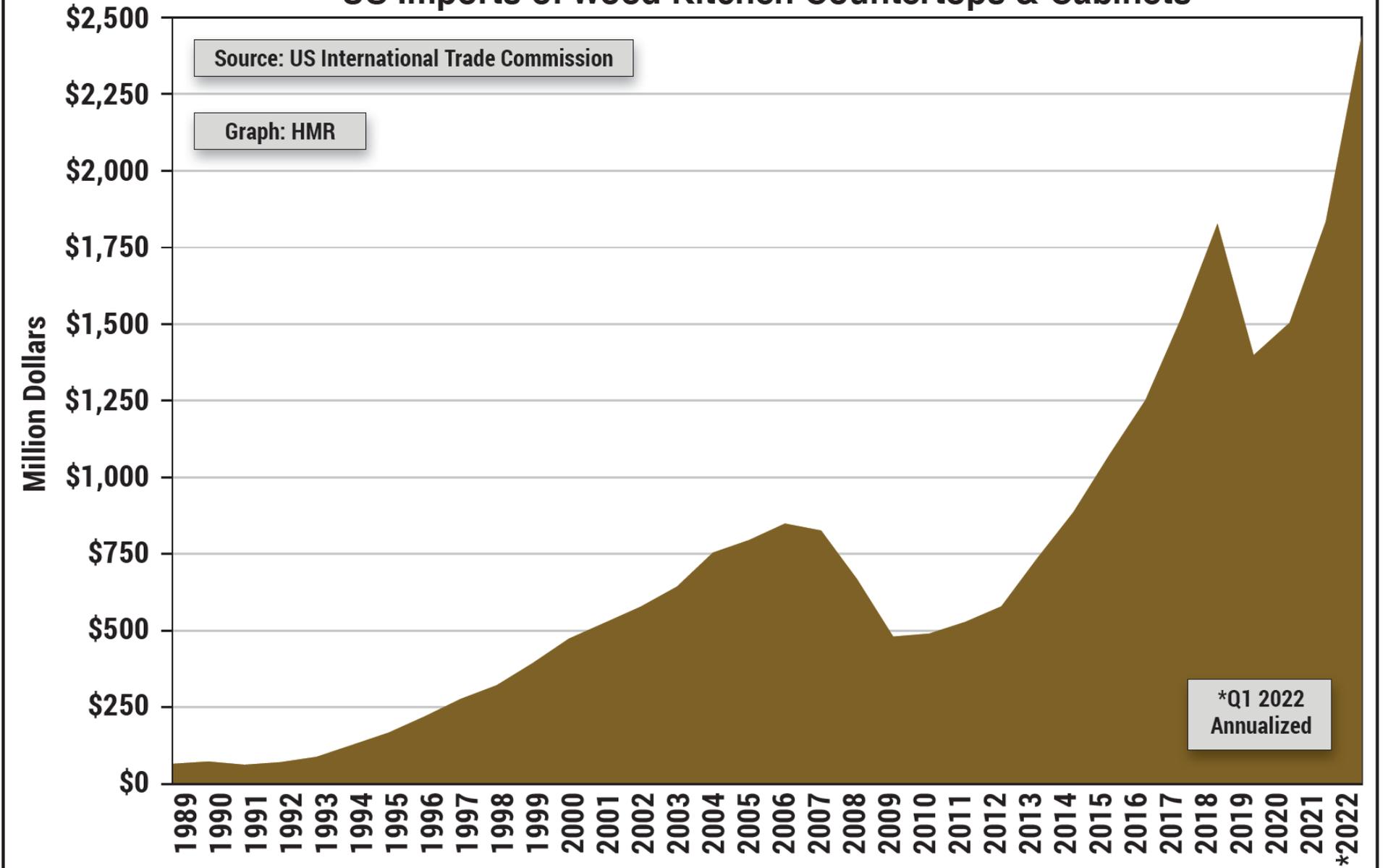


Hardwood plywood imports

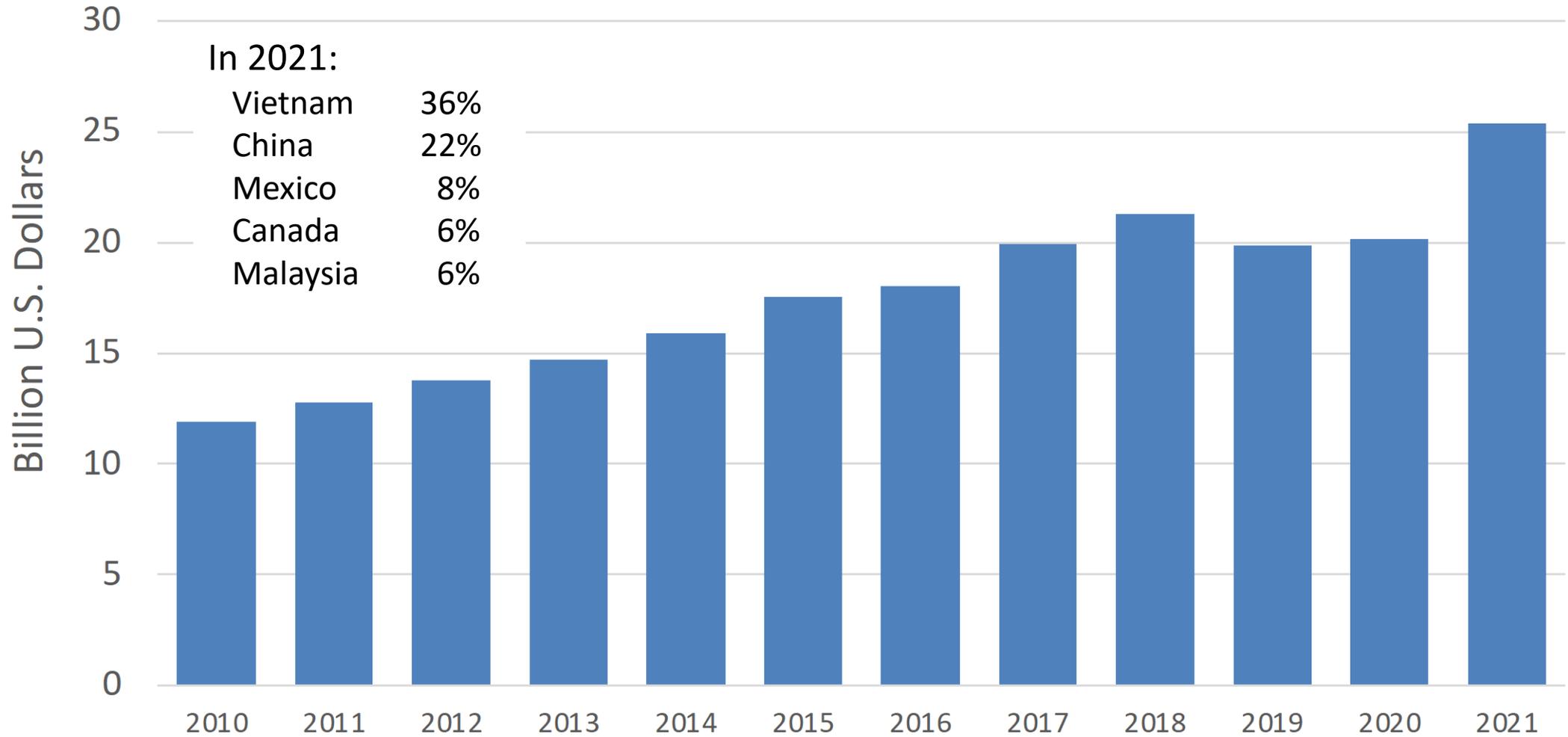
- \$2.86 billion in 2021
- 2022 1st half
 - Up 57% in value
 - Up 34% in volume
- In 2016 China was 57% of supply
- In 2021:
 - Indonesia 22%
 - Vietnam 22%
 - Russia 14%
 - China 6%



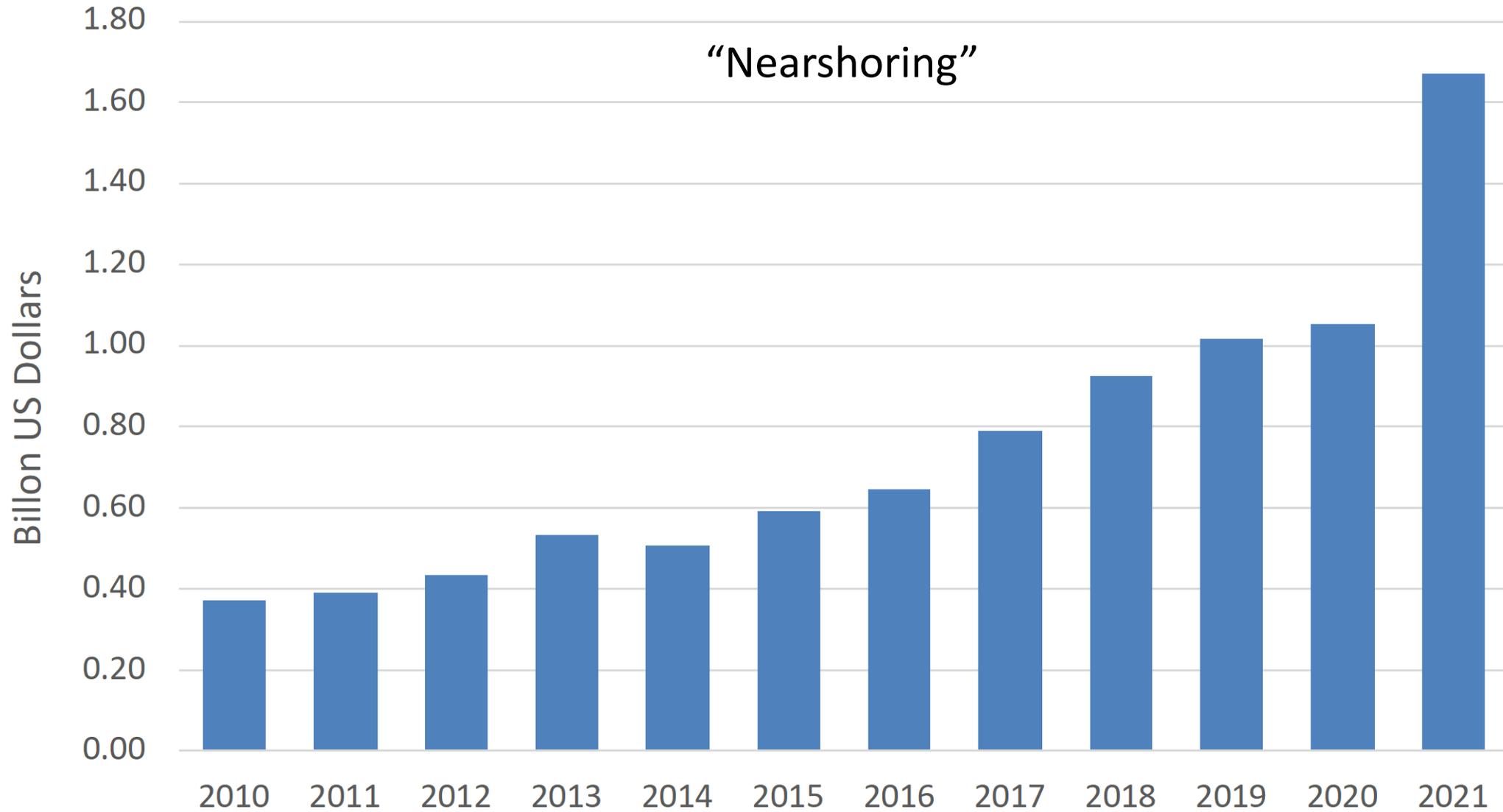
US Imports of Wood Kitchen Countertops & Cabinets



U.S. Wood Furniture Imports

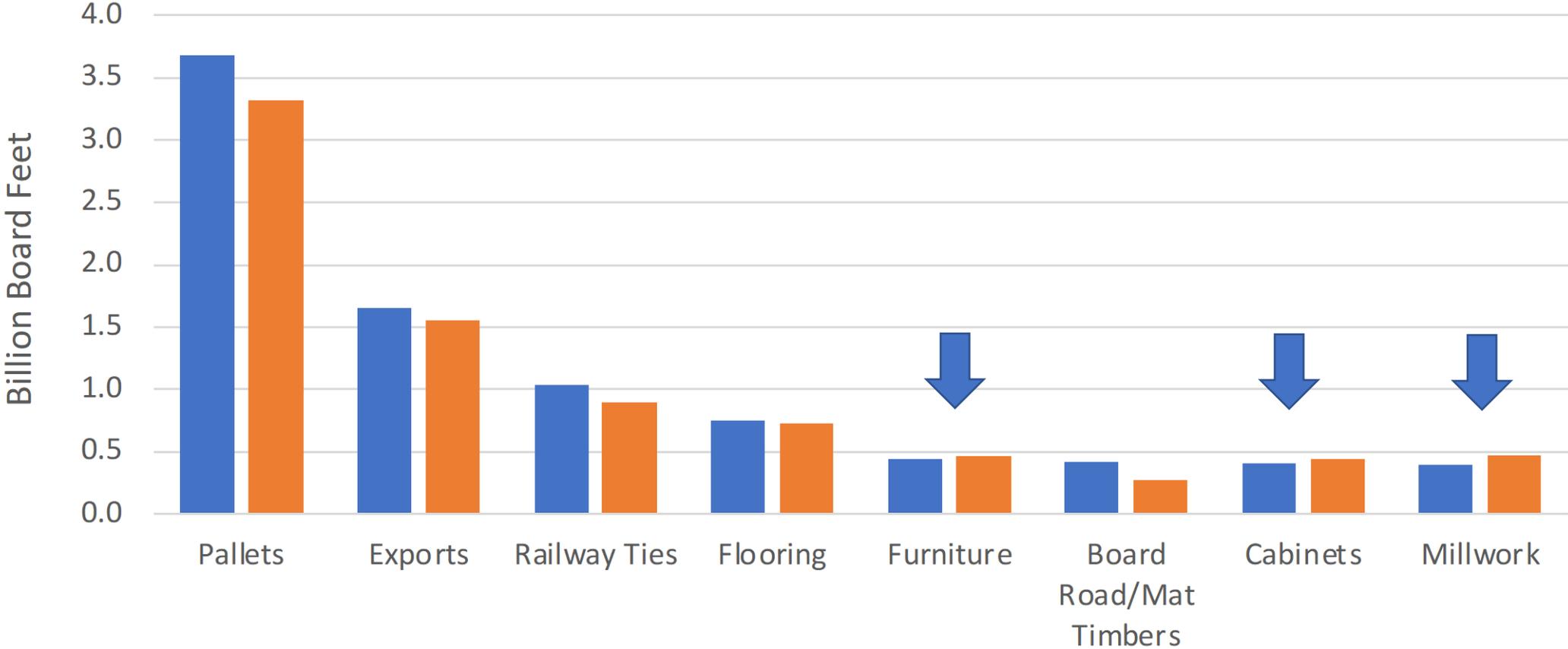


Mexico Wood Furniture Exports to the U.S.



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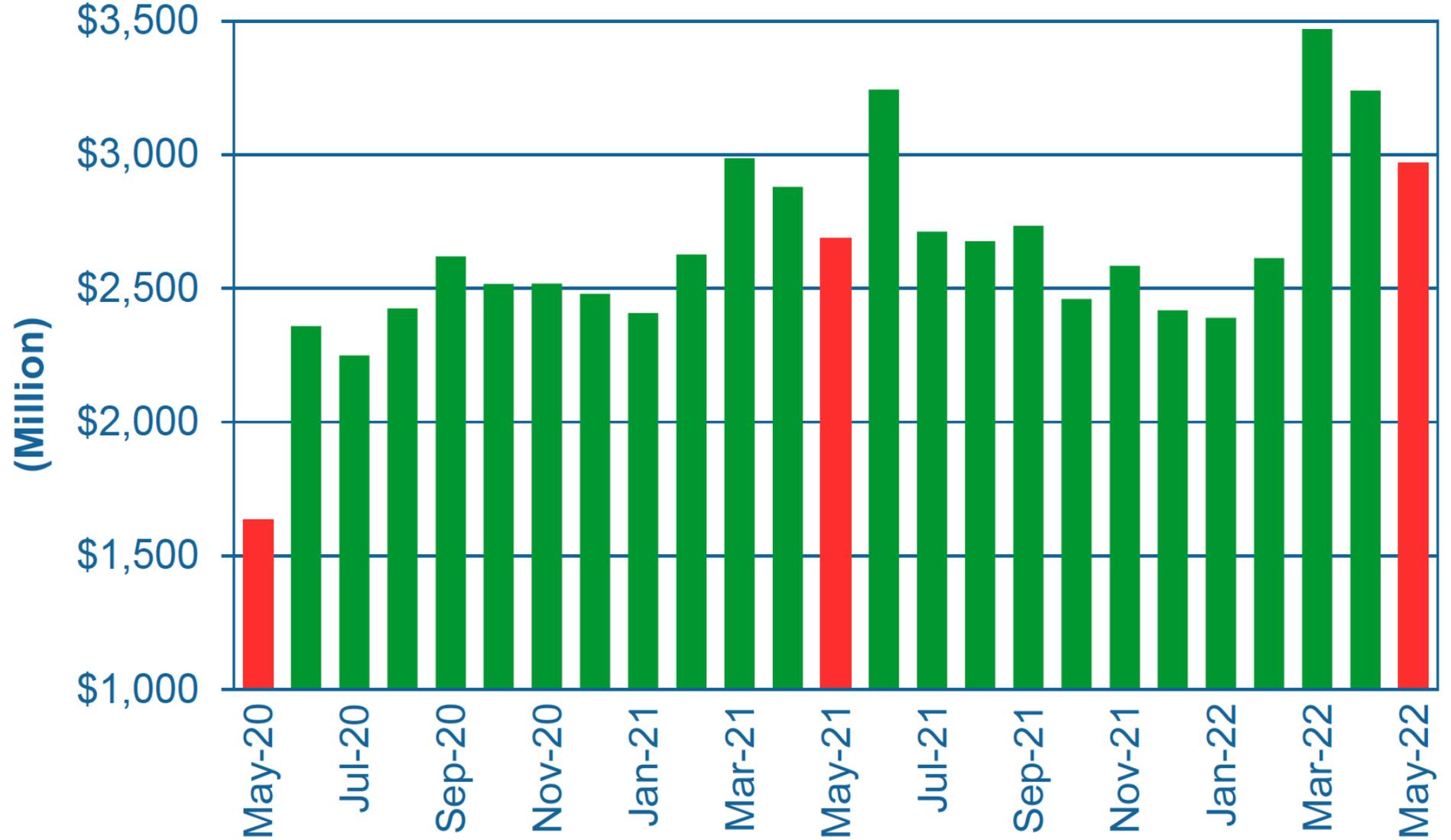
Reshoring furniture production

Over the past three years, 12,000 furniture jobs have been brought back to the U.S.



Reshoring Initiative
Bringing Manufacturing Back

U.S. Furniture Factory Shipments



Source: Smith Leonard PLLC

Summary

- Pressure on wood supply and prices will remain.
 - BC supply not coming back for a while.
 - U.S. West harvests decline due to fires, environmental initiatives, and carbon credits for delayed harvest.
- Housing construction and R&R spending will stay strong.
- Labor will remain tight – especially in trades.
- Europe’s domestic needs will increase as supply from Russia is suspended.
- Import options for the U.S. are limited.
- “High” lumber prices may be the new normal.



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**Thank
you!**