

# Lumber Production and Mill Stocks: 2001

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**SUMMARY OF FINDINGS.** Production of lumber in the United States amounted to 46.6 billion board feet in 2001, which is

5.7 percent below the 49.4 billion board feet in 2000. Eastern lumber production amounted to 29.2 billion board feet in 2001, 6.3 percent below the 2000 level of 31.2 billion board feet. Southern yellow pine production amounted to 15.9 billion board feet in 2001, 4.1 percent below the 2000 production level. Production of eastern hardwoods amounted to 10.9 billion board feet in 2001, 7.9 percent below the 2000 level. Western lumber production amounted to 17.4 billion board feet in 2001, a decline of 4.6 percent from the 2000 production level of 18.3 billion board feet. Production of western softwoods decreased by 4.6 percent to 16.9 billion board feet from 2000 to 2001. Total western hardwood production decreased by 7.3 percent to 480 thousand board feet.

For general CIR information, explanation of general terms and historical note, see the appendix.

Address inquiries concerning these data to Primary Goods Industries Branch, Manufacturing and Construction Division (MCD), Washington, DC 20233-6900, or call Dimetros W. Dammerna 301-457-1603.

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**Table 1. Lumber Production: 1995 to 2001**  
 [Millions of board feet, lumber tally]

Year	Total production	Total	Softwoods		Total hardwoods
			Southern yellow pine	Other	
2001.....	46,642	35,309	15,900	19,409	11,333
2000.....	49,445	37,147	16,588	20,559	12,298
1999.....	50,556	38,033	16,842	21,191	12,523
1998.....	47,263	35,896	15,557	20,339	11,367
1997.....	46,560	35,457	15,408	20,049	11,103
1996.....	44,755	34,065	15,060	19,005	10,690
1995.....	43,971	33,043	14,700	18,343	10,928

**Table 2. Lumber Mill Stocks: 1995 to 2001**  
 [Millions of board feet, lumber tally]

End-of-year	Total mill stocks	Softwoods		Hardwoods
2001.....	4,715	3,300		1,415
2000.....	4,772	3,373	r/	1,399
1999.....	4,674	3,253		1,421
1998.....	4,290	2,986		1,304
1997.....	4,333	3,114		1,219
1996.....	4,247	2,964		1,283
1995.....	4,633	3,297		1,336

r/Revised by 5 percent or more from previously published data.

Table 3. Lumber Production of Softwoods and Hardwoods by State: 2001 and 2000  
 [Millions of board feet, lumber tally]

State	Total		Softwoods		Hardwoods	
	2001	2000	2001	2000	2001	2000
United States.....	46,642	49,445	35,309	37,147	11,333	12,298
Eastern United States.....	29,220	31,177	18,367	19,397	10,853	11,780
Alabama.....	2,507	2,688	2,201	2,343	306	345
Arkansas.....	2,621	2,643	2,129	2,133	492	510
Connecticut.....	48	52	5	7	43	45
Delaware.....	14	15	-	-	14	15
Florida.....	860	751	(D)	(D)	(D)	(D)
Georgia.....	2,844	3,200	2,413	2,773	431	427
Illinois.....	128	121	-	-	128	121
Indiana.....	330	358	2	1	328	357
Iowa.....	81	88	(D)	(D)	(D)	(D)
Kansas.....	13	14	-	-	13	14
Kentucky.....	722	809	39	44	683	765
Louisiana.....	1,251	1,339	1,085	1,146	166	193
Maine.....	973	1,225	795	1,026	178	199
Maryland.....	261	293	103	109	158	184
Massachusetts.....	(D)	(D)	(D)	(D)	(D)	(D)
Michigan.....	706	681	249	198	457	483
Minnesota.....	268	303	131	148	137	155
Mississippi.....	2,792	2,920	2,327	2,395	465	525
Missouri.....	642	721	22	23	620	698
Nebraska.....	33	34	-	-	33	34
New Hampshire.....	280	340	198	256	82	84
New Jersey.....	20	19	2	2	18	17
New York.....	501	578	90	111	411	467
North Carolina.....	2,442 r/	2,310	1,750 r/	1,565	692	745
North Dakota.....	1	1	-	-	1	1
Ohio.....	360	393	-	1	360	392
Oklahoma.....	(D)	(D)	(D)	(D)	(D)	(D)
Pennsylvania.....	1,131	1,188	50	44	1,081	1,144
Rhode Island.....	10	11	3	3	7	8
South Carolina.....	1,539 r/	1,379	1,402 r/	1,233	137	146
Tennessee.....	896	954	36	40	860	914
Texas.....	1,485	1,642	1,277	1,390	208	252
Vermont.....	218	233	96	114	122	119
Virginia.....	1,583	1,545	728	702	855	843
West Virginia.....	718	804	13	6	705	798
Wisconsin.....	584	629	90	99	494	530
Western United States.....	17,422	18,268	16,942	17,750	480	518
Alaska.....	(D)	(D)	(D)	(D)	-	-
Arizona.....	60	68	60	68	-	-
California.....	3,011	3,287	(D)	(D)	(D)	(D)
Colorado.....	109	105	(D)	(D)	(D)	(D)
Hawaii.....	(D)	(D)	(Z)	(Z)	(D)	(D)
Idaho.....	1,697	1,945	1,697	1,945	-	-
Montana.....	1,190	1,340	1,190	1,340	-	-
Nevada.....	(Z)	(Z)	(Z)	(Z)	-	-
New Mexico.....	97	100	97	100	-	-
Oregon.....	6,069	6,078	5,936	5,938	133	140
South Dakota.....	(D)	(D)	(D)	(D)	-	-
Utah.....	51	105	51	105	-	-
Washington.....	4,705	4,663	4,366	4,302	339	361
Wyoming.....	197	172	197	172	-	-

- Represents zero. D Withheld to avoid disclosing data for individual companies. r/Revised by 5 percent or more from previously published data. Z Represents less than 500,000 board feet.

Table 4. Lumber Production by Species: 1997 to 2001  
 [Millions of board feet, lumber tally]

Product description	2001	2000	1999	1998	1997
United States.....	46,642	49,445	50,556	47,263	46,560
Eastern United States.....	29,220	31,177	31,701	29,727	29,105
Eastern softwoods.....	18,367	19,397	19,686	18,767	18,470
Pine, southern yellow.....	15,900	16,588	16,842	15,557	15,408
Pine, eastern white.....	633	712	712	600	556
Pine, other 1/.....	427	399	411	292	283
Spruce and fir 2/.....	482	687	676	637	617
Other eastern softwoods 3/.....	135	r/ 199	236	218	150
Eastern softwoods, n.s.k. ....	790	812	809	1,463	1,456
Eastern hardwoods.....	10,853	11,780	12,015	10,960	10,635
Ash.....	196	234	236	199	193
Beech.....	65	79	78	68	69
Birch.....	93	100	104	77	70
Cherry.....	225	242	249	208	195
Cottonwood.....	84	100	108	72	74
Aspen.....	131	148	166	128	142
Gum.....	200	241	247	204	195
Hickory and pecan.....	140	155	147	111	95
Maple, hard.....	499	512	515	450	437
Maple, soft.....	325	354	348	282	256
Oak, red.....	2,245	2,377	2,399	2,055	1,983
Oak, white.....	1,041	1,122	1,150	970	929
Walnut, black.....	48	49	43	26	25
Yellow-poplar.....	991	1,097	1,090	971	946
Other eastern hardwoods 4/.....	213	255	290	259	279
Mixed hardwoods 5/.....	1,259	1,415	1,538	1,289	1,195
Eastern hardwoods, n.s.k. ....	3,098	3,300	3,307	3,591	3,552
Western United States.....	17,422	18,268	18,855	17,536	17,455
Western softwoods.....	16,942	17,750	18,347	17,129	16,987
Cedar, western red.....	684	710	639	593	654
Cedar, other 6/.....	159	r/ 214	197	185	209
Fir, Douglas.....	7,965	8,197	8,167	7,406	7,082
Fir, hem-fir, white, and other.....	3,504	3,669	3,940	3,622	3,521
Pine, ponderosa.....	1,784	1,951	2,088	2,064	2,266
Pine, western white.....	36	39	36	31	40
Pine, lodgepole.....	494	570	664	707	671
Pine, sugar.....	155	r/ 128	159	139	173
Redwood.....	565	577	647	701	735
Spruce 7/.....	409	435	465	387	321
Other western softwoods 8/.....	751	810	892	826	852
Western softwoods, n.s.k. ....	436	450	453	468	463
Western hardwoods 9/.....	480	518	508	407	468

n.s.k. Not specified by kind. r/Revised by 5 percent or more from previously published data.

1/Includes jack pine and red (Norway) pine.

2/Includes balsam fir and eastern spruce.

3/Includes eastern red cedar, northern white cedar, southern white cedar, cypress, eastern hemlock, tamarack, and mixed softwoods.

4/Includes basswood, boxwood, butternut, elm, hackberry, and sycamore.

5/Mixed hardwoods includes mixed, ungraded hardwoods sawn for ties, timbers, blocking, cants, and pallet stock.

6/Includes Alaska cedar, incense cedar, and Port Orford cedar.

7/Includes Sitka and western/Engelmann spruce.

8/Includes western hemlock, western larch, and mixed softwoods.

9/Includes alder, aspen, birch, cottonwood, maple, oak, mixed hardwoods, and western hardwoods not specified.

Table 5. Lumber Production of Softwoods and Hardwoods by Lumber Industry Regions: 2001 and 2000  
 [Millions of board feet, lumber tally]

Lumber industry region	Total		Softwoods		Hardwoods	
	2001	2000	2001	2000	2001	2000
United States.....	46,642	49,445	35,309	37,147	11,333	12,298
Eastern lumber regions.....	29,220	31,177	18,367	19,397	10,853	11,780
Southern pine.....	15,900	16,588	15,900	16,588	-	-
Southern hardwood.....	4,839	5,303	-	-	4,839	5,303
Appalachian.....	(D)	(D)	(D)	(D)	(D)	(D)
Northern hemlock and hardwood.....	1,290	1,310	339	297	951	1,013
Northeastern.....	(D)	(D)	(D)	(D)	(D)	(D)
Other.....	1,821	1,936	724	758	1,097	1,178
Western lumber regions.....	17,422	18,268	16,942	17,750	480	518
Douglas fir.....	8,757	8,691	8,288	8,184	469	507
Western pine.....	(D)	(D)	(D)	(D)	(D)	(D)
California redwood.....	(D)	(D)	(D)	(D)	(D)	(D)
Alaska and Hawaii.....	(D)	(D)	(D)	(D)	(D)	(D)

- Represents zero. D Withheld to avoid disclosing data for individual companies.

Note:

**LUMBER INDUSTRY REGIONS:**

**Eastern lumber regions:**

Southern pine: Southern yellow pine.

Southern hardwood: All hardwoods in Alabama, Arkansas, Delaware, Florida, Louisiana, Mississippi, Missouri, Oklahoma, and Texas; and the lowland counties of Georgia, Kentucky, Maryland, North Carolina, South Carolina, Tennessee, and Virginia.

Appalachian: All hardwoods and softwoods, except southern yellow pine, in West Virginia and the Appalachian range counties of Georgia, Kentucky, Maryland, North Carolina, South Carolina, Tennessee, and Virginia.

Northern hemlock and hardwood: All hardwoods and softwoods, except southern yellow pine, in Michigan and Wisconsin.

Northeastern: All hardwoods and softwoods, except southern yellow pine, in Connecticut, Maine, Massachusetts, New Hampshire, New York, Pennsylvania, Rhode Island, and Vermont.

Other: All hardwoods and softwoods, except southern yellow pine, in Illinois, Indiana, Iowa, Kansas, Minnesota, Nebraska, New Jersey, North Dakota, and Ohio; all softwoods, except southern yellow pine, in the lowland counties of Georgia, Kentucky, Maryland, North Carolina, South Carolina, Tennessee, and Virginia; and all softwoods, except southern yellow pine, in Alabama, Arkansas, Delaware, Florida, Louisiana, Mississippi, Missouri, Oklahoma, and Texas.

**Western lumber regions:**

Douglas fir: All softwoods and hardwoods in Oregon and Washington west of the Cascades, and in Jackson and Josephine counties in Oregon.

Western pine: All softwoods and hardwoods in Oregon and Washington east of the Cascades, except in Jackson and Josephine counties in Oregon; in California, except in the California redwood counties; and in Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, South Dakota, Utah, and Wyoming.

California redwood: All softwoods and hardwoods in the following fifteen counties of California: Alameda, Contra Costa, Del Norte, Humboldt, Marin, Mendocino, Monterey, Napa, San Benito, San Francisco, San Mateo, Santa Clara, Santa Cruz, Solano, and Sonoma.

Alaska and Hawaii: All softwoods and hardwoods in Alaska and Hawaii.

Table 6. Production, Exports, Imports, and Apparent Consumption of Lumber by Species: 2001 and 2000  
 [Thousands of cubic meters]

Product code	Product description	Production 1/	Exports of domestic merchandise 2/	Percent exports to production	Imports for consumption 2/	Apparent consumption 3/	Percent imports to apparent consumption
2001							
	United States.....	110,061	4,741	4.3	48,353	153,673	31.5
	Softwoods 4/.....	83,320	2,108	2.5	46,928	128,140	36.6
	Pine.....	45,848	876	1.9	2,034	47,006	4.3
3211133933	Lodgepole pine.....	1,166	17	1.5	68	1,217	5.6
3211133929	Ponderosa pine .....	4,210	84	2.0	77	4,203	1.8
3211133911, 13, 15, 31, 35	Other pine, including southern yellow and eastern white pine.....	40,472	775	1.9	1,889	41,586	4.5
3211133925	Douglas fir.....	18,795	353	1.9	1,113	19,555	5.7
3211133921	Western red cedar.....	1,614	27	1.7	1,478	3,065	48.2
3211133917, 19, 23, 27, 37, 39, 41, 43	Other softwoods, including hemlock, spruce, fir (other than Douglas fir), cedar (other than western red cedar), and mixed softwoods.....	14,170	852	6.0	42,303	55,621	76.1
32111339XX	Softwoods, n.s.k. ....	2,893	(X)	(X)	(X)	2,893	(X)
	Hardwoods 4/.....	26,741	2,633	9.8	1,425	25,533	5.6
3211131951	Ash.....	463	131	28.3	10	342	2.9
3211131953	Beech.....	153	6	3.9	6	153	3.9
3211131955	Birch.....	219	39	17.8	116	296	39.2
3211131957	Cherry.....	531	158	29.8	7	380	1.8
3211131965	Hickory and pecan.....	330	22	6.7	3	311	1.0
3211131967, 69	Maple.....	1,944	365	18.8	222	1,801	12.3
3211131971	Red oak.....	5,298	549	10.4	21	4,770	0.4
3211131973	White oak.....	2,456	538	21.9	14	1,932	0.7
3211131975	Black walnut.....	113	60	53.1	3	56	5.4
3211131977	Yellow-poplar.....	2,338	225	9.6	2	2,115	0.1
3211131959, 61, 63, 79, 81, 83	Other hardwoods, including cottonwood, aspen, gum, and mixed hardwoods.....	5,501	540	9.8	1,021	5,982	17.1
32111319XX	Hardwoods, n.s.k. ....	7,395	(X)	(X)	(X)	7,395	(X)
2000							
	United States.....	116,678	5,974	5.1	47,093	157,797	29.8
	Softwoods 4/.....	87,657	3,025	3.5	45,410	130,042	34.9
	Pine.....	48,108	1,225	2.5	2,002	48,885	4.1
3211133933	Lodgepole pine.....	1,345	33	2.5	125	1,437	8.7
3211133929	Ponderosa pine .....	4,604	126	2.7	79	4,557	1.7
3211133911, 13, 15, 31, 35	Other pine, including southern yellow and eastern white pine.....	42,159	1,066	2.5	1,798	42,891	4.2
3211133925	Douglas fir.....	19,343	547	2.8	1,075	19,871	5.4
3211133921	Western red cedar.....	1,675	63	3.8	1,535	3,147	48.8
3211133917, 19, 23, 27, 37, 39, 41, 43	Other softwoods, including hemlock, spruce, fir (other than Douglas fir), cedar (other than western red cedar), and mixed softwoods.....	15,553	1,190	7.7	40,798	55,161	74.0

Table 6. Production, Exports, Imports, and Apparent Consumption of Lumber by Species: 2001 and 2000  
 [Thousands of cubic meters]

Product code	Product description	Production 1/	Exports of domestic merchandise 2/	Percent exports to production	Imports for consumption 2/	Apparent consumption 3/	Percent imports to apparent consumption
32111339XX	Softwoods, n.s.k. ....	2,978	(X)	(X)	(X)	2,978	(X)
	Hardwoods 4/.....	29,021	2,949	10.2	1,683	27,755	6.1
3211131951	Ash.....	552	146	26.4	11	417	2.6
3211131953	Beech.....	186	14	7.5	13	185	7.0
3211131955	Birch.....	236	35	14.8	102	303	33.7
3211131957	Cherry.....	571	178	31.2	20	413	4.8
3211131965	Hickory and pecan.....	366	18	4.9	2	350	0.6
3211131967, 69	Maple.....	2,044	452	22.1	269	1,861	14.5
3211131971	Red oak.....	5,609	653	11.6	18	4,974	0.4
3211131973	White oak.....	2,648	577	21.8	15	2,086	0.7
3211131975	Black walnut.....	116	41	35.3	2	77	2.6
3211131977	Yellow-poplar.....	2,589	254	9.8	2	2,337	0.1
3211131959, 61, 63, 79, 81, 83	Other hardwoods, including cottonwood, aspen, gum, and mixed hardwoods.....	6,230	581	9.3	1,229	6,878	17.9
32111319XX	Hardwoods, n.s.k. ....	7,874	(X)	(X)	(X)	7,874	(X)

n.s.k. Not specified by kind. X Not applicable.

1/Import and export data were collected in cubic meters. A conversion factor of 2.35973725 thousands of cubic meters per 1 million of board feet was used to convert production from millions of board feet to thousands of meters.

2/Import and export data for 2001 and 2000 do not include cross-ties.

3/Apparent consumption is equal to production plus imports minus exports.

4/Totals for softwoods and hardwoods include the n.s.k. production data.

Note: For a comparison of North American Industry Classification System (NAICS)-based product codes with Schedule B export codes and HTSUSA import codes, see Table 7.

Table 7. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes and HTSUSA Import Codes: 2001

Product code	Product description	Export codes	Import codes
3211133933	Lodgepole pine.....	4407.10.0044 4407.10.0045	4407.10.0044 4407.10.0045
3211133929	Ponderosa pine.....	4407.10.0048 4407.10.0049	4407.10.0048 4407.10.0049
3211133911, 13, 15, 31, 35	Other pine, including southern yellow and eastern white pine.....	4407.10.0042 4407.10.0043 4407.10.0046 4407.10.0047 4407.10.0052 4407.10.0053	4407.10.0042 4407.10.0043 4407.10.0046 4407.10.0047 4407.10.0052 4407.10.0053
3211133925	Douglas fir.....	4407.10.0054 4407.10.0055 4407.10.0056 4407.10.0057	4407.10.0054 4407.10.0055 4407.10.0056 4407.10.0057
3211133921	Western red cedar.....	4407.10.0068 4407.10.0069	4407.10.0068 4407.10.0069
3211133917, 19, 23, 27, 37, 39, 41, 43	Other softwoods, including hemlock, spruce, fir (other than Douglas fir), cedar (other than western red cedar), and mixed softwoods.....	4407.10.0001 4407.10.0002 4407.10.0015 4407.10.0016 4407.10.0017 4407.10.0018 4407.10.0019 4407.10.0020 4407.10.0058 4407.10.0059 4407.10.0064 4407.10.0065 4407.10.0066 4407.10.0067 4407.10.0074 4407.10.0075 4407.10.0076 4407.10.0077 4407.10.0082 4407.10.0083 4407.10.0092 4407.10.0093	4407.10.0001 4407.10.0002 4407.10.0015 4407.10.0016 4407.10.0017 4407.10.0018 4407.10.0019 4407.10.0020 4407.10.0058 4407.10.0059 4407.10.0064 4407.10.0065 4407.10.0066 4407.10.0067 4407.10.0074 4407.10.0075 4407.10.0076 4407.10.0077 4407.10.0082 4407.10.0083 4407.10.0092 4407.10.0093
3211131951	Ash.....	4407.99.0065 4407.99.0066	4407.99.0065 4407.99.0066
3211131953	Beech.....	4407.92.0020 4407.92.0040	4407.92.0020 4407.92.0040
3211131955	Birch.....	4407.99.0050 4407.99.0051	4407.99.0050 4407.99.0051
3211131957	Cherry.....	4407.99.0040 4407.99.0041	4407.99.0040 4407.99.0041
3211131965	Hickory and pecan.....	4407.99.0070 4407.99.0071	4407.99.0070 4407.99.0071

Table 7. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes and HTSUSA Import Codes: 2001

Product code	Product description	Export codes	Import codes
3211131967, Maple 69	.....	4407.99.0020	4407.99.0020
		4407.99.0021	4407.99.0021
		4407.99.0025	4407.99.0025
3211131971 Red oak	.....	4407.91.0020	4407.91.0020
		4407.91.0021	4407.91.0021
3211131973 White oak	.....	4407.91.0060	4407.91.0060
		4407.91.0061	4407.91.0061
3211131975 Black walnut	.....	4407.99.0075	4407.99.0075
		4407.99.0076	4407.99.0076
3211131977 Yellow-poplar	.....	4407.99.0045	4407.99.0045
		4407.99.0046	4407.99.0046
3211131959, Other hardwoods, including cottonwood, aspen, and gum 61, 63, 79, 81, 83	.....	4407.24.0000	
			4407.24.0005
			4407.24.0010
			4407.24.0025
			4407.24.0030
			4407.24.0090
			4407.24.0095
			4407.25.0000
			4407.26.0000
			4407.26.0000
			4407.29.0000
			4407.29.0005
			4407.29.0010
			4407.29.0025
			4407.29.0030
			4407.29.0090
	4407.29.0095		
	4407.99.0030		
	4407.99.0031		
	4407.99.0031		
	4407.99.0047		
	4407.99.0048		
	4407.99.0090		
	4407.99.0091		
	4407.99.0095		
	4407.99.0096		

Sources: 2001 edition, Harmonized System-based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States; Harmonized Tarriff Schedule of the United States, Annotated (2001).

# Appendix.

## General CIR Survey Information, Explanation of General Terms and Historical Note

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### GENERAL

The CIR program has been providing monthly, quarterly, and annual measures of industrial activity for many years. Since 1904, with its cotton and fats and oils surveys, the CIR program has formed an essential part of an integrated statistical system involving the quinquennial economic census, manufacturing sector, and the annual survey of manufactures. The CIR surveys, however, provide current statistics at a more detailed product level than either of the other two statistical programs.

The primary objective of the CIR program is to produce timely, accurate data on production and shipments of selected products. The data are used to satisfy economic policy needs and for market analysis, forecasting, and decision making in the private sector. The product-level data generated by these surveys are used extensively by individual firms, trade associations, and market analysts in planning or recommending marketing and legislative strategies, particularly if their industry is significantly affected by foreign trade. Although production and shipments information are the two most common data items collected, the CIR program collects other measures also such as inventories, orders, and consumption. These surveys measure manufacturing activity in important commodity areas such as textiles and apparel, chemicals, primary metals, computer and electronic components, industrial equipment, aerospace equipment, and consumer goods.

The CIR program uses a unified data collection, processing, and publication system. The U.S. Census Bureau updates the survey panels for most reports annually and reconciles the estimates to the results of the broader-based annual survey of manufactures and the economic census, manufacturing sector. The manufacturing sector provides a complete list of all producers of the products covered by the CIR program and serves as the primary source for CIR sampling. Where a small number of producers exist, CIR surveys cover all known producers of a product. However, when the number of producers is too large, cutoff and random sampling techniques are used. Surveys are continually reviewed and modified to provide the most up-to-date information on products produced. The CIR program includes a group of mandatory and voluntary surveys. Typically the monthly and quarterly surveys are conducted on a voluntary basis. Those companies that choose not to respond to the voluntary surveys are required to submit a mandatory annual counterpart corresponding to the more frequent survey.

### NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS), 1997

The adoption of the North American Industry Classification System (NAICS) in the 1997 Economic Census has had a major impact on the comparability of current and historic data. Approximately half of the industries in the manufacturing sector of NAICS do not have comparable industries in the Standard Industrial Classification (SIC) system that was used in the past.

While most of the change affecting the manufacturing sector was change within the sector, some industries left manufacturing and others came into manufacturing. Prominent among those that left manufacturing are logging and portions of publishing. Prominent among the industries that came into the manufacturing sector are bakeries, candy stores where candy is made on the premises, custom tailors, makers of custom draperies, and tire retreading. The net effect of the classification changes are such that if the 1997 value of shipments data for all manufacturers were tabulated on an SIC basis, it would be approximately 3 percent higher.

Listed below are the NAICS sectors:

- 21 Mining
- 22 Utilities
- 23 Construction
- 31-33 Manufacturing
- 42 Wholesale Trade
- 44-45 Retail Trade
- 48-49 Transportation and Warehousing
- 51 Information
- 52 Finance and Insurance
- 53 Real Estate and Rental and Leasing
- 54 Professional, Scientific, and Technical Services
- 55 Management of Companies and Enterprises
- 56 Administrative and Support and Waste Management and Remediation Services
- 61 Educational Services
- 62 Health Care and Social Assistance
- 71 Arts, Entertainment, and Recreation
- 72 Accommodation and Food Services
- 81 Other Services (except Public Administration)

(Not listed above are the Agriculture, Forestry, Fishing, and Hunting sector (NAICS 11), partially covered by the census of agriculture conducted by the U.S. Department of Agriculture, and the Public Administration sector (NAICS 92), covered by the census of governments conducted by the Census Bureau.)

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The 20 NAICS sectors are subdivided into 96 subsectors (three-digit codes), 313 industry groups (four-digit codes), and, as implemented in the United States, 1170 industries (five- and six-digit codes).

## FUNDING

The Census Bureau funds most of the surveys. However, a number of surveys are paid for either fully or partially by other Federal Government agencies or private trade associations. A few surveys are mandated, but all are authorized by Title 13 of the United States Code.

## RELIABILITY OF DATA

Survey error may result from several sources including the inability to obtain information about all cases in the survey, response errors, definitional difficulties, differences in the interpretation of questions, mistakes in recording or coding the reported data, and other errors of collection, response, coverage, and estimation. These nonsampling errors also occur in complete censuses. Although no direct measurement of the biases due to these nonsampling errors has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize their influence.

A major source of bias in the published estimates is the imputing of data for nonrespondents, for late reporters, and for data that fail logic edits. Missing figures are imputed based on period-to-period movements shown by reporting firms. A figure is considered to be an impute if the value was not directly reported on the questionnaire, directly derived from other reported items, directly available from supplemental sources, or obtained from the respondent during the analytical review phase. Imputation generally is limited to a maximum of 10 percent for any one data cell. Figures with imputation rates greater than 10 percent are suppressed or footnoted. The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, because the actual yearly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is assumed to be small. The degree of uncertainty regarding the accuracy of the published data increases as the percentage of imputation increases. Figures with imputation rates above 10 percent should be used with caution.

## DATA REVISIONS

Statistics for previous years may be revised as the result of corrected figures from respondents, late reports for which imputations were originally made, or other corrections. Data that have been revised by more than 5 percent from previously published data are indicated by footnotes.

## DISCLOSURE

The Census Bureau collects the CIR data under the authority of Title 13, United States Code, which specifies that the information can only be used for statistical purposes and cannot be published or released in any manner that would identify a person, household, or establishment. "D" indicates that data in the cell have been suppressed to avoid disclosure of information pertaining to individual companies.

## EXPLANATION OF GENERAL TERMS

**Capacity.** The maximum quantity of a product that can be produced in a plant in 1 day if operating for 24 hours. Includes the capacity of idle plants until the plant is reported to be destroyed, dismantled, or abandoned.

**Consumption.** Materials used in producing or processing a product or otherwise removing the product from the inventory.

**Exports.** Includes all types of products shipped to foreign countries, or to agents or exporters for reshipment to foreign countries.

**Gross shipments.** The quantity or value of physical shipments from domestic establishments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale or use. Shipments of products purchased for resale are omitted. Shipments of products made under toll arrangements are included.

**Interplant transfers.** Shipments to other domestic plants within a company for further assembly, fabrication, or manufacture.

**Inventories.** The quantity or value of finished goods, work in progress, and materials on hand.

**Machinery in place.** The number of machines of a particular type in place as of a particular date whether the machinery was used for production, prototype, or sampling, or was idle. Machinery in place includes all machinery set up in operating positions.

**Net receipts.** Derived by subtracting the materials held at the end of the previous month from the sum of materials used during the current month.

**Production.** The total volume of products produced, including: products sold; products transferred or added to inventory after adjustments for breakage, shrinkage, and obsolescence, plus any other inventory adjustment; and products that undergo further manufacture at the same establishment.

**Quantities produced and consumed.** Quantities of each type of product produced by a company for internal consumption within that same company.

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**Quantity and value of new orders.** The sales value of orders received during the current reporting period for products and services to be delivered immediately or at some future date. Also represents the net sales value of contract change documents that increase or decrease the sales value of the orders to which they are related, when the parties concerned are in substantial agreement as to the amount involved. Included as orders are only those that are supported by binding legal documents such as signed contracts or letter contracts.

**Quantity and value of shipments.** The figures on quantity and value of shipments represent physical shipments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped,

net of discounts, allowances, freight charges, and returns. Shipments to a company's own branches are assigned the same value as comparable appropriate allocation of company overhead and profit. Products bought and resold without further manufacture are excluded.

**Stocks.** Total quantity of ending finished inventory.

**Unfilled orders (backlog).** Calculated by adding net new orders and subtracting net sales from the backlog at the end of the preceding year.

#### **HISTORICAL NOTE**

Data on lumber production and stocks have been collected by the Census Bureau since 1904. Historical data may be obtained from Current Industrial Reports (called Facts for Industry before 1959) available at your local Federal Depository Library.