

Nicholas A. Adams, Jr.
 V.P., Statistics & Business Information
 Tel: 1-703-358-2984
 Fax: 1-703-358-2961
 E-mail: nadams@aluminum.org

Henry F. Sattlethight
 Manager, Statistical Programs
 Tel: 1-703-358-2985
 Fax: 1-703-358-2961
 E-mail: hsattlethight@aluminum.org

U.S. AND CANADIAN FOUNDRY SHIPMENTS OF ALUMINUM CASTINGS

Report for 2009

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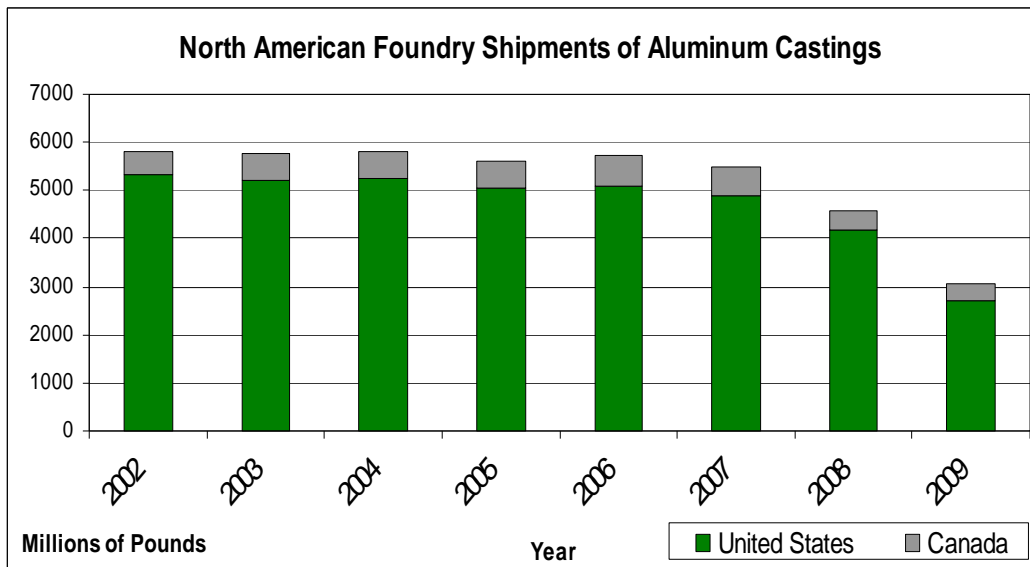
Based on survey responses from 267 foundries in the United States and 48 foundries in Canada, estimated North American (excluding Mexico) shipments of aluminum castings totaled 3,043.6 million pounds during 2009, a drop of 33.4 percent from the 2008 estimated total of 4,569.1 million pounds.

The figures in this report are full industry estimates based on surveys received from participating foundries. The 267 participating U.S. foundries account for 42.1% of the estimated U.S. total, and the 48 participating Canadian foundries account for 30.0% of the estimated Canadian total.

U.S. AND CANADIAN FOUNDRY SHIPMENTS OF ALUMINUM CASTINGS BY YEAR
(MILLIONS OF POUNDS)

Year	United States	Canada	North America	% Chng Curr YR/Prev YR
2002	5,334.4	467.1	5,801.2	--
2003	5,220.9	447.3	5,668.2	-0.6
2004	5,216.8	538.3	5,755.1	0.5
2005	5,046.4	575.6	5,622.0	-3.0
2006	5,094.1	622.1	5,716.2	1.7
2007	4,910.2	576.0	5,486.2	-4.0
2008	4,178.3	390.8	4,569.1	-16.7
2009	2,719.8	323.8	3,043.6	-33.4

Note: Figures in this report may not add to totals shown due to rounding.



This report is prepared by The Aluminum Association based on the results of surveys conducted by an independent research firm. The research firm surveys a panel of foundries and expands the survey results to an estimated industry total. While the Association believes that its statistical procedures and methods are reliable, it does not warrant the accuracy or completeness of the data. All data contained herein are subject to revision. © The Aluminum Association, Inc.

U.S. FOUNDRY SHIPMENTS OF ALUMINUM CASTINGS BY INDUSTRY

Based on survey responses from 267 foundries in the U.S., shipments of aluminum wheels by U.S. foundries totaled an estimated 527.6 million pounds during 2009, off 13.5 percent from the 2008 total of 609.7 million pounds, while shipments to all other automotive¹ applications totaled 1,155.5 million pounds, a drop of 41.9 percent from the 2008 total of 1,989.1 million pounds. Shipments to all other industries² totaled 1,036.7 million pounds, a decrease of 34.4 percent from the 2008 total of 1,579.5 million pounds.

U.S. FOUNDRY SHIPMENTS OF ALUMINUM CASTINGS BY MAJOR MARKET								
(MILLIONS OF POUNDS)								
Year	Transportation				Consumer Durables	Machinery and Equipment	All Other Industries	Total
	Aluminum Wheels	Passenger Car & Light Truck	Truck and Bus	All Other Trans.				
2002	988.1	2,400.9	325.9	65.5	472.3	224.6	857.0	5,334.4
2003	957.3	2,388.8	350.4	87.0	366.6	242.2	828.6	5,220.9
2004	939.6	2,571.3	349.4	162.1	364.7	205.2	664.5	5,256.8
2005	865.5	2,624.7	394.4	163.5	298.6	210.4	489.4	5,046.4
2006	882.9	2,635.8	441.0	106.4	342.7	238.4	446.8	5,094.1
2007	794.4	2,480.9	442.2	90.2	400.6	288.3	413.6	4,910.2
2008	609.7	1,989.1	344.6	94.1	487.6	278.3	375.0	4,178.3
2009	527.6	1,155.5	151.3	79.2	374.7	167.9	263.5	2,719.8
Percent Change 2009/2008	-13.5%	-41.9%	-56.1%	-15.8%	-23.1%	-39.6%	-29.7%	-34.9%

Of the estimated 2,719.8 million pounds of aluminum castings shipped by U.S. foundries during 2009, about 19.4 percent was cast as wheels, 42.5 percent was used in all other automotive applications, and 38.1 percent was used in all other industries. These results compare to the 2008 distribution of 14.6 percent used as wheels, 47.6 percent used in all other automotive applications, and 37.8 percent used in industries other than wheels and automotive.

U.S. FOUNDRY SHIPMENTS OF ALUMINUM CASTINGS BY MAJOR MARKET							
(PERCENTAGE)							
Year	Transportation				Consumer Durables	Machinery and Equipment	All Other Industries
	Aluminum Wheels	Passenger Car & Light Truck	Truck and Bus	All Other Trans.			
2002	18.5%	45.0%	6.1%	1.2%	8.9%	4.2%	16.1%
2003	18.3%	45.8%	6.7%	1.7%	7.0%	4.6%	15.9%
2004	17.9%	48.9%	6.6%	3.1%	6.9%	3.9%	12.6%
2005	17.2%	52.0%	7.8%	3.2%	5.9%	4.2%	9.7%
2006	17.3%	51.7%	8.7%	2.1%	6.7%	4.7%	8.8%
2007	16.2%	50.5%	9.0%	1.8%	8.2%	5.9%	8.4%
2008	14.6%	47.6%	8.2%	2.3%	11.7%	6.7%	9.0%
2009	19.4%	42.5%	5.6%	2.9%	13.8%	6.2%	9.7%

Footnotes

¹ Passenger cars and light trucks; does not include wheels.

² All Other Industries include: consumer durables, machinery & equipment, electrical applications, truck and bus, other transportation applications, exports, and all other applications not elsewhere specified.

SEE THE SUPPLEMENTAL DATA FILE FOR DETAILS

U.S. FOUNDRY SHIPMENTS OF ALUMINUM CASTINGS BY METHOD

Shipments of die castings by U.S. foundries totaled an estimated 1,523.0 million pounds during 2009, down 32.7 percent from 2008 total of 2,264.6 million pounds. Shipments of permanent mold castings totaled 832.2 million pounds, a decrease of 33.7 percent from the 2008 total of 1,255.8 million pounds, and shipments of sand castings totaled 352.4 million pounds, off 37.2 percent from 2008 total of 561.1 million pounds.

U.S. FOUNDRY SHIPMENTS OF ALUMINUM CASTINGS BY CASTING METHOD					
(MILLIONS OF POUNDS)					
Year	Die Casting	Permanent Mold	Sand Casting	All Other	Total
1998	2,641.3	1,649.4	459.0	170.9	4,920.6
1999	2,924.0	1,645.9	547.6	209.5	5,327.0
2000	2,931.4	1,765.5	538.1	305.7	5,540.8
2001	2,611.2	1,402.5	506.6	327.6	4,847.8
2002	2,784.5	1,481.5	613.7	454.6	5,334.4
2003	2,633.2	1,536.1	632.8	418.9	5,220.9
2004	2,779.9	1,629.5	489.3	358.1	5,256.8
2005	2,441.1	1,730.6	636.9	237.8	5,046.4
2006	2,574.3	1,663.3	738.8	117.7	5,094.1
2007	2,782.6	1,356.0	694.4	77.2	4,910.2
2008	2,264.6	1,255.8	561.1	96.7	4,178.3
2009	1,523.0	832.2	352.4	12.1	2,719.8
Percent Change 2009/2008	-32.7%	-33.7%	-37.2%	-7.5%	-34.9%

Sample

Of the estimated 2,719.8 million pounds of aluminum castings shipped by U.S. foundries during 2009, about 56.0 percent was die castings, 30.6 percent was permanent mold casting, 13.0 percent was sand castings and four-tenths of one percent was all other types of casting methods. This compares to the 2008 distribution of 54.2 percent used in die castings, 30.1 percent used in permanent mold castings, 13.4 percent used in sand castings and 2.3 percent used in all other types of casting methods.

U.S. FOUNDRY SHIPMENTS OF ALUMINUM CASTINGS BY CASTING METHOD				
(PERCENTAGE)				
Year	Die Casting	Permanent Mold	Sand Casting	All Other
1998	53.7%	33.5%	9.3%	3.5%
1999	54.9%	30.9%	10.3%	3.9%
2000	52.9%	31.9%	9.7%	5.5%
2001	53.9%	28.9%	10.4%	6.8%
2002	52.2%	27.8%	11.5%	8.5%
2003	50.4%	29.4%	12.1%	8.0%
2004	52.9%	31.0%	9.3%	6.8%
2005	48.4%	34.3%	12.6%	4.7%
2006	50.5%	32.7%	14.5%	2.3%
2007	56.7%	27.6%	14.1%	1.6%
2008	54.2%	30.1%	13.4%	2.3%
2009	56.0%	30.6%	13.0%	0.4%

SEE THE SUPPLEMENTAL DATA FILE FOR DETAILS

U.S. FOUNDRY SHIPMENTS OF ALUMINUM CASTINGS BY USE

During 2009, shipments for sale by U.S. foundries totaled an estimated 2,104.1 million pounds, off 34.5 percent from the 2008 total of 3,211.6 million pounds.

U.S. FOUNDRY SHIPMENTS OF ALUMINUM CASTINGS BY METHOD, FOR SALE					
(MILLIONS OF POUNDS)					
<u>FOR SALE</u>	<u>Die Casting</u>	<u>Permanent Mold</u>	<u>Sand Casting</u>	<u>All Other</u>	<u>Total</u>
1998	1,845.1	1,259.6	367.8	103.7	3,576.2
1999	2,090.6	1,253.6	475.5	135.3	3,955.0
2000	2,275.0	1,315.9	483.6	206.2	4,280.7
2001	1,963.7	1,085.3	440.6	205.4	3,695.1
2002	2,177.0	1,213.9	547.9	311.3	4,250.2
2003	2,088.0	1,225.6	567.3	171.8	4,052.7
2004	2,205.5	1,350.0	408.9	65.1	4,029.5
2005	1,939.9	1,555.1	498.6	43.8	4,037.3
2006	1,984.6	1,313.8	454.0	29.6	3,782.0
2007	2,168.7	1,078.7	459.0	14.9	3,721.3
2008	1,821.5	952.5	421.3	16.2	3,211.6
2009	1,278.9	542.6	274.7	7.8	2,104.1
Percent Change					
2009/2008	-29.8%	-43.0%	-34.8%	-51.8%	-34.5%

Shipments of castings for own use totaled an estimated 615.7 million pounds during 2009, down 36.3 percent from the 2008 total of 966.7 million pounds.

U.S. FOUNDRY SHIPMENTS OF ALUMINUM CASTINGS BY METHOD, OWN USE					
(MILLIONS OF POUNDS)					
<u>OWN USE</u>	<u>Die Casting</u>	<u>Permanent Mold</u>	<u>Sand Casting</u>	<u>All Other</u>	<u>Total</u>
1998	796.1	389.8	91.2	67.2	1,344.4
1999	833.5	392.2	72.0	74.2	1,371.9
2000	656.4	449.6	54.5	99.5	1,260.0
2001	647.5	317.2	66.0	122.2	1,152.8
2002	607.5	267.6	65.8	143.3	1,084.2
2003	545.2	310.5	65.4	247.1	1,168.3
2004	574.4	279.5	80.4	293.0	1,227.3
2005	501.2	175.5	138.3	194.0	1,009.1
2006	589.6	349.5	284.8	88.1	1,312.0
2007	613.9	277.3	235.4	62.3	1,188.9
2008	443.1	303.3	139.8	80.5	966.7
2009	244.1	289.6	77.6	4.3	615.7
Percent Change					
2009/2008	-44.9%	-4.5%	-44.5%	-94.6%	-36.3%

Of the estimated 2,719.8 million pounds of aluminum castings shipped by U.S. foundries during 2009, 77.4 percent or 2,104.1 million pounds were shipments for sale and 22.6 percent or 615.7 million pounds were for own use. This compares to the 2008 results of 76.9 percent as shipments for sale and 23.1 percent for own use.

SEE THE SUPPLEMENTAL DATA FILE FOR DETAILS

U.S. FOUNDRY SHIPMENTS OF ALUMINUM CASTINGS BY SOURCE METAL

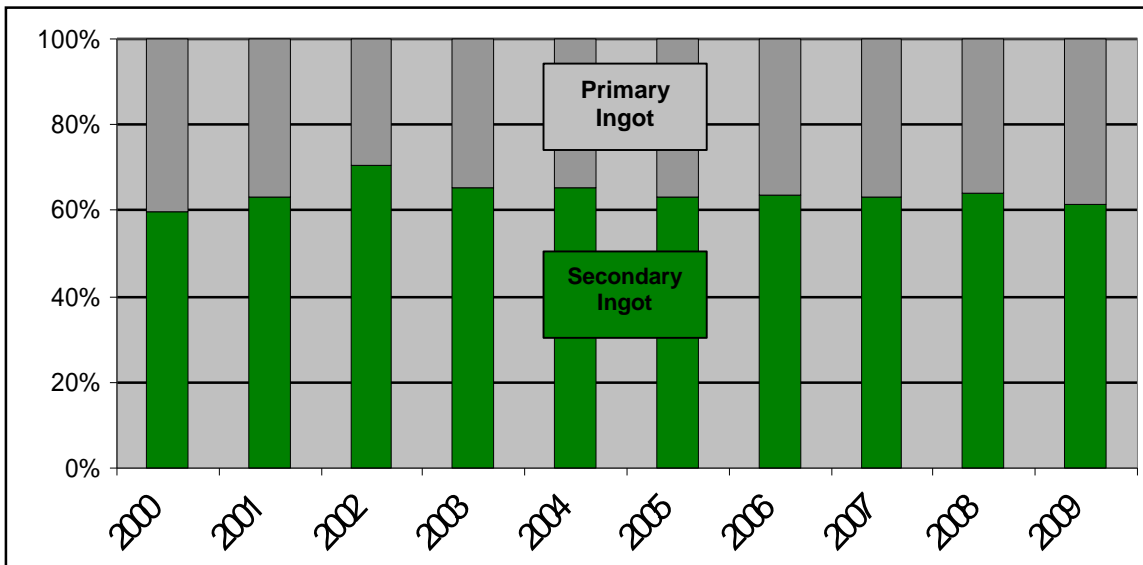
Participating U.S. foundries indicated secondary ingot as 1,788.4 million pounds of their source metal during 2009, or 61.5 percent of total source metal, and primary ingot as 1,120.4 million pounds, or 38.5 percent of total source metal. This compares to the 2008 results of secondary ingot reported as 64.2 percent of source metal and primary ingot as 35.8 percent of source metal. Over the ten-year period of 2000 to 2009, secondary ingot averaged 64.1 percent of source metal and primary ingot averaged 35.9 percent of source metal.

U.S. FOUNDRY SOURCE METAL, SECONDARY AND PRIMARY INGOT, BY YEAR EXPANDED BY THE ASSOCIATION TO ACCOUNT FOR MELT LOSS (MILLIONS OF POUNDS)								
Year	REPORTED			EXPANDED FOR MELT LOSS				
	Secondary Ingot	Primary Ingot	Total	Secondary Ingot	Percent of Metal	Primary Ingot	Percent of Metal	Total
2000	3,301.1	2,239.7	5,540.8	3,530.6	59.6%	2,395.4	40.4%	5,925.9
2001	3,058.4	1,789.4	4,847.8	3,271.1	63.1%	1,913.8	36.9%	5,184.9
2002	3,763.7	1,570.7	5,334.4	4,025.3	70.6%	1,679.9	29.4%	5,705.2
2003	3,405.8	1,815.2	5,220.9	3,642.5	65.2%	1,941.4	34.8%	5,583.9
2004	3,433.0	1,823.8	5,256.8	3,671.7	65.3%	1,950.6	34.7%	5,622.2
2005	3,196.5	1,849.9	5,046.4	3,418.7	63.3%	1,978.5	36.7%	5,397.2
2006	3,234.0	1,860.1	5,094.1	3,458.8	63.5%	1,989.4	36.5%	5,448.2
2007	3,111.2	1,799.0	4,910.2	3,327.5	63.4%	1,924.1	36.6%	5,251.6
2008	2,681.5	1,496.8	4,178.3	2,867.9	64.2%	1,600.9	35.8%	4,468.7
2009	1,672.2	1,047.6	2,719.8	1,788.4	61.5%	1,120.4	38.5%	2,908.8
10 YR AVG				3,300.2	64.1%	1,849.4	35.9%	5,149.7

Note: Data on source metal are not available for years prior to 2000.

Sample

U.S. FOUNDRY SHIPMENTS OF ALUMINUM CASTINGS BY SOURCE METAL
(percentage of total source metal)



SEE THE SUPPLEMENTAL DATA FILE FOR DETAILS

CANADIAN FOUNDRY SHIPMENTS OF ALUMINUM CASTINGS BY INDUSTRY

Based on survey responses from 48 foundries in Canada, foundry shipments to passenger cars & light trucks, including wheels, totaled an estimated 295.6 million pounds during 2009, off 18.7 percent from the 2008 total of 363.8 million pounds. Shipments to truck & bus and shipments to all other transportation markets totaled 5.7 and 6.6 million pounds, respectively, during 2009. Shipments to consumer durables, machinery and equipment, and all other industries totaled 15.9 million pounds.

CANADIAN FOUNDRY SHIPMENTS OF ALUMINUM CASTINGS BY MAJOR MARKET							
(THOUSANDS OF POUNDS)							
Transportation							
<u>Year</u>	<u>Passenger Car & Light Truck, inc. Wheels</u>	<u>Truck and Bus</u>	<u>All Other Trans.</u>	<u>Consumer Durables</u>	<u>Machinery and Equipment</u>	<u>All Other Industries</u>	<u>Total Shipments</u>
2002	423,274	6,890	3,164	7,574	6,013	19,890	466,805
2003	507,126	6,038	3,125	4,227	8,607	18,148	547,271
2004	483,118	7,308	4,433	3,950	4,960	34,573	538,342
2005	526,088	13,733	3,266	7,799	8,197	16,552	575,633
2006	574,987	13,577	6,292	5,131	6,580	15,579	622,145
2007	542,919	8,537	4,875	3,363	4,782	11,508	575,983
2008	363,768	6,486	4,206	2,910	4,453	8,982	390,805
2009	295,613	5,704	6,636	572	3,347	11,938	323,810
Percent Change 2009/2008	-18.7%	-12.1%	57.8%	-80.3%	-24.8%	32.9%	-17.1%

CANADIAN FOUNDRY SHIPMENTS OF ALUMINUM CASTINGS BY CASTING METHOD

Shipments of die casting by Canadian foundries totaled an estimated 197.3 million pounds during 2009, off 3.2 percent from the 2008 total of 203.8 million pounds. Shipments of permanent mold castings totaled 122.3 million pounds, a decrease of 17.0 percent from the 2008 total of 147.3 million pounds. Shipments of sand castings dropped to 3.8 million pounds and shipments of castings by all other casting methods totaled 0.4 million pounds.

CANADIAN FOUNDRY SHIPMENTS OF ALUMINUM CASTINGS BY CASTING METHOD					
(THOUSANDS OF POUNDS)					
<u>Year</u>	<u>Die Casting</u>	<u>Permanent Mold</u>	<u>Sand Casting</u>	<u>All Other</u>	<u>Total</u>
2002	227,779	166,258	71,756	1,012	466,805
2003	293,198	194,424	58,458	1,191	547,271
2004	227,609	235,614	60,066	15,053	538,342
2005	268,538	205,824	89,523	11,748	575,633
2006	285,030	249,313	60,056	27,746	622,145
2007	286,700	214,872	45,655	28,757	575,983
2008	203,790	147,315	39,190	510	390,805
2009	197,302	122,313	3,795	400	323,810
Percent Change 2009/2008	-3.2%	-17.0%	-90.3%	-21.6%	-17.1%

SEE THE SUPPLEMENTAL DATA FILE FOR DETAILS

CANADIAN FOUNDRY SHIPMENTS OF ALUMINUM CASTINGS BY SOURCE METAL

Participating Canadian foundries indicated secondary ingot as 229.3 million pounds of their source metal during 2009, or 66.2 percent of total source metal, and primary ingot as 117.0 million pounds, or 33.8 percent of total source metal. This compares to the 2008 results of secondary ingot reported as 69.3 percent of source metal and primary ingot as 30.7 percent of source metal. Over the eight-year period of 2002 to 2009, secondary ingot averaged 63.4 percent of source metal and primary ingot averaged 36.6 percent of source metal.

CANADIAN FOUNDRY SOURCE METAL, SECONDARY AND PRIMARY ALUMINUM INGOT EXPANDED BY THE ASSOCIATION TO ACCOUNT FOR MELT LOSS (THOUSANDS OF POUNDS)

Year	REPORTED			EXPANDED FOR MELT LOSS				
	Secondary Ingot	Primary Ingot	Total	Secondary Ingot	Percent of Metal	Primary Ingot	Percent of Metal	Total
2002	305,757	161,048	466,805	327,013	65.5%	172,244	34.5%	499,257
2003	422,941	124,330	547,271	452,343	77.3%	132,973	22.7%	585,317
2004	302,257	236,085	538,342	323,270	56.1%	252,497	43.9%	575,767
2005	335,866	239,767	575,633	359,215	58.3%	256,435	41.7%	615,650
2006	356,631	265,515	622,145	381,424	57.3%	283,973	42.7%	665,397
2007	354,481	221,502	575,983	379,124	61.5%	236,901	38.5%	616,025
2008	270,992	119,813	390,805	289,831	69.3%	128,142	30.7%	417,973
2009	214,425	109,385	323,810	229,332	66.2%	116,989	33.8%	346,321

CANADIAN FOUNDRY SHIPMENTS OF ALUMINUM CASTINGS BY SOURCE METAL (percentage of total source metal)

