

2025 AIST North American Blast Furnace Roundup

AIST Roundup data is based on information submitted in the fourth quarter of 2024. Data is supplied by the AIST Ironmaking Technology Committee and is intended for reference information only. No warranty is implied. Please send updates or corrections to Anna Voss at avoss@aist.org.

Company and location	Furnace characteristics							Burden					
	Furnace ID	Hearth diam. (m)	Working volume (m ³)	Charging method	Tuyeres	Tapholes	Fluxed pellets	Acid pellets	Sinter	Lump ore	Reverts with Fe and Fe oxides	Scrap	DBI, HBI, New Fe units
Canada													
Algom Steel Inc. Sault Ste. Marie, Ont.	7	10.67	2,478	Skip	28	2	Yes	Yes	—	—	—	—	—
ArcelorMittal North America ArcelorMittal Dofasco G.P. Hamilton, Ont.	2	7.33	1,062	Belt	15	2	Yes	Yes	—	—	Yes	—	—
	3 ^⓪	6.61	925	Skip	14	1	—	—	—	—	—	—	—
	4	8.53	1,595	Skip	20	2	Yes	Yes	—	—	Yes	—	—
Stelco Inc. Lake Erie Works Nanticoke, Ont.	1	10.29	2,418	Belt	24	2	Yes	Yes	—	—	Yes	Yes	—
Mexico													
Altos Hornos de Mexico ^⓪ Monclova, Coah.	5	11.20	2,210	Belt	28	2	—	—	—	—	—	—	—
	6	8.41	1,392	Belt	22	2	—	—	—	—	—	—	—
ArcelorMittal Mexico Lázaro Cárdenas, Mich.	1	8.99	1,712	Belt	24	2	Yes	Yes	—	Yes	Yes	—	—
United States													
Cleveland-Cliffs Inc. Burns Harbor, Ind.	C	10.73	2,645	Belt	28	2	Yes	Yes	—	—	Yes	Yes	—
	D	10.70	2,645	Belt	28	2	—	Yes	—	—	Yes	Yes	—
Cleveland Works Cleveland, Ohio	5	8.99	1,546	Skip	18	2	—	Yes	—	—	Yes	Yes	Yes
	6	8.99	1,598	Skip	18	1	—	Yes	—	—	Yes	Yes	Yes
Dearborn Works Dearborn, Mich.	C	9.22	1,797	Belt	20	2	Yes	—	—	—	Yes	Yes	Yes
Indiana Harbor East East Chicago, Ind.	IH - 7	13.72	4,037	Belt	40	4	Yes	—	—	Yes	Yes	Yes	Yes
Indiana Harbor West ^⓪ East Chicago, Ind.	IH - 3	8.99	1,586	Skip	20	1	—	—	—	—	—	—	—
	IH - 4	9.98	2,044	Skip	24	2	—	—	—	—	—	—	—
Middletown Works Middletown, Ohio	3	9.17	1,493	Skip	20	2	Yes	Yes	—	—	Yes	Yes	Yes
United States Steel Corporation Gary Works, Gary, Ind.	4	8.79	1,496	Skip	20	1	Yes	Yes	Yes	—	Yes	Yes	—
	6	8.53	1,506	Skip	20	1	Yes	Yes	Yes	—	Yes	Yes	—
	8	7.80	1,299	Skip	16	1	Yes	—	Yes	—	Yes	Yes	—
	14	11.73	3,244	Skip	34	3	Yes	Yes	Yes	—	Yes	—	—
Granite City Works ^⓪ Granite City, Ill.	A	8.31	1,435	Skip	18	1	—	—	—	—	—	—	—
	B	8.31	1,402	Skip	20	1	—	—	—	—	—	—	—
Great Lakes Works ^⓪ Ecorse, Mich.	B	8.78	1,645	Skip	23	1	—	—	—	—	—	—	—
	D	8.53	1,666	Skip	24	1	—	—	—	—	—	—	—
Mon Valley Works Edgar Thomson Plant Braddock, Pa.	1	8.79	1,541	Skip	20	1	Yes	Yes	—	—	Yes	Yes	—
	3	7.70	1,380	Skip	16	1	Yes	Yes	—	—	Yes	Yes	—

^⓪ idle C (injectant type) · coal COG · coke oven gas NG · natural gas tHM · metric ton of hot metal WV · working volume

Burden (cont'd)		Blast conditions						Production				
Injectant 1	Injectant 2	Wind rate (Nm ³ /min)	Enrichment oxygen flow (Nm ³ /min)	Moisture in blast (g/Nm ³)	Oxygen percent in blast (%)	Hot blast temp. (°C)	Top pressure (atm-g)	Actual 2024 hours operated	Actual 2024 hot metal production ('000 metric tons)	Actual 2024 specific production rate (t/m ³ wv*24 hrs)	Hot metal Si (typical) (%)	Hot metal temp (typical) (°C)
NG	—	3,648	264	15.2	27.7	1,042	1.4	7,501	1.9	2.5	0.70	1,515
C	NG	1,642	222	19.0	29.0	1,002	0.8	7,881	0.8	2.4	0.60	1,455
—	—	—	—	—	—	—	—	0	—	—	—	—
C	NG	1,847	268	20.0	31.0	1,130	0.8	7,665	1.3	2.5	0.50	1,460
NG	—	4,594	383	19.6	27.1	1,111	1.0	8,350	2.0	2.4	0.70	1,490
—	—	—	—	—	—	—	—	0	—	—	—	—
—	—	—	—	—	—	—	—	0	—	—	—	—
C	NG	2,470	56	23.9	22.8	1,117	0.9	4,409	0.5	1.5	0.90	1,485
NG	—	3,733	325	6.3	27.3	1,126	0.9	7,202	1.9	2.3	0.60	1,475
NG	—	3,750	327	8.7	27.3	1,186	0.9	7,086	1.8	2.4	0.75	1,470
NG	—	2,508	194	11.4	26.7	1,087	0.5	8,059	1.4	2.6	0.55	1,490
NG	—	2,505	167	11.9	25.9	1,037	0.5	5,873	0.9	2.3	0.60	1,485
NG	—	3,088	219	12.1	26.2	1,043	0.9	7,160	1.2	2.3	0.70	1,465
C	NG	5,872	839	11.6	30.9	1,228	2.0	8,273	3.7	2.7	0.70	1,525
—	—	—	—	—	—	—	—	0	—	—	—	—
—	—	—	—	—	—	—	—	0	—	—	—	—
NG	—	2,797	536	18.4	33.7	1,068	0.6	8,155	1.9	3.8	0.60	1,475
C	NG	2,487	170	11.1	26.0	1,009	0.4	7,401	0.9	2.0	0.80	1,470
C	NG	2,444	206	8.5	27.2	971	0.4	8,084	1.3	2.6	0.60	1,475
C	NG	2,356	172	8.7	26.4	1,023	0.4	8,107	1.1	2.4	0.70	1,470
NG	—	5,092	149	9.9	23.3	1,176	1.5	8,397	2.1	1.9	0.45	1,460
—	—	—	—	—	—	—	—	0	—	—	—	—
—	—	—	—	—	—	—	—	0	—	—	—	—
—	—	—	—	—	—	—	—	0	—	—	—	—
—	—	—	—	—	—	—	—	0	—	—	—	—
NG	—	2,164	210	17.4	28.0	1,123	0.4	7,534	1.2	2.4	0.95	1,465
NG	—	1,931	190	17.9	28.1	1,147	0.4	7,881	1.1	2.4	0.90	1,465

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