

**Primary Iron Production**  
thousand tonnes

worldsteel 93  
26 Jan 21  
% change

<b>Blast Furnace Iron</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020 P</b>	<b>2020/19</b>
Austria	5 815	5 751	6 152	6 029	5 805	5 642	6 335	5 269	5 750	5 240 a	-8.9
Belgium	4 725	4 073	4 343	4 388	4 248	4 869	4 849	4 754	4 690	3 465 e	-26.1
Czechia	4 137	3 935	4 040	4 152	4 031	4 165	3 691	4 005	3 635	3 540	-2.6
Finland (e: 2011-19)	2 500	2 130	2 050	2 475	2 594	2 670	2 604	2 700	2 260 e	2 280 e	0.9
France	9 698	9 532	10 276	10 866	10 097	9 724	10 678	10 530	9 877	7 696	-22.1
Germany	27 563	26 493	26 678	27 379	27 842	27 270	27 816	27 271	25 520	22 459	-12.0
Hungary	1 317	1 229	628	801	1 247	864	1 311	1 355	1 151	968	-15.9
Italy	9 838	9 424	6 933	6 371	5 051	6 044	5 052	4 836	4 606	3 410	-26.0
Netherlands	5 943	5 917	5 681	5 868	6 050	6 092	6 145	6 150	5 936	5 435	-8.4
Poland	3 975	3 952	4 011	4 637	4 821	4 674	5 151	4 853	4 386	3 460 a	-21.1
Romania	1 593	1 467	1 604	1 631	1 983	1 972	1 927	1 979	2 107	1 835	-12.9
Slovakia	3 346	3 520	3 617	3 838	3 738	3 987	4 106	4 100	3 100	2 990 e	-3.5
Spain	3 540	3 081	3 949	3 958	4 450	4 116	4 462	4 521	3 880	2 849	-26.6
Sweden	3 240	2 805	2 896	3 078	2 865	3 079	3 111	2 877	3 172	2 854	-10.0
United Kingdom	6 625	7 183	9 471	9 705	8 774	6 142	5 996	5 588	5 622	5 465	-2.8
<b>European Union (28)</b>	<b>93 855</b>	<b>90 493</b>	<b>92 328</b>	<b>95 176</b>	<b>93 596</b>	<b>91 312</b>	<b>93 235</b>	<b>90 787</b>	<b>85 691</b>	<b>73 946</b>	<b>-13.7</b>
Bosnia-Herzegovina	685	750	759	860	845	778	738	664	745	739	-0.8
Norway	101	100	106	102	59	43	74	79	74	75 e	1.1
Serbia	1 226	312	365	550	904	1 154	1 340	1 593	1 577	1 107	-29.8
Turkey	8 173	8 613	9 180	9 364	10 184	10 304	10 589	10 536	9 869	9 971	1.0
<b>Other Europe</b>	<b>10 184</b>	<b>9 774</b>	<b>10 411</b>	<b>10 876</b>	<b>11 992</b>	<b>12 280</b>	<b>12 741</b>	<b>12 873</b>	<b>12 265</b>	<b>11 892</b>	<b>-3.0</b>
Kazakhstan	3 190	2 831	2 756	3 185	3 235	6 901	3 769	3 141	3 167	3 090 a	-2.4
Russia	48 117	50 529	50 111	51 479	52 356	51 840	52 094	51 760	51 174	51 680 a	1.0
Ukraine	28 867	28 500	29 094	24 788	21 797	23 618	20 147	20 563	20 064	20 423	1.8
<b>C.I.S.</b>	<b>80 174</b>	<b>81 860</b>	<b>81 962</b>	<b>79 452</b>	<b>77 388</b>	<b>82 359</b>	<b>76 010</b>	<b>75 464</b>	<b>74 405</b>	<b>75 193</b>	<b>1.1</b>
Canada	7 323	7 654	6 100	6 728	5 851	6 240	6 306	6 400	6 420	5 585 e	-13.0
Mexico	4 609	4 611	4 911	5 115	4 573	4 476	4 245	4 428	3 845	2 443	-36.5
United States	30 227	32 062	30 308	29 374	25 435	22 293	22 395	24 058	22 301	18 355	-17.7
<b>North America</b>	<b>42 159</b>	<b>44 328</b>	<b>41 319</b>	<b>41 218</b>	<b>35 859</b>	<b>33 008</b>	<b>32 946</b>	<b>34 886</b>	<b>32 567</b>	<b>26 383</b>	<b>-19.0</b>
Argentina	2 801	2 073	2 650	2 766	2 685	2 141	2 171	2 184	1 964	1 930	-1.7
Brazil	33 319	26 900	26 200	27 016	27 985	26 345	28 572	28 655	26 280	24 517	-6.7
Chile	1 072	1 068	766	584	644	677	670	661	595	669	12.5
Colombia	302	345	307	234	240	225	203	205	207	164	-20.6
Paraguay	42	67	69	71	73	50	38	39	41	36	-12.8
<b>South America</b>	<b>37 535</b>	<b>30 454</b>	<b>29 992</b>	<b>30 671</b>	<b>31 627</b>	<b>29 439</b>	<b>31 654</b>	<b>31 744</b>	<b>29 087</b>	<b>27 316</b>	<b>-6.1</b>
Algeria	360	350	300	300	300	300	300	300	300 e	300 e	0.0
Egypt (e)	600	550	550	550	500	500	150	150	170 e	120 e	-29.4
South Africa	4 604	4 599	4 928	4 402	4 464	4 311	4 352	4 611	3 791	2 103	-44.5
<b>Africa</b>	<b>5 564</b>	<b>5 499</b>	<b>5 778</b>	<b>5 252</b>	<b>5 264</b>	<b>5 111</b>	<b>4 802</b>	<b>5 061</b>	<b>4 261</b>	<b>2 523</b>	<b>-40.8</b>
Iran	2 242	2 143	2 007	2 782	2 459	2 251	2 293	2 362	2 530	2 520 e	-0.4
<b>Middle East</b>	<b>2 242</b>	<b>2 143</b>	<b>2 007</b>	<b>2 782</b>	<b>2 459</b>	<b>2 251</b>	<b>2 293</b>	<b>2 362</b>	<b>2 530</b>	<b>2 520</b>	<b>-0.4</b>

**Primary Iron Production**  
thousand tonnes

worldsteel 93  
26 Jan 21  
% change

<b>Blast Furnace Iron</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020 P</b>	<b>2020/19</b>
China (2)	645 429	670 102	711 499	713 748	691 413	702 273	713 619	771 054	851 260	887 524	4.3
India	43 624	47 987	51 359	55 166	58 394	63 714	66 808	72 610	74 156	67 738	-8.7
Japan	81 028	81 405	83 849	83 872	81 011	80 186	78 330	77 328	74 907	61 600	-17.8
D.P.R. Korea (e)	250	250	250	250	250	250	250	250	250 e	250 e	0.0
South Korea	42 213	41 734	41 045	46 909	47 639	46 336	47 071	47 124	47 521	45 631	-4.0
Malaysia									3 872	3 600 e	-7.0
Pakistan	358	198	165	142	163						
Taiwan, China	12 718	11 785	13 319	14 440	14 370	14 890	14 361	14 841	14 510	13 240 e	-8.8
Vietnam	600	650	650	1 393	1 700	2 600	4 250	8 323	9 836	10 000 e	1.7
<b>Asia</b>	<b>826 220</b>	<b>854 111</b>	<b>902 136</b>	<b>915 921</b>	<b>894 939</b>	<b>910 249</b>	<b>924 689</b>	<b>991 531</b>	<b>1 076 312</b>	<b>1 089 584</b>	<b>1.2</b>
Australia	5 265	3 710	3 477	3 282	3 594	3 642	3 758	3 882	3 664	3 723	1.6
New Zealand	659	670	682	680	678	670	683	679	672	613	-8.7
<b>Oceania</b>	<b>5 925</b>	<b>4 381</b>	<b>4 160</b>	<b>3 962</b>	<b>4 272</b>	<b>4 313</b>	<b>4 441</b>	<b>4 561</b>	<b>4 336</b>	<b>4 336</b>	<b>0.0</b>
<b>World</b>	<b>1 103 856</b>	<b>1 123 042</b>	<b>1 170 091</b>	<b>1 185 310</b>	<b>1 157 396</b>	<b>1 170 321</b>	<b>1 182 811</b>	<b>1 249 269</b>	<b>1 321 454</b>	<b>1 313 693</b>	<b>-0.6</b>
<b>Direct Reduced Iron</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020 P</b>	<b>2020/19</b>
Canada	702	842	1 250	1 550	1 502	1 399	1 608	1 670	1 440	1 171	-18.7
Mexico	5 854	5 586	6 100	5 979	5 499	5 306	6 011	5 972	5 974	5 270	-11.8
Trinidad and Tobago	3 030	3 250	3 290	3 240	2 520	1 500	1 590				
Argentina	1 670	1 607	1 466	1 663	1 252	773	1 231	1 606	1 086	525	-51.7
Peru	94	96	93	88	72	11					
Venezuela	4 159	4 472	2 727	1 402	1 356	691	491	442	393	280	-28.7
Egypt	2 932	3 068	3 432	2 882	2 451	2 618	4 667	5 753	4 426	4 828	9.1
Libya	165	508	956	998	449	699	560	612	856	796	-7.0
South Africa	1 414	1 493	1 295	1 612	1 125	702	925	835	661 e	176 e	-73.3
Iran	10 368	11 582	14 458	14 551	14 546	16 013	19 401	25 745	28 522	31 500	10.4
Qatar	2 350	2 420	2 386	2 549	2 631	2 506	2 548	2 526	2 423	763	-68.5
Saudi Arabia (1)	5 810	5 660	6 070	6 460	5 800	5 890	5 740	6 000	5 780	5 192	-10.2
United Arab Emirates	1 800	2 699	3 075	2 409	3 190	3 479	3 608	3 784	3 667	2 961	-19.2
India	25 332	23 438	22 615	24 542	22 644	24 574	29 505	34 213	36 818	33 128	-10.0
<b>Total Above</b>	<b>65 682</b>	<b>66 721</b>	<b>69 212</b>	<b>69 925</b>	<b>65 038</b>	<b>66 160</b>	<b>77 884</b>	<b>89 158</b>	<b>92 046</b>	<b>86 591</b>	<b>-5.9</b>

**Note:**

Annual data can include revisions not shown in monthly data, thus figures may differ from those shown in worldsteel 91/2.

a - estimate based on 11 months

e - annual figure estimated using partial data or non-worldsteel resources

(1) - HADEED only.

(2) -the figure for 2018 is revised from the 771 054 shown in the China Steel Yearbook 2019, and is not necessarily compatible with earlier data.

**World Crude Steel Production**  
thousand tonnes

worldsteel 103  
26 Jan 21  
% change

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020 P	2020/19
Austria	7 474	7 421	7 953	7 876	7 687	7 438	8 135	6 885	7 424	6 665 a	-10.2
Belgium	8 026	7 301	7 127	7 331	7 257	7 687	7 842	7 980	7 760	6 119	-21.1
Bulgaria	835	633	523	612	543	527	652	666	566	485 e	-14.3
Croatia	96	1	135	167	122	0	0	136	69	47 a	-32.0
Czechia	5 583	5 072	5 171	5 360	5 262	5 305	4 550	4 864	4 437	4 465	0.6
Finland	3 989	3 759	3 517	3 807	3 988	4 101	4 003	4 146	3 473	3 500	0.8
France	15 780	15 609	15 685	16 143	14 984	14 413	15 505	15 387	14 450	11 596	-19.8
Germany	44 284	42 661	42 645	42 943	42 676	42 080	43 297	42 435	39 627	35 658	-10.0
Greece	1 934	1 247	1 030	1 022	910	1 158	1 359	1 467	1 350	1 430 a	5.9
Hungary	1 746	1 542	883	1 152	1 675	1 274	1 901	1 989	1 769	1 513	-14.5
Italy	28 735	27 252	24 093	23 714	21 958	23 312	24 007	24 496	23 190	20 200 a	-12.9
Latvia	568	805	198								
Luxembourg	2 521	2 208	2 090	2 193	2 127	2 175	2 172	2 228	2 119	1 886	-11.0
Netherlands	6 937	6 879	6 713	6 964	6 995	6 917	6 781	6 813	6 657	6 054	-9.1
Poland	8 779	8 366	7 950	8 558	9 198	9 001	10 332	10 167	8 956	7 890 a	-11.9
Portugal	1 942	1 960	2 050	2 070	2 030	2 010	2 076	2 215	2 033	2 200 a	8.2
Romania	3 828	3 292	2 985	3 158	3 352	3 276	3 361	3 550	3 448	2 760 a	-20.0
Slovakia	4 236	4 403	4 511	4 705	4 562	4 808	4 974	4 800	3 940 e	3 220 e	-18.3
Slovenia	648	632	618	615	604	613	648	654	623	570 e	-8.5
Spain	15 504	13 639	14 252	14 249	14 845	13 616	14 441	14 320	13 588	10 934	-19.5
Sweden	4 867	4 326	4 404	4 539	4 557	4 817	4 926	4 654	4 721	4 409	-6.6
United Kingdom	9 478	9 579	11 858	12 033	10 907	7 635	7 491	7 268	7 218	7 185	-0.5
<b>European Union (28)</b>	<b>177 791</b>	<b>168 589</b>	<b>166 390</b>	<b>169 215</b>	<b>166 238</b>	<b>162 164</b>	<b>168 455</b>	<b>167 119</b>	<b>157 418</b>	<b>138 786</b>	<b>-11.8</b>
Albania (e)	464	500	550	560	150	50					
Bosnia-Herzegovina	649	700	722	793	819	806	756	695	801	759	-5.2
Macedonia	386	217	100	188	121	169	273	266	239	180	-24.8
Montenegro (e)	140	120	70	140	150	120	120	100	75 e	75 e	0.0
Norway	610	700	605	600	590	620	603	575	621	624	0.5
Serbia	1 324	346	396	583	955	1 173	1 477	1 973	1 929	1 456	-24.6
Switzerland	1 400	1 450	1 530	1 475	1 475	1 500	1 450	1 500	1 500 e	1 500 e	0.0
Turkey	34 107	35 885	34 654	34 035	31 517	33 163	37 524	37 312	33 743	35 763	6.0
<b>Other Europe</b>	<b>39 079</b>	<b>39 917</b>	<b>38 627</b>	<b>38 374</b>	<b>35 778</b>	<b>37 601</b>	<b>42 203</b>	<b>42 421</b>	<b>38 908</b>	<b>40 357</b>	<b>3.7</b>
Azerbaijan (e)	120	120	173	180	180	180	180	200	200 e	200 e	0.0
Belarus	2 614	2 687	2 245	2 513	2 510	2 188	2 343	2 470	2 621	2 490 a	-5.0
Kazakhstan	4 699	3 676	3 275	3 681	3 910	4 289	4 641	3 966	4 134	3 835 a	-7.2
Moldova	313	335	190	351	443	126	469	497	392	465 a	18.7
Russia	68 852	70 209	69 008	71 461	68 695	69 014	70 537	72 201	71 575	73 400 a	2.6
Ukraine	35 332	32 975	32 771	27 170	22 968	24 218	21 417	21 100	20 848	20 616	-1.1
Uzbekistan	733	736	746	723	643	654	654	646	666	950 a	42.6
<b>C.I.S.</b>	<b>112 663</b>	<b>110 739</b>	<b>108 408</b>	<b>106 079</b>	<b>99 349</b>	<b>100 669</b>	<b>100 241</b>	<b>101 081</b>	<b>100 436</b>	<b>101 956</b>	<b>1.5</b>
Canada	12 891	13 507	12 417	12 730	12 473	12 646	13 208	13 443	12 897	11 078 a	-14.1
Cuba	282	277	322	256	284	244	221	225	230	181 a	-21.4
El Salvador	97	72	118	121	124	100	96	99	102	79 a	-22.5
Guatemala	294	334	385	395	403	314	294	300	306	237 a	-22.6
Mexico	18 110	18 073	18 242	18 930	18 218	18 824	19 924	20 204	18 387	16 854 a	-8.3
Trinidad and Tobago	603	628	616	487	591	36					
United States	86 398	88 695	86 878	88 174	78 845	78 475	81 612	86 607	87 761	72 690	-17.2
<b>North America</b>	<b>118 675</b>	<b>121 586</b>	<b>118 978</b>	<b>121 093</b>	<b>110 938</b>	<b>110 638</b>	<b>115 355</b>	<b>120 879</b>	<b>119 683</b>	<b>101 119</b>	<b>-15.5</b>

a - estimate based on 11 months

e - annual figure estimated using partial data or non-worldsteel resources

**World Crude Steel Production**  
thousand tonnes

worldsteel 103

26 Jan 21

% change

	2011	2012	2013	2014	2015	2016	2017	2018	2019 P	2020 P	2020/19
Argentina	5 611	4 995	5 186	5 488	5 028	4 126	4 624	5 162	4 645	3 651	-21.4
Brazil	35 220	34 524	34 163	33 897	33 258	31 642	34 778	35 407	32 569	30 971	-4.9
Chile	1 615	1 671	1 323	1 079	1 112	1 153	1 158	1 145	1 133	1 165 a	2.8
Colombia	1 287	1 302	1 236	1 208	1 211	1 272	1 253	1 219	1 333	1 126 a	-15.5
Ecuador	463	425	570	667	720	576	561	583	607	477 a	-21.5
Paraguay	30	44	45	47	48	35	24	25	26	22 a	-17.5
Peru	877	981	1 069	1 078	1 082	1 168	1 207	1 217	1 230	671 a	-45.4
Uruguay	81	78	91	94	97	61	58	60	62	47 a	-24.6
Venezuela	2 980	2 359	2 139	1 485	1 345	553	444	129	51	29 a	-43.6
<b>South America</b>	<b>48 165</b>	<b>46 379</b>	<b>45 822</b>	<b>45 043</b>	<b>43 900</b>	<b>40 587</b>	<b>44 106</b>	<b>44 947</b>	<b>41 656</b>	<b>38 158</b>	<b>-8.4</b>
Algeria	551	557	417	415	650	650	415	2 300	2 400 e	4 000 e	66.7
Egypt	6 485	6 627	6 754	6 485	5 506	5 036	6 870	7 807	7 257	8 229	13.4
Ghana (e)	25	25	25	25	25	25	25	25	25 e	25 e	0.0
Kenya (e)	20	20	20	20	20	20	20	20	20 e	20 e	0.0
Libya	100	315	712	712	352	492	422	396	606	495	-18.4
Mauritania (e)	5	5	5	5	5	5	5	5	5 e	5 e	0.0
Morocco	654	539	558	501	516	520	550	520	500 e	320 e	-36.0
Nigeria (e)	100	100	100	100	100	100	100	100	100 e	100 e	0.0
South Africa	7 546	6 938	7 162	6 412	6 417	6 141	6 301	6 327	6 152 e	3 877 e	-37.0
Tunisia (e)	150	150	150	150	50	50	50	50	50 e	50 e	0.0
Uganda (e)	30	30	30	30	30	30	30	30	30 e	30 e	0.0
Zaire (e)	30	30	30	30	30	30	30	30	30 e	30 e	0.0
<b>Africa</b>	<b>15 696</b>	<b>15 337</b>	<b>15 963</b>	<b>14 885</b>	<b>13 701</b>	<b>13 099</b>	<b>14 818</b>	<b>17 610</b>	<b>17 175</b>	<b>17 180</b>	<b>0.0</b>
Bahrain (e)								720	700 e	700 e	0.0
Iran	13 197	14 463	15 422	16 331	16 146	17 895	21 236	24 520	25 609 e	29 030 e	13.4
Israel (e)	300	300	300	300	300	300	300	300	300 e	300 e	0.0
Jordan (e)	150	200	200	250	300	330	330	350	350 e	350 e	0.0
Kuwait (e)								1 300	1 270 e	1 300 e	2.4
Oman (e)	200	300	500	1 500	2 000	2 000	2 000	2 000	2 000 e	2 000 e	0.0
Qatar	2 038	2 145	2 236	3 019	2 593	2 521	2 644	2 575	2 558	1 218	-52.4
Saudi Arabia (2)	5 275	5 203	5 471	6 291	5 229	5 461	4 831	8 187	8 191	7 775	-5.1
Syria (e)	70	10	10	5	5	5	5	5	5 e	5 e	0.0
United Arab Emirates	2 000	2 408	2 878	2 390	3 006	3 149	3 309	3 247	3 327	2 722	-18.2
<b>Middle East</b>	<b>23 230</b>	<b>25 029</b>	<b>27 017</b>	<b>30 086</b>	<b>29 579</b>	<b>31 660</b>	<b>34 655</b>	<b>43 204</b>	<b>44 310</b>	<b>45 400</b>	<b>2.5</b>
Bangladesh (e)	1 900	1 900	1 900	2 800	3 500	3 500	3 500	3 800	5 100 e	5 500 e	7.8
China (3)	701 968	731 040	822 000	822 306	803 825	807 609	870 855	928 260	1001 306	1052 999	5.2
India	73 471	77 264	81 299	87 292	89 026	95 477	101 455	109 272	111 351	99 570	-10.6
Indonesia	3 621	2 254	2 644	4 351	4 854	4 746	5 195	6 183	7 783	7 600 e	-2.4
Japan	107 601	107 232	110 595	110 666	105 134	104 775	104 661	104 319	99 284	83 194	-16.2
D.P.R. Korea (e)	1 300	1 280	1 250	1 250	1 250	1 250	1 250	1 250	1 250 e	1 250 e	0.0
South Korea	68 519	69 073	66 061	71 543	69 670	68 576	71 030	72 464	71 412	67 121	-6.0
Malaysia	5 941	5 612	4 693	4 316	3 784	2 764	3 215	4 108	6 820	6 500 e	-4.7
Mongolia (e)	35	35	40	45	45	50	50	50	50 e	50 e	0.0
Myanmar (e)	50	50	70	100	150	200	250	300	350 e	350 e	0.0
Pakistan	1 592	1 631	1 845	2 423	2 892	3 553	4 966	4 719	3 304	3 743	13.3
Philippines	1 200	1 260	1 308	1 196	968	1 075	1 378	1 475	1 915	1 800 e	-6.0
Singapore	752	688	434	540	501	520	596	618	766	750	-2.1
Sri Lanka (e)	30	30	30	30	30	30	30	30	30 e	30 e	0.0
Taiwan, China	20 178	20 664	22 282	23 221	21 392	21 751	22 438	23 240	21 954	20 570 e	-6.3
Thailand	4 256	3 641	3 613	5 835	5 069	5 400	6 762	6 403	4 246	4 420	4.1
Vietnam	4 900	5 298	5 474	5 847	5 647	7 811	11 473	15 471	17 469	19 500 e	11.6
<b>Asia</b>	<b>997 315</b>	<b>1028 952</b>	<b>1125 537</b>	<b>1143 762</b>	<b>1117 739</b>	<b>1129 087</b>	<b>1209 102</b>	<b>1281 962</b>	<b>1 354 391</b>	<b>1 374 947</b>	<b>1.5</b>
Australia	6 404	4 893	4 688	4 607	4 925	5 259	5 328	5 689	5 493	5 490	0.0
New Zealand	844	912	900	859	793	577	657	652	667	586	-12.2
<b>Oceania</b>	<b>7 248</b>	<b>5 805</b>	<b>5 588</b>	<b>5 466</b>	<b>5 717</b>	<b>5 837</b>	<b>5 985</b>	<b>6 341</b>	<b>6 160</b>	<b>6 076</b>	<b>-1.4</b>
<b>World</b>	<b>1539 861</b>	<b>1562 332</b>	<b>1652 329</b>	<b>1674 003</b>	<b>1622 938</b>	<b>1631 341</b>	<b>1 734 921</b>	<b>1 825 565</b>	<b>1 880 137</b>	<b>1 863 980</b>	<b>-0.9</b>

**Note:**  
Annual data can include revisions not shown in monthly data, thus figures may differ from those shown in worldsteel 101/2.

(1) - estimated 2019 data not compatible with 2018 data.

(2) - 2010-17 HADEED only, 2018-19 NSCI only.

(3) - the figure for 2018 is revised from the 928 009 shown in the China Steel Yearbook 2019, and is not necessarily compatible with earlier data.