

Raw Material Extra Charge (RMEC)

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Per informazioni rivolgersi a:

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Attention!

- The meetings price reporting sessions of the C.C.I.A.A. of Milan are suspended *sine die* from **August 4th 2017**.
- Starting from the average of **August 2017** and until the regular resumption of official surveys of CCIAA in Milan, the transitional method that will be used for updating the Assofond indicators is to apply monthly variations of the CAEF index ([download](#)) in € / ton, to the monthly averages (line 7) of the baskets conventionally defined for the different types of metal:
 - Ductile cast iron
 - Grey cast iron
 - Steel castings



Attention!

- **An example:**
- Change CAEF Index August vs July 2017 = +15,24 €/t, obtained from the difference of the CAEF Index in the two months considered;
- The Index variation (+15,24 €/t) represents the inflation applied to July line (7) to obtain the August line (7) values of the baskets conventionally considered in this publication (Ductile cast iron, Grey cast iron, Steel castings).



Table Year 2019 - (for time series see tab. below)

Value in Euro/ton

		Bales deep drawing 30X30	Pig iron for ductile iron	Ductile cast iron	Pig iron hematite	Grey cast iron	Steel castings
		<i>EX Column 2</i>	<i>EX Column 1</i>	<i>EX Column 3</i>	<i>EX Column 4</i>	<i>EX Column 5</i>	<i>EX Column 6</i>
January-19	Line (7)	-	-	409,34	-	409,34	273,59
	Line (8)	-	-		-		
	Line (9)	-	-		-		
February-19	Line (7)	-	-	410,78	-	410,78	275,03
	Line (8)	-	-		-		
	Line (9)	-	-		-		

Information about method

(see notes *supra*)

The “Raw Material Extra Charge” is processed on the base of the data coming from “Chamber of Commerce of Milan – C.C.I.A.A.-“ and the value, expressed in euro/ton, is related to different kind of metallic materials:

- **Grey cast iron:** *the values take into account are pig iron hematite (50%) (chapter 430 item 310 C.C.I.A.A.) and bales of deep drawing steel 30X30 for Foundry (50%) (chapter 430 item 226 C.C.I.A.A.)*
- **Ductile cast iron:** *The values take into account are pig iron for ductile iron (50%) (chapter 430 item 320 C.C.I.A.A.) and bales of deep drawing steel 30X30 for Foundry (50%) (chapter 430 item 226 C.C.I.A.A.)*
- **Steel casting:** *the value takes into account is Steel scrap cat.50 (100%) (chapter 430 item 60 C.C.I.A.A.)*

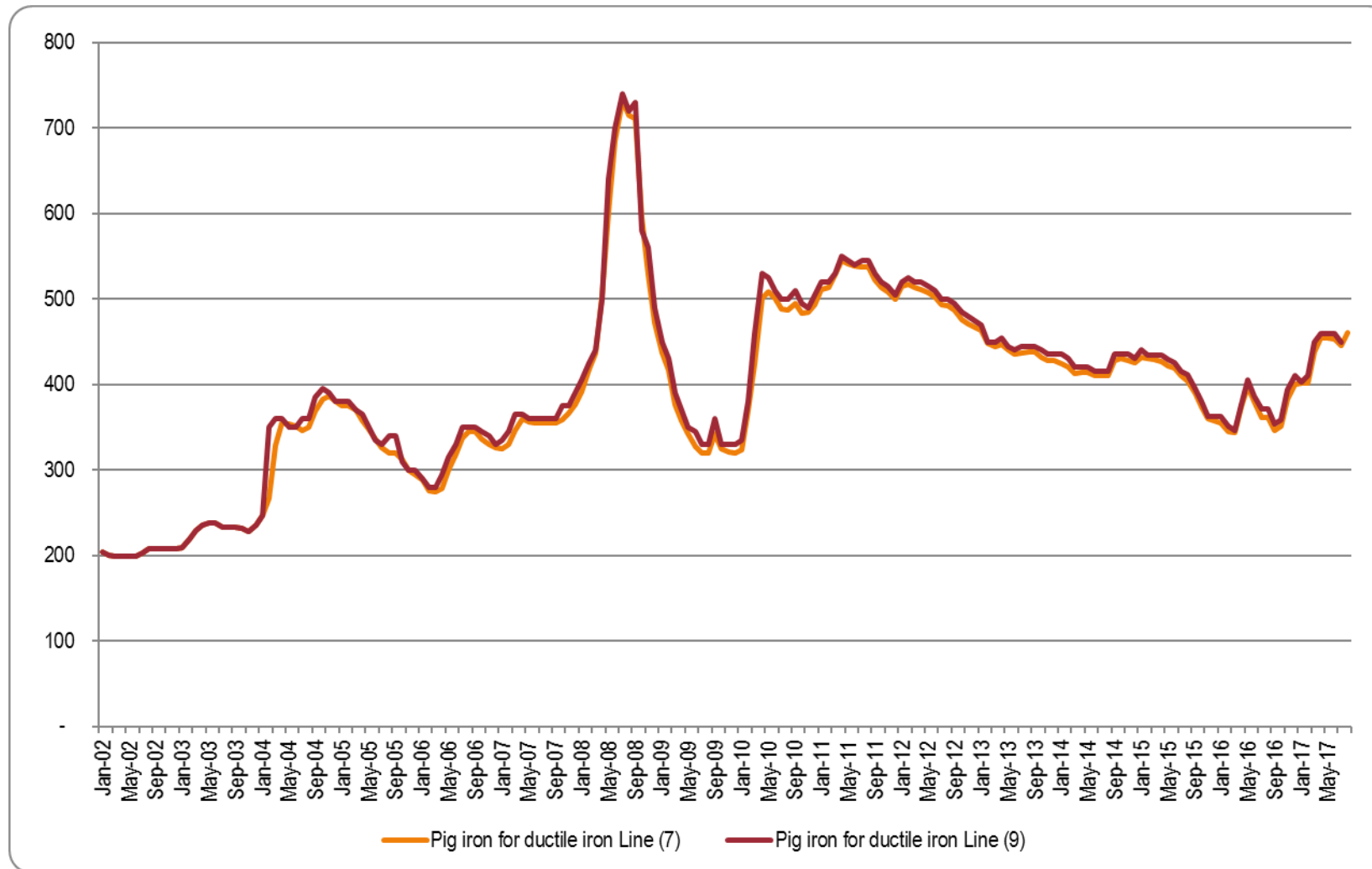
Sources

1. Pig iron for ductile iron, source C.C.I.A.A., Chapter 430, item 320
2. Bales of deep drawing steel 30X30 for Foundry, source C.C.I.A.A., Chapter 430, item 226
3. Ductile cast iron index for extra charge computation: arithmetical mean between pig iron for ductile iron and bales of deep drawing steel 30X30 for Foundry
4. Hematite pig iron, source C.C.I.A.A., Chapter 430, item 310
5. Grey cast iron index for extra charge computation: arithmetical mean between Pig iron hematite and bales of deep drawing steel 30X30 for Foundry
6. Steel castings index for extra charge computation. Steel scrap cat. 50, source C.C.I.A.A., Chapter 430, item 60
7. Monthly mean C.C.I.A.A.: the average quotation is related to prices checked during 15 days before the date of the updating
8. Last quotation measurement C.C.I.A.A., trend with a maximum
9. Assofond market prices are the same as C.C.I.A.A.

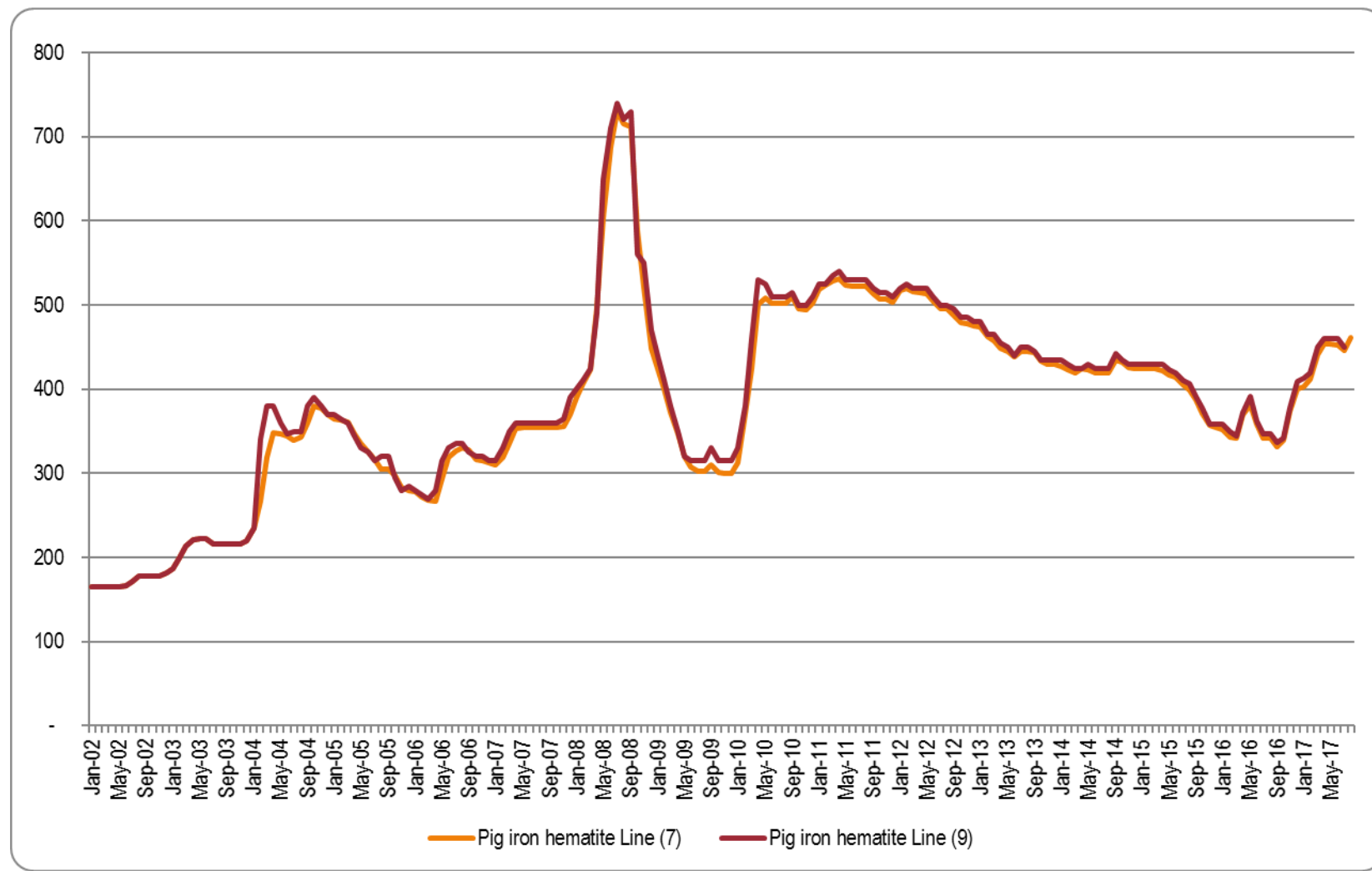


Graphics

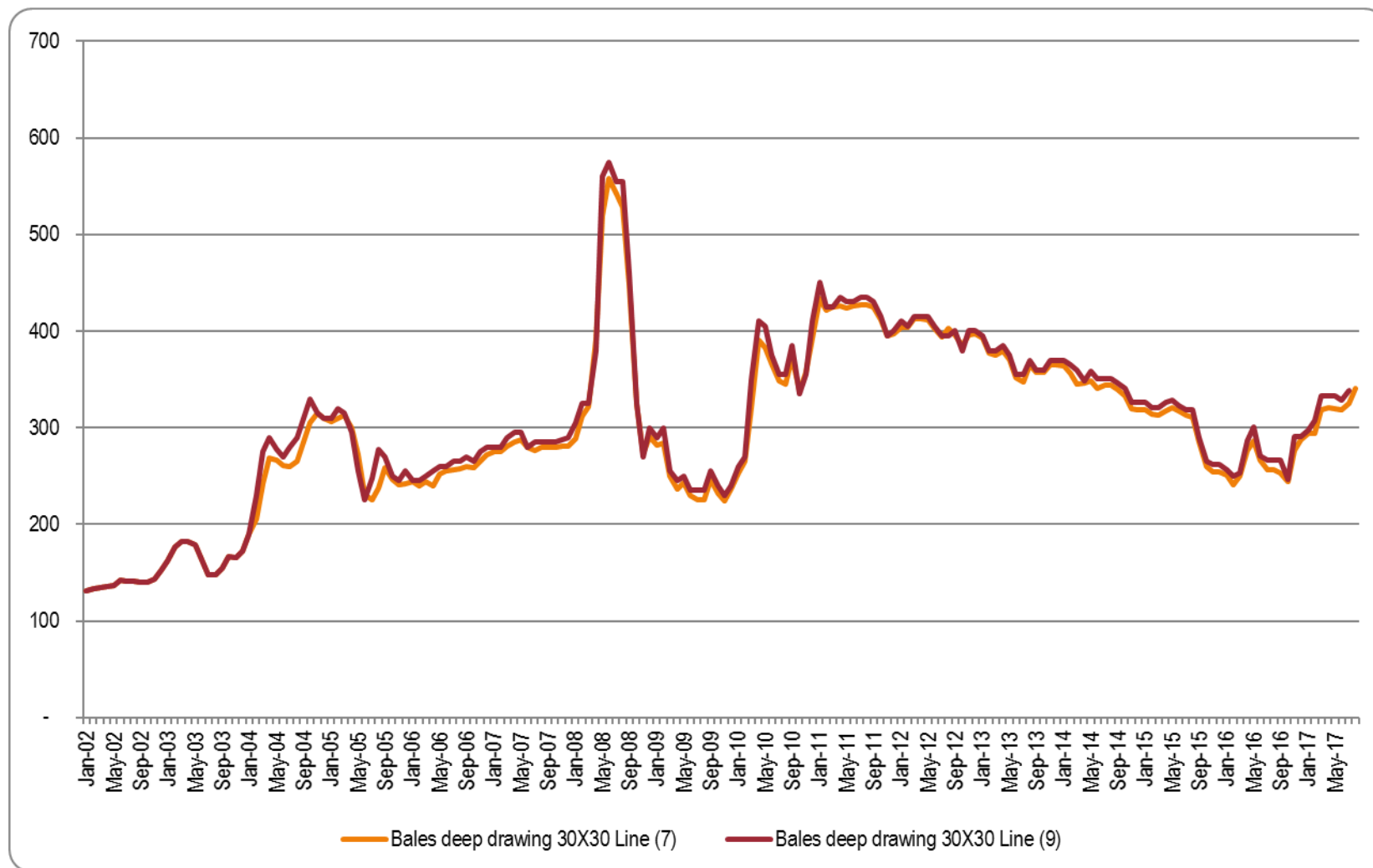
Pig iron for ductile iron



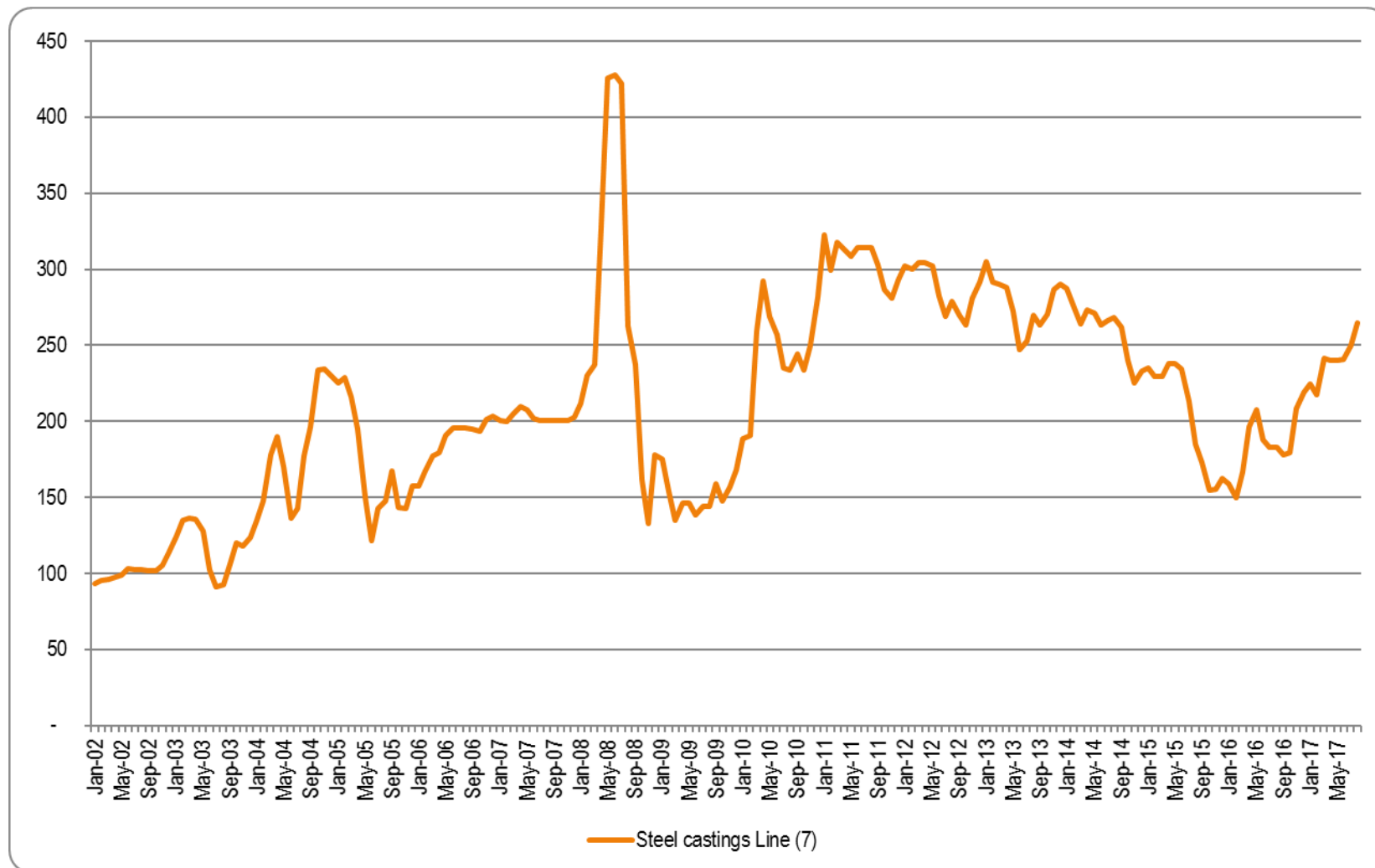
Pig iron hematite



Scrap, Bales deep drawing 30X30



Steel castings





Time series

Line (7) - historical data

	Bales deep drawing 30X30 <i>EX Column 2</i>	Pig iron for ductile iron <i>EX Column 1</i>	Ductile cast iron <i>EX Column 3</i>	Pig iron hematite <i>EX Column 4</i>	Grey cast iron <i>EX Column 5</i>	Steel castings <i>EX Column 6</i>
January-02	131,70	204,00	167,85	164,74	148,22	93,45
February-02	133,75	200,00	166,88	165,25	149,50	95,50
March-02	134,25	199,00	166,63	165,25	149,75	96,00
April-02	135,75	198,94	167,35	165,25	150,50	97,50
May-02	137,00	199,00	168,00	165,25	151,13	98,75
June-02	141,75	199,75	170,75	166,94	154,35	103,50
July-02	140,75	203,00	171,88	171,50	156,13	102,50
August-02	140,75	207,50	174,13	177,50	159,13	102,50
September-02	140,15	207,50	173,83	177,50	158,83	101,90
October-02	139,75	207,50	173,63	177,50	158,63	101,50
November-02	143,25	207,50	175,38	178,25	160,75	105,00
December-02	151,95	207,50	179,73	181,70	166,83	113,70
Average 2002	139,23	203,43	171,33	171,39	155,31	100,98
January-03	162,50	209,38	185,94	186,25	174,38	124,25
February-03	176,75	219,38	198,07	199,50	188,13	135,25
March-03	181,90	228,90	205,40	213,10	197,50	136,50
April-03	182,50	236,00	209,25	221,50	202,00	135,50
May-03	179,00	237,50	208,25	222,50	200,75	128,00
June-03	162,90	237,50	200,20	222,50	192,70	102,50
July-03	147,50	232,50	190,00	215,50	181,50	91,50
August-03	147,50	232,50	190,00	215,50	181,50	92,50
September-03	154,50	232,50	193,50	215,50	185,00	106,10
October-03	166,25	231,25	198,75	215,50	190,88	120,50
November-03	165,25	227,50	196,38	215,50	190,38	118,25
December-03	171,70	235,50	203,60	219,50	195,60	123,50
Average 2003	166,52	230,03	198,28	213,53	190,03	117,86

Line (7) - historical data

	Bales deep drawing 30X30 <i>EX Column 2</i>	Pig iron for ductile iron <i>EX Column 1</i>	Ductile cast iron <i>EX Column 3</i>	Pig iron hematite <i>EX Column 4</i>	Grey cast iron <i>EX Column 5</i>	Steel castings <i>EX Column 6</i>
January-04	189,50	247,30	218,40	235,10	212,30	134,70
February-04	205,00	267,50	236,25	266,25	235,63	148,00
March-04	241,50	328,50	285,00	319,50	280,50	177,90
April-04	268,75	355,00	311,88	348,75	308,75	189,75
May-04	266,50	353,50	310,00	346,50	306,50	170,50
June-04	261,25	351,88	306,57	344,38	302,82	136,25
July-04	260,00	346,25	303,13	338,75	299,38	142,50
August-04	265,00	350,00	307,50	342,50	303,75	177,50
September-04	285,00	368,75	326,88	359,38	322,19	196,25
October-04	305,00	383,13	344,07	379,38	342,19	233,75
November-04	315,50	386,00	350,75	378,00	346,75	234,50
December-04	310,00	380,00	345,00	370,00	340,00	230,50
Average 2004	264,42	343,15	303,78	335,71	300,06	181,01
January-05	306,00	375,00	340,50	365,00	335,50	225,50
February-05	310,00	375,00	342,50	363,75	336,88	228,50
March-05	313,13	370,00	341,57	361,25	337,19	216,25
April-05	300,00	357,50	328,75	346,88	323,44	194,75
May-05	272,50	347,50	310,00	335,50	304,00	150,50
June-05	230,63	335,63	283,13	325,00	277,82	121,25
July-05	225,63	326,25	275,94	316,88	271,26	142,50
August-05	237,50	320,00	278,75	305,00	271,25	147,50
September-05	258,13	320,00	289,07	305,00	281,57	167,50
October-05	247,00	312,00	279,50	297,00	272,00	143,50
November-05	240,63	300,00	270,32	283,13	261,88	142,75
December-05	242,50	295,00	268,75	280,00	261,25	157,50
Average 2005	265,30	336,16	300,73	323,70	294,50	169,83

Line (7) - historical data

	Bales deep drawing 30X30	Pig iron for ductile iron	Ductile cast iron	Pig iron hematite	Grey cast iron	Steel castings
	<i>EX Column 2</i>	<i>EX Column 1</i>	<i>EX Column 3</i>	<i>EX Column 4</i>	<i>EX Column 5</i>	<i>EX Column 6</i>
January-06	244,00	288,00	266,00	278,50	261,25	157,50
February-06	240,00	276,25	258,13	272,50	256,25	167,50
March-06	243,75	275,00	259,38	268,13	255,94	177,50
April-06	240,00	278,13	259,07	267,50	253,75	179,75
May-06	252,00	299,50	275,75	293,00	272,50	190,50
June-06	255,00	318,75	286,88	318,75	286,88	195,50
July-06	257,00	337,00	297,00	327,00	292,00	195,50
August-06	257,50	345,00	301,25	330,00	293,75	195,50
September-06	259,38	345,00	302,19	327,50	293,44	195,00
October-06	259,00	336,00	297,50	316,00	287,50	193,50
November-06	265,00	330,00	297,50	315,00	290,00	201,00
December-06	272,50	326,25	299,38	312,50	292,50	203,50
Average 2006	253,76	312,91	283,33	302,20	277,98	187,69
January-07	275,00	325,00	300,00	310,00	292,50	200,50
February-07	275,00	330,00	302,50	318,75	296,88	199,75
March-07	280,63	346,88	313,76	335,00	307,82	205,00
April-07	285,50	359,50	322,50	353,00	319,25	209,50
May-07	287,50	356,25	321,88	355,00	321,25	207,75
June-07	279,38	355,00	317,19	355,00	317,19	201,75
July-07	276,00	355,00	315,50	355,00	315,50	200,50
August-07	280,00	355,00	317,50	355,00	317,50	200,50
September-07	280,00	355,00	317,50	355,00	317,50	200,50
October-07	280,00	359,00	319,50	355,00	317,50	200,50
November-07	280,38	366,88	323,63	355,63	318,01	200,50
December-07	280,30	376,00	328,15	369,50	324,90	202,50
Average 2007	279,97	353,29	316,63	347,66	313,82	202,44

Line (7) - historical data

	Bales deep drawing 30X30 <i>EX Column 2</i>	Pig iron for ductile iron <i>EX Column 1</i>	Ductile cast iron <i>EX Column 3</i>	Pig iron hematite <i>EX Column 4</i>	Grey cast iron <i>EX Column 5</i>	Steel castings <i>EX Column 6</i>
January-08	288,75	391,88	340,32	390,63	339,69	211,75
February-08	312,41	417,93	365,17	406,81	359,61	230,50
March-08	321,53	436,29	378,91	422,66	372,10	237,60
April-08	391,83	503,00	447,42	497,50	444,67	327,97
May-08	518,87	601,77	560,32	603,23	561,05	425,89
June-08	557,67	684,33	621,00	687,33	622,50	427,83
July-08	542,58	731,77	637,18	731,13	636,86	422,50
August-08	527,50	715,00	621,25	715,00	621,25	262,50
September-08	447,17	711,33	579,25	711,33	579,25	237,50
October-08	323,55	595,48	459,52	588,71	456,13	161,71
November-08	273,33	529,00	401,17	521,33	397,33	132,67
December-08	291,29	471,61	381,45	449,03	370,16	178,35
Average 2008	399,71	565,78	482,74	560,39	480,05	271,40
January-09	282,18	437,10	359,64	424,19	353,19	175,52
February-09	283,93	416,43	350,18	400,71	342,32	154,00
March-09	249,52	376,77	313,15	371,77	310,65	134,97
April-09	236,00	358,00	297,00	346,33	291,17	146,33
May-09	242,66	342,58	292,62	320,16	281,41	146,10
June-09	229,42	326,83	278,13	306,92	268,17	138,50
July-09	225,00	320,00	272,50	302,50	263,75	144,00
August-09	225,00	320,00	272,50	302,50	263,75	144,00
September-09	246,17	342,50	294,34	310,58	278,38	158,67
October-09	232,42	324,68	278,55	301,45	266,94	147,58
November-09	223,83	320,50	272,17	300,00	261,92	156,73
December-09	236,53	320,00	278,27	300,00	268,27	168,48
Average 2009	242,72	350,45	296,59	332,26	287,49	151,24

Table years 2010-2011

Line (7) - historical data

	Bales deep drawing 30X30 <i>EX Column 2</i>	Pig iron for ductile iron <i>EX Column 1</i>	Ductile cast iron <i>EX Column 3</i>	Pig iron hematite <i>EX Column 4</i>	Grey cast iron <i>EX Column 5</i>	Steel castings <i>EX Column 6</i>
January-10	253,23	324,19	288,71	312,42	282,83	188,68
February-10	265,00	370,45	317,73	370,45	317,73	190,43
March-10	320,48	424,44	372,46	424,44	372,46	258,84
April-10	390,83	500,75	445,79	500,75	445,79	292,00
May-10	382,74	508,71	445,73	508,71	445,73	269,00
June-10	366,58	500,83	433,71	502,50	434,54	257,00
July-10	347,90	488,95	418,43	502,50	425,20	235,45
August-10	345,00	487,50	416,25	502,50	423,75	234,00
September-10	372,33	495,00	433,67	509,83	441,08	244,67
October-10	338,47	483,55	411,01	496,13	417,30	234,00
November-10	356,92	484,17	420,55	494,17	425,55	249,67
December-10	392,58	494,03	443,31	501,77	447,18	282,06
Average 2010	344,34	463,55	403,94	468,85	406,59	244,65
January-11	434,03	511,37	472,70	519,11	476,57	322,74
February-11	421,79	513,84	467,82	523,04	472,42	299,36
March-11	425,16	528,87	477,02	528,47	476,81	318,03
April-11	426,00	545,00	485,50	531,17	478,58	312,67
May-11	424,27	540,97	482,62	523,47	473,87	308,52
June-11	426,33	538,33	482,33	522,50	474,42	314,00
July-11	427,50	537,50	482,50	522,50	475,00	314,00
August-11	427,50	537,50	482,50	522,50	475,00	314,00
September-11	424,58	522,25	473,42	512,83	468,71	303,17
October-11	411,45	513,39	462,42	507,50	459,48	286,90
November-11	394,50	508,00	451,25	507,50	451,00	281,00
December-11	397,18	500,32	448,75	502,82	450,00	293,35
Average 2011	420,02	524,78	472,40	518,62	469,32	305,64

Table years 2012-2013

Line (7) - historical data

	Bales deep drawing 30X30	Pig iron for ductile iron	Ductile cast iron	Pig iron hematite	Grey cast iron	Steel castings
	<i>EX Column 2</i>	<i>EX Column 1</i>	<i>EX Column 3</i>	<i>EX Column 4</i>	<i>EX Column 5</i>	<i>EX Column 6</i>
January-12	404,11	514,27	459,19	516,77	460,44	302,23
February-12	404,22	517,50	460,86	520,00	462,11	299,86
March-12	412,50	513,95	463,23	516,45	464,48	304,00
April-12	412,50	510,83	461,67	515,00	463,75	304,00
May-12	411,53	507,50	459,52	514,03	462,78	302,06
June-12	402,50	502,50	452,50	505,00	453,75	282,67
July-12	393,47	493,47	443,47	495,97	444,72	269,00
August-12	402,50	492,50	447,50	495,00	448,75	279,00
September-12	395,67	487,17	441,42	487,75	441,71	269,83
October-12	384,92	476,37	430,65	478,47	431,70	263,52
November-12	396,00	471,33	433,67	477,33	436,67	280,83
December-12	397,50	467,50	432,50	475,00	436,25	291,50
Average 2012	401,45	496,24	448,85	499,73	450,59	287,38
January-13	392,34	462,82	427,58	474,03	433,19	304,84
February-13	377,14	447,86	412,50	462,86	420,00	291,43
March-13	375,00	445,00	410,00	457,10	416,05	290,00
April-13	379,17	447,33	413,25	448,17	413,67	288,17
May-13	371,13	441,13	406,13	445,00	408,06	272,32
June-13	352,00	436,17	394,08	438,83	395,42	247,43
July-13	346,94	437,10	392,02	444,19	395,57	252,74
August-13	365,00	437,50	401,25	445,00	405,00	270,00
September-13	357,00	437,50	397,25	443,33	400,17	263,60
October-13	356,94	432,18	394,56	433,55	395,25	270,39
November-13	365,00	427,50	396,25	430,00	397,50	286,93
December-13	365,00	427,50	396,25	430,00	397,50	290,00
Average 2013	366,89	439,97	403,43	446,00	406,45	277,32

Table years 2014-2015

Line (7) - historical data

	Bales deep drawing 30X30	Pig iron for ductile iron	Ductile cast iron	Pig iron hematite	Grey cast iron	Steel castings
	<i>EX Column 2</i>	<i>EX Column 1</i>	<i>EX Column 3</i>	<i>EX Column 4</i>	<i>EX Column 5</i>	<i>EX Column 6</i>
January-14	363,87	424,11	393,99	426,61	395,24	287,06
February-14	355,98	420,09	388,04	422,86	389,42	274,46
March-14	345,47	413,06	379,27	420,00	382,74	264,13
April-14	346,00	414,67	380,34	424,33	385,17	273,40
May-14	348,69	413,71	381,20	423,71	386,20	271,06
June-14	341,17	410,00	375,59	420,00	380,59	263,40
July-14	343,50	410,00	376,75	420,00	381,75	266,23
August-14	343,50	410,00	376,75	420,00	381,75	268,00
September-14	339,33	427,50	383,42	435,07	387,20	262,10
October-14	332,85	430,00	381,43	431,61	382,23	239,84
November-14	319,67	428,50	374,09	426,17	372,92	225,00
December-14	318,50	425,00	371,75	425,00	371,75	233,39
Average 2014	341,54	418,89	380,22	424,61	383,08	260,67
January-15	318,50	432,10	375,30	425,00	371,75	235,00
February-15	314,57	430,29	372,43	425,00	369,79	229,43
March-15	313,50	429,00	371,25	425,00	369,25	229,55
April-15	317,23	426,33	371,78	422,13	369,68	238,27
May-15	320,50	421,50	371,00	416,50	368,50	238,00
June-15	317,50	419,03	368,27	414,03	365,77	234,13
July-15	313,24	410,79	362,02	405,79	359,52	213,29
August-15	310,50	404,50	357,50	399,50	355,00	185,00
September-15	285,60	390,85	338,23	387,58	336,59	173,10
October-15	259,63	373,90	316,77	370,90	315,27	155,06
November-15	254,50	359,50	307,00	356,50	305,50	155,33
December-15	254,50	357,00	305,75	354,00	304,25	162,61
Average 2015	298,31	404,57	351,44	400,16	349,24	204,06



Line (7) - historical data

	Bales deep drawing 30X30	Pig iron for ductile iron	Ductile cast iron	Pig iron hematite	Grey cast iron	Steel castings
	<i>EX Column 2</i>	<i>EX Column 1</i>	<i>EX Column 3</i>	<i>EX Column 4</i>	<i>EX Column 5</i>	<i>EX Column 6</i>
January-16	250,55	355,55	303,05	352,55	301,55	159,03
February-16	241,00	344,48	292,74	343,14	292,07	149,90
March-16	249,97	344,19	297,08	342,35	296,16	166,42
April-16	276,20	374,00	325,10	369,67	322,94	196,47
May-16	286,68	397,95	342,32	381,84	334,26	207,90
June-16	266,50	380,00	323,25	358,83	312,67	188,13
July-16	257,00	361,50	309,25	342,00	299,50	183,00
August-16	257,00	361,50	309,25	342,00	299,50	183,00
September-16	253,50	346,00	299,75	332,00	292,75	177,87
October-16	243,77	351,60	297,69	339,10	291,44	179,26
November-16	276,17	382,82	329,49	373,17	324,67	208,33
December-16	287,00	400,81	343,90	400,16	343,58	218,74
Average 2016	262,11	366,70	314,41	356,40	309,26	184,84
January-17	293,71	401,71	347,71	403,00	348,36	224,42
February-17	294,00	401,32	347,66	411,32	352,66	217,57
March-17	318,42	437,87	378,15	441,10	379,76	241,48
April-17	321,00	454,00	387,50	454,00	387,50	240,00
May-17	320,03	454,00	387,02	454,00	387,02	240,00
June-17	318,50	452,83	385,67	452,83	385,67	240,70
July-17	325,17	445,67	385,42	445,67	385,42	249,67
August-17	-	-	400,66	-	400,66	264,91
September-17	-	-	413,72	-	413,72	277,97
October-17	-	-	396,26	-	396,26	260,51
November-17	-	-	403,22	-	403,22	267,47
December-17	-	-	416,61	-	416,61	280,86
Average 2017	387,47	388,07	250,46

Rigo (7) - historical data

	Bales deep drawing 30X30 <i>EX Column 2</i>	Pig iron for ductile iron <i>EX Column 1</i>	Ductile cast iron <i>EX Column 3</i>	Pig iron hematite <i>EX Column 4</i>	Grey cast iron <i>EX Column 5</i>	Getti di acciaio <i>EX Colonna 6</i>
January-18			427,89		427,89	292,14
February-18			416,64		416,64	280,89
March-18			430,11		430,11	294,36
aprile-18			428,98		428,98	293,23
May-18			431,48		431,48	295,73
June-18			431,59		431,59	295,84
July-18			430,12		430,12	294,37
August-18			427,79		427,79	292,04
September-18			418,03		418,03	282,28
October-18			416,99		416,99	281,24
November-18			420,13		420,13	284,38
December-18			421,60		421,60	285,85
Average 2018			425,11		425,11	289,36

Melting loss computation in the Extra Charge

In the above table, the melting loss, typical for each foundry productive process is not included.

Here we show as an example, a computation based on the difference between raw materials weight and castings sold.

You suppose for most common casting kinds, a melting loss of about 10%: official reference value even for fiscal purposes.

You have to notice, however, that for many castings families with low ratio (i.e. manifolds, brake parts, steering knuckles etc), melting loss can result more high: even 20%:

Ductile iron casting column 3 May (9) 2004:

- Raw material cost on castings
= $310.00 \times 100 / (100 - 10) = 344,44$
- Yearly average 2003 raw material cost
= $198.28 \times 100 / (100 - 10) = 220,31$
- Difference = $344,44 - 220,31 = 124,13$