



ISA BROWN

PRODUCT GUIDE

ALTERNATIVE HOUSING

Achieving the full genetic potential of the ISA Brown

ISA Brown Features

- **A reliable and economic winner**
- **Proven worldwide**
- **High production and excellent persistency**
- **The efficient brown egg layer**
- **Market leader in egg numbers**

Warranty Disclaimer

This product guide for layers has been prepared by Institut de Sélection Animale B.V. and its affiliates ("ISA") with the greatest possible care and dedication to inform and assist ISA's customers on the various manners of production to improve their production results while using ISA products. However, specific circumstances at the farm of the customer may impact the usability and reliability of the statements and information mentioned in this product guide. No implied or explicit guarantees are given by ISA as to the accuracy and completeness of the provided information in this product guide. Applying the information as stated in this product guide in the customers' production environment remains a decision of the customer, to be taken at its sole discretion. ISA will not be liable for any losses or damages whatsoever, whether in contract, tort or otherwise arising from reliance on information contained in this product guide.

ISA Brown Today

The ISA Brown is recognized globally for its exceptional feed conversion, which makes it one of the most efficient, proven and profitable brown egg layers in the world.

Producing high numbers of first quality eggs, per hen housed, the ISA Brown is a reliable and versatile layer with excellent feed conversion which adapts well to differing climates and housing systems.

Optimal egg size, strong shells and great laying persistency also make the ISA Brown perfectly suitable for longer laying cycles.



ISA Brown Management

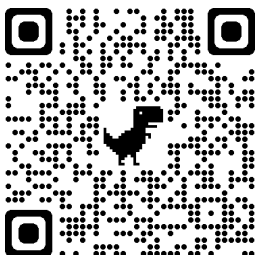
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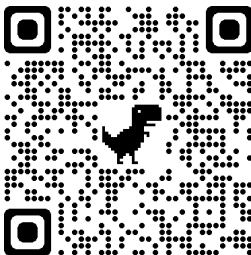


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Production summary

Laying Period	80 wks	90 wks	100 wks
Livability (%)	94	93	92
Age at 50% production	150	150	150
Peak of production (%)	96.0	96.0	96.0
Average egg weight (g)	62.5	62.8	63.0
Eggs HH	364	414	460
Egg mass HH (kg)	22.7	26.0	29.0
Avg feed intake (g/day)	123	122	121
Cum. feed conv. (kg/kg)	2.30	2.33	2.37
Body weight (g)	1940	1955	1975
Shell strength (g/cm ²)	4100	4100	4100
Shell colour (lab)	14.0	14.0	14.0
Haugh units	81	81	81

We crack millions of eggs
to be certain that yours won't



ISA Brown

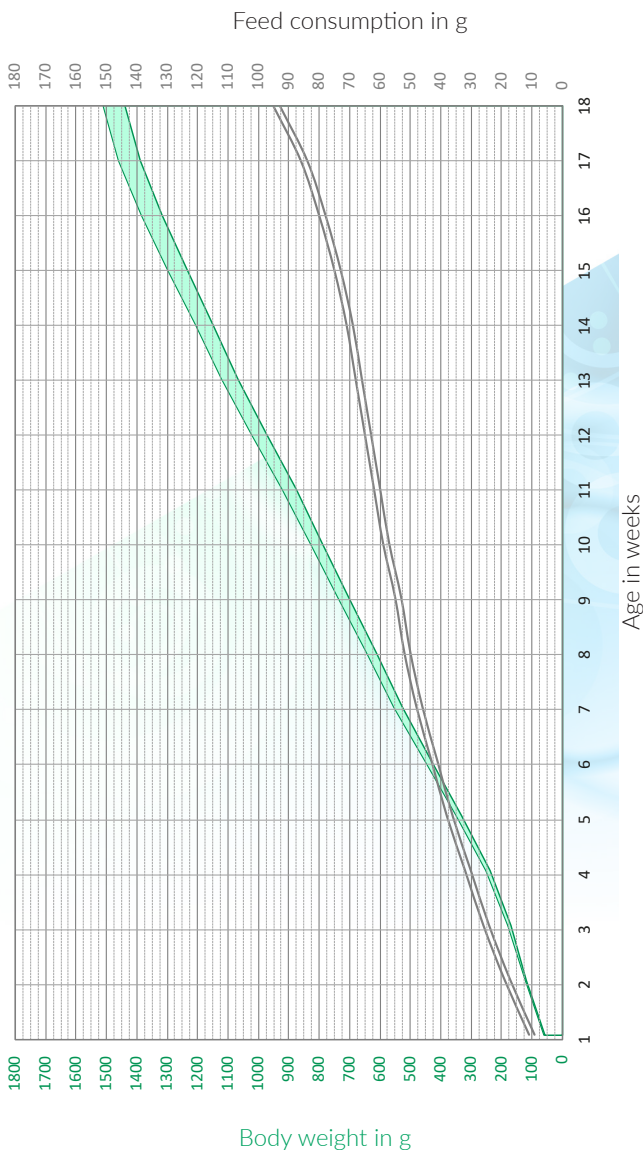
Rearing table

Age in weeks	Age in days	Feed intake per bird per day (g)		Feed intake per bird cum. (g)		Body weight (g)	
		Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
1	0-7	9	11	63	77	59	62
2	8-14	17	19	182	210	117	123
3	15-21	24	26	350	392	171	179
4	22-28	30	32	560	616	239	251
5	29-35	36	38	812	882	332	349
6	36-42	41	43	1,099	1,183	429	451
7	43-49	46	48	1,421	1,519	527	554
8	50-56	50	52	1,771	1,883	614	646
9	57-63	53	55	2,142	2,268	702	738
10	64-70	57	59	2,541	2,681	790	830
11	71-77	60	62	2,961	3,115	878	923
12	78-84	63	65	3,402	3,570	975	1,025
13	85-91	66	68	3,864	4,046	1,068	1,122
14	92-98	69	71	4,347	4,543	1,151	1,210
15	99-105	73	75	4,858	5,068	1,233	1,297
16	106-112	78	80	5,404	5,628	1,316	1,384
17	113-119	84	86	5,992	6,230	1,389	1,461
18	120-126	93	95	6,643	6,895	1,438	1,512

The information supplied in this guide is based on many actual flock results obtained under good environment and managing conditions. It is presented as a service to our customers and should be used as a guide only. It does not constitute a guarantee or warranty of performance in any way.

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Rearing graph



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Production table 1

PER HEN DAY

Age in weeks	% Lay	Egg weight (g)	Egg mass per day (g)	Feed intake per day (g)	Feed conversion per week
18	3.0	42.4	1.3	94	73.84
19	11.0	46.1	5.1	101	19.95
20	31.1	49.2	15.3	105	6.86
21	49.2	51.8	25.5	108	4.24
22	66.8	54.0	36.1	110	3.05
23	82.2	55.8	45.9	112	2.44
24	90.3	57.2	51.7	114	2.20
25	93.0	58.4	54.3	116	2.14
26	94.0	59.4	55.8	118	2.11
27	94.8	60.1	57.0	120	2.11
28	95.4	60.7	57.9	122	2.11
29	95.7	61.1	58.5	123	2.10
30	96.0	61.5	59.0	124	2.10
31	96.0	61.7	59.3	125	2.10
32	96.0	62.0	59.5	125	2.10
33	95.9	62.1	59.6	125	2.10
34	95.8	62.3	59.7	125	2.09
35	95.6	62.5	59.7	125	2.09
36	95.5	62.6	59.8	125	2.09
37	95.2	62.8	59.8	125	2.09
38	95.0	62.9	59.8	125	2.09
39	94.8	63.0	59.7	125	2.09
40	94.6	63.1	59.7	125	2.10
41	94.5	63.1	59.7	125	2.10
42	94.3	63.2	59.6	125	2.10
43	94.0	63.2	59.4	125	2.10
44	93.8	63.2	59.3	125	2.11
45	93.6	63.3	59.2	125	2.11
46	93.3	63.3	59.0	125	2.12
47	93.0	63.3	58.9	125	2.12
48	92.5	63.4	58.6	125	2.13
49	92.2	63.4	58.4	125	2.14
50	91.9	63.4	58.3	125	2.15
51	91.6	63.4	58.1	125	2.15
52	91.3	63.5	58.0	125	2.16
53	91.0	63.5	57.8	125	2.16
54	90.7	63.5	57.6	125	2.17
55	90.4	63.6	57.4	125	2.18
56	90.0	63.6	57.2	125	2.18
57	89.6	63.6	57.0	125	2.19
58	89.2	63.7	56.8	125	2.20
59	88.8	63.7	56.6	125	2.21

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Production table 1

PER HEN HOUSED

Age in weeks	Eggs per bird cum.	Egg mass cum. (kg)	Feed intake cum. (kg)	Feed conversion cum.	% Livability	Body weight (g)
18	0	0.0	0.7	73.84	99.9	1,475
19	1	0.0	1.4	30.79	99.8	1,535
20	3	0.2	2.1	13.87	99.7	1,605
21	7	0.3	2.8	8.66	99.6	1,660
22	11	0.6	3.6	6.23	99.5	1,715
23	17	0.9	4.4	4.89	99.4	1,745
24	23	1.3	5.2	4.12	99.3	1,765
25	30	1.6	6.0	3.66	99.2	1,780
26	36	2.0	6.8	3.37	99.1	1,795
27	43	2.4	7.6	3.16	99.0	1,805
28	49	2.8	8.5	3.01	98.9	1,815
29	56	3.2	9.3	2.90	98.8	1,825
30	63	3.6	10.2	2.81	98.8	1,835
31	69	4.0	11.1	2.74	98.7	1,845
32	76	4.5	11.9	2.68	98.6	1,850
33	83	4.9	12.8	2.63	98.5	1,858
34	89	5.3	13.6	2.59	98.4	1,860
35	96	5.7	14.5	2.55	98.3	1,863
36	102	6.1	15.4	2.52	98.2	1,870
37	109	6.5	16.2	2.49	98.1	1,870
38	115	6.9	17.1	2.47	98.0	1,873
39	122	7.3	17.9	2.45	97.9	1,873
40	128	7.7	18.8	2.43	97.8	1,875
41	135	8.1	19.6	2.41	97.7	1,880
42	141	8.5	20.5	2.40	97.6	1,883
43	148	9.0	21.4	2.38	97.5	1,883
44	154	9.4	22.2	2.37	97.4	1,883
45	160	9.8	23.1	2.36	97.3	1,885
46	167	10.2	23.9	2.35	97.2	1,890
47	173	10.6	24.8	2.34	97.1	1,890
48	179	11.0	25.6	2.34	97.0	1,890
49	186	11.4	26.5	2.33	96.9	1,890
50	192	11.8	27.3	2.32	96.8	1,890
51	198	12.1	28.1	2.32	96.7	1,895
52	204	12.5	29.0	2.31	96.6	1,900
53	210	12.9	29.8	2.31	96.5	1,900
54	216	13.3	30.7	2.30	96.4	1,900
55	223	13.7	31.5	2.30	96.4	1,905
56	229	14.1	32.4	2.30	96.3	1,905
57	235	14.5	33.2	2.29	96.2	1,910
58	241	14.9	34.0	2.29	96.1	1,910
59	247	15.2	34.9	2.29	96.0	1,910

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Production table 2

PER HEN DAY

Age in weeks	% Lay	Egg weight (g)	Egg mass per day (g)	Feed intake per day (g)	Feed conversion per week
60	88.4	63.7	56.3	125	2.22
61	88.0	63.8	56.1	125	2.23
62	87.6	63.8	55.9	125	2.24
63	87.1	63.8	55.6	125	2.25
64	86.7	63.8	55.3	125	2.26
65	86.2	63.9	55.1	125	2.27
66	85.8	63.9	54.8	125	2.28
67	85.3	63.9	54.5	125	2.29
68	84.8	64.0	54.3	125	2.30
69	84.4	64.0	54.0	125	2.32
70	83.9	64.0	53.7	125	2.33
71	83.4	64.1	53.4	125	2.34
72	82.9	64.1	53.1	125	2.35
73	82.4	64.1	52.9	125	2.36
74	81.9	64.2	52.6	125	2.38
75	81.5	64.2	52.3	125	2.39
76	81.0	64.2	52.0	125	2.40
77	80.5	64.2	51.7	125	2.42
78	80.0	64.3	51.4	125	2.43
79	79.5	64.3	51.1	125	2.44
80	79.1	64.3	50.9	125	2.46
81	78.6	64.4	50.6	125	2.47
82	78.1	64.4	50.3	125	2.48
83	77.6	64.4	50.0	125	2.50
84	77.2	64.5	49.7	125	2.51
85	76.7	64.5	49.5	125	2.53
86	76.2	64.5	49.2	125	2.54
87	75.8	64.6	48.9	125	2.56
88	75.3	64.6	48.6	125	2.57
89	74.8	64.6	48.4	125	2.58
90	74.4	64.6	48.1	125	2.60
91	73.9	64.7	47.8	125.0	2.61
92	73.5	64.7	47.5	125.0	2.63
93	73.0	64.7	47.3	125.0	2.65
94	72.5	64.8	47.0	125.0	2.66
95	72.1	64.8	46.7	125.0	2.68
96	71.6	64.8	46.4	125.0	2.69
97	71.2	64.9	46.2	125.0	2.71
98	70.7	64.9	45.9	125.0	2.72
99	70.2	64.9	45.6	125.0	2.74
100	69.8	65.0	45.3	125.0	2.76

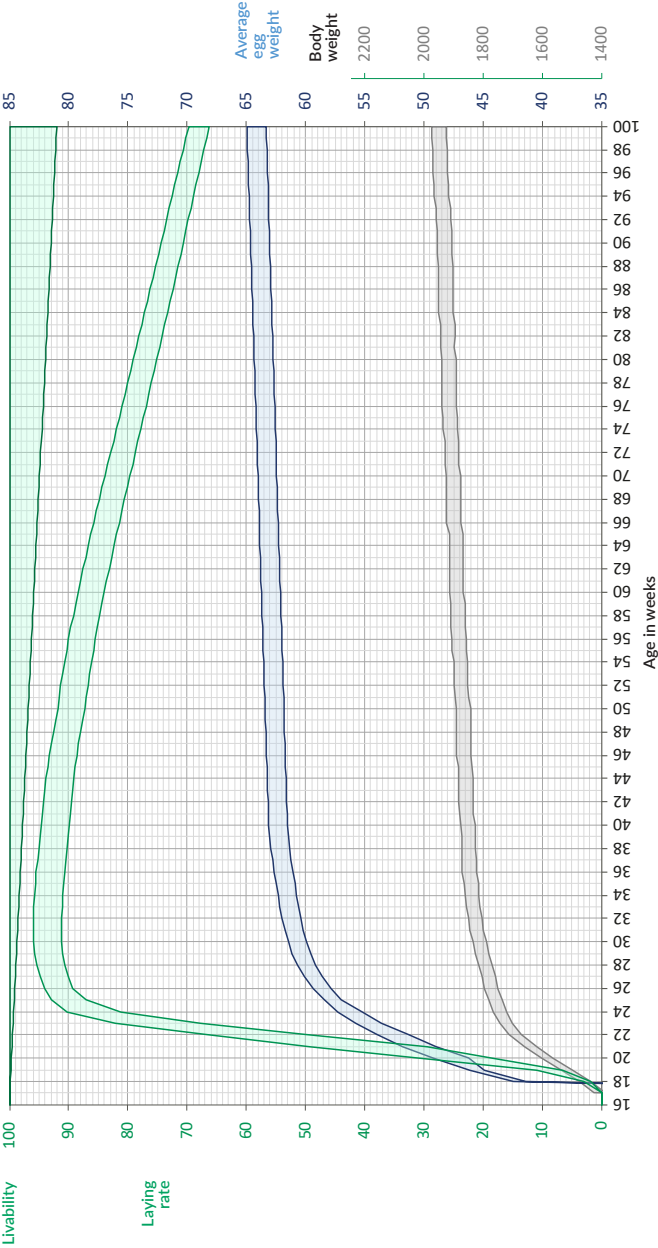
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Production table 2

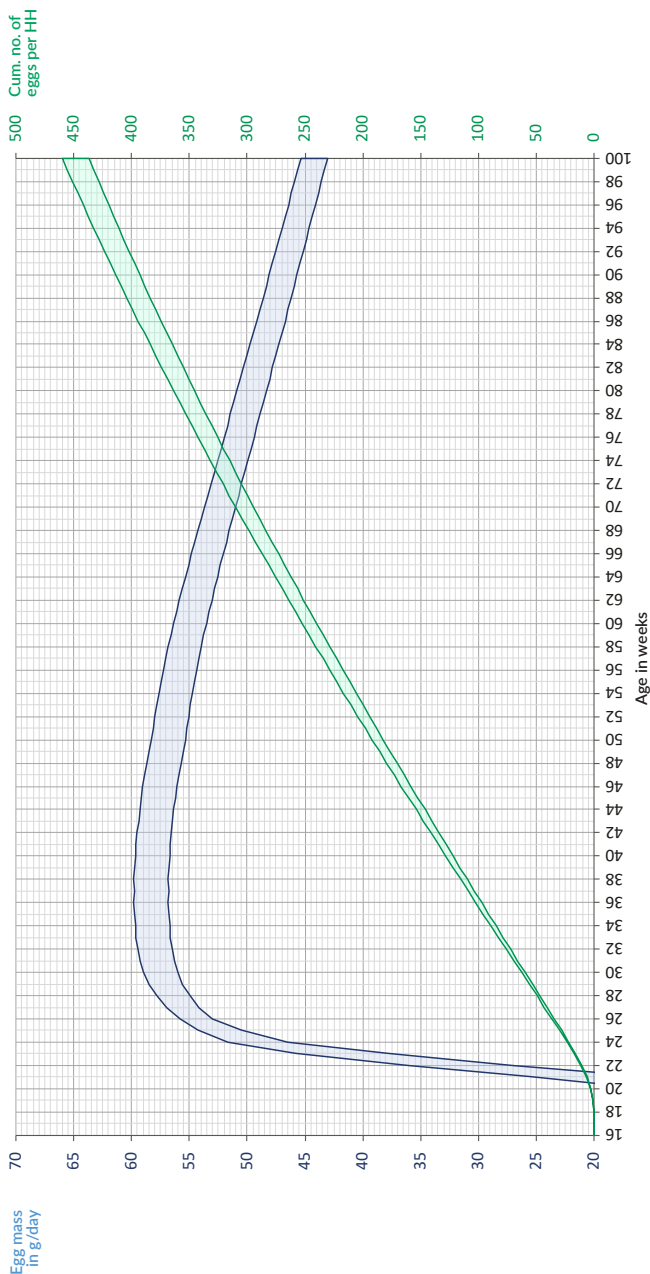
PER HEN HOUSED

Age in weeks	Eggs per bird cum.	Egg mass cum. (kg)	Feed intake cum. (kg)	Feed conversion cum.	% Livability	Body weight (g)
60	253	15.6	35.7	2.29	95.9	1,915
61	258	16.0	36.6	2.29	95.8	1,915
62	264	16.4	37.4	2.29	95.7	1,915
63	270	16.7	38.2	2.28	95.6	1,915
64	276	17.1	39.1	2.28	95.5	1,915
65	282	17.5	39.9	2.28	95.4	1,915
66	287	17.8	40.7	2.28	95.3	1,925
67	293	18.2	41.6	2.28	95.2	1,925
68	299	18.6	42.4	2.28	95.1	1,925
69	304	18.9	43.2	2.28	95.0	1,925
70	310	19.3	44.1	2.29	94.9	1,925
71	315	19.6	44.9	2.29	94.8	1,930
72	321	20.0	45.7	2.29	94.7	1,930
73	326	20.3	46.6	2.29	94.6	1,930
74	332	20.7	47.4	2.29	94.5	1,935
75	337	21.0	48.2	2.29	94.4	1,935
76	343	21.4	49.0	2.29	94.3	1,940
77	348	21.7	49.9	2.30	94.2	1,940
78	353	22.1	50.7	2.30	94.1	1,940
79	358	22.4	51.5	2.30	94.0	1,940
80	364	22.7	52.3	2.30	94.0	1,940
81	369	23.1	53.1	2.30	93.9	1,945
82	374	23.4	54.0	2.31	93.8	1,945
83	379	23.7	54.8	2.31	93.7	1,945
84	384	24.0	55.6	2.31	93.6	1,950
85	389	24.4	56.4	2.32	93.5	1,950
86	394	24.7	57.2	2.32	93.4	1,950
87	399	25.0	58.1	2.32	93.3	1,950
88	404	25.3	58.9	2.32	93.2	1,950
89	409	25.6	59.7	2.33	93.1	1,955
90	414	26.0	60.5	2.33	93.0	1,955
91	418	26.3	61.3	2.33	92.9	1,955
92	423	26.6	62.1	2.34	92.8	1,960
93	428	26.9	62.9	2.34	92.7	1,960
94	433	27.2	63.7	2.35	92.6	1,965
95	437	27.5	64.6	2.35	92.5	1,965
96	442	27.8	65.4	2.35	92.4	1,970
97	447	28.1	66.2	2.36	92.3	1,970
98	451	28.4	67.0	2.36	92.2	1,970
99	456	28.7	67.8	2.36	92.1	1,975
100	460	29.0	68.6	2.37	92.0	1,975

ISA Brown Production graph



ISA Brown Production graph



ISA Brown

Egg grading

Age	Average egg weight	% grading S < 53 g	% grading M 53-63 g	% grading L 63-73 g	% grading XL >73 g
18	42.4	99.9	0.1	0.0	0.0
19	46.1	96.9	3.1	0.0	0.0
20	49.2	83.2	16.8	0.0	0.0
21	51.8	61.2	38.4	0.3	0.0
22	54.0	40.9	57.2	1.9	0.0
23	55.8	26.6	68.1	5.3	0.0
24	57.2	17.7	71.9	10.4	0.0
25	58.4	12.3	71.3	16.2	0.1
26	59.4	9.0	68.8	21.9	0.2
27	60.1	7.0	65.7	26.9	0.4
28	60.7	5.7	62.7	31.0	0.6
29	61.1	4.8	60.2	34.2	0.8
30	61.5	4.3	58.0	36.8	0.9
31	61.7	3.8	56.2	38.8	1.1
32	62.0	3.5	54.8	40.4	1.3
33	62.1	3.3	53.5	41.7	1.5
34	62.3	3.1	52.4	42.9	1.6
35	62.5	2.9	51.3	44.1	1.8
36	62.6	2.7	50.2	45.1	1.9
37	62.8	2.6	49.1	46.2	2.1
38	62.9	2.4	48.0	47.3	2.3
39	63.0	2.4	47.6	47.6	2.4
40	63.1	2.3	46.9	48.3	2.5
41	63.1	2.2	46.7	48.5	2.5
42	63.2	2.2	46.5	48.7	2.6
43	63.2	2.2	46.3	48.9	2.6
44	63.2	2.2	46.0	49.1	2.7
45	63.3	2.1	45.8	49.3	2.7
46	63.3	2.1	45.6	49.5	2.8
47	63.3	2.1	45.4	49.7	2.8
48	63.4	2.1	45.2	49.9	2.8
49	63.4	2.0	45.0	50.1	2.9
50	63.4	2.0	44.7	50.3	2.9
51	63.4	2.0	44.5	50.5	3.0
52	63.5	2.0	44.3	50.7	3.0
53	63.5	1.9	44.1	50.9	3.1
54	63.5	1.9	43.9	51.1	3.1
55	63.6	1.9	43.7	51.3	3.2
56	63.6	1.9	43.5	51.5	3.2
57	63.6	1.8	43.2	51.6	3.3
58	63.7	1.8	43.0	51.8	3.3
59	63.7	1.8	42.8	52.0	3.4

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Egg grading

Age	Average egg weight	% grading S < 53 g	% grading M 53-63 g	% grading L 63-73 g	% grading XL >73 g
60	63.7	1.8	42.6	52.2	3.4
61	63.8	1.7	42.4	52.4	3.5
62	63.8	1.7	42.2	52.6	3.5
63	63.8	1.7	41.9	52.7	3.6
64	63.8	1.7	41.7	52.9	3.7
65	63.9	1.7	41.5	53.1	3.7
66	63.9	1.6	41.3	53.3	3.8
67	63.9	1.6	41.1	53.5	3.8
68	64.0	1.6	40.9	53.6	3.9
69	64.0	1.6	40.7	53.8	3.9
70	64.0	1.6	40.5	54.0	4.0
71	64.1	1.5	40.2	54.2	4.1
72	64.1	1.5	40.0	54.3	4.1
73	64.1	1.5	39.8	54.5	4.2
74	64.2	1.5	39.6	54.7	4.2
75	64.2	1.5	39.4	54.8	4.3
76	64.2	1.5	39.2	55.0	4.4
77	64.2	1.4	39.0	55.2	4.4
78	64.3	1.4	38.8	55.3	4.5
79	64.3	1.4	38.6	55.5	4.6
80	64.3	1.4	38.4	55.6	4.6
81	64.4	1.4	38.1	55.8	4.7
82	64.4	1.3	37.9	56.0	4.8
83	64.4	1.3	37.7	56.1	4.8
84	64.5	1.3	37.5	56.3	4.9
85	64.5	1.3	37.3	56.4	5.0
86	64.5	1.3	37.1	56.6	5.0
87	64.6	1.3	36.9	56.7	5.1
88	64.6	1.2	36.7	56.9	5.2
89	64.6	1.2	36.5	57.0	5.2
90	64.6	1.2	36.3	57.2	5.3
91	64.7	1.2	36.1	57.3	5.4
92	64.7	1.2	35.9	57.5	5.5
93	64.7	1.2	35.7	57.6	5.5
94	64.8	1.2	35.5	57.8	5.6
95	64.8	1.1	35.3	57.9	5.7
96	64.8	1.1	35.1	58.0	5.8
97	64.9	1.1	34.9	58.2	5.8
98	64.9	1.1	34.7	58.3	5.9
99	64.9	1.1	34.5	58.5	6.0
100	65.0	1.1	34.3	58.6	6.1

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