

Cartridge	Pilot Number	Brand of Brass	Standard Program (neck wall thickness)	Neck Turned Programs: Wall Thickness Reduction		
				(-0.001")	(-0.002")	(-0.003")
17 Hornet	43	Hornady	31 (0.0105")			
17 Hornet	43	Sellier & Bellot	37 (0.010")			
17 Hornet AI	43	Remington (ex-22H)	6 (0.010")			
17 Hornet AI	43	PPU (ex-22H)	25 (0.010")			
17 Hornet AI	43	Winchester (ex- 22H)	15 (0.0095")			
17 VHA	78	GEL (Fiocchi)	51 (0.011")			
17 VHA	78	LEJ (ex-4.6 x 30 H&K)	55 (0.011")			
17 Mach IV	2	Remington		44 (0.0115")	41	38
17 Rem. Fireball	2	Remington	49 (0.014")	45	42	39
17 Rem. Fireball	2	Lapua (ex-221)	55 (0.015")			
17 Rem.	18	Remington	29 (0.0115")			
17/223	3	Lapua		59 (0.011")	56	53
17 AccuRat	1	Lapua (ex-220 Russian)		72 (0.011")	68	64
4.6 x 30 H&K	78					
19 Gopher	78	LEJ (ex - 4.6 x 30 HK)	56 (0.011")			
19 Badger	2	Starline (ex-30 Carbine)	51 (0.016")			
19 Carlson	2	Remington (ex-221 Fireball)	40 (0.013")			
19 Carlson PPC5	86	Lapua (ex- 220 Russian)	100 (0.016")	95	90	85
19 Calhoon	43	Remington (ex-22 Hornet)	2 (0.008")			
20 VCC	2	Lake City (ex-Fireball)	54 (0.0135")	50	47	44
20 SCC	2	Nosler (ex-Fireball)	45 (0.013")	41	38	35
20 Vartarg	2	Remington (ex-Fireball)	44 (0.0125")	40	37	34
20 Vartarg	2	Lake City 13 (ex- 223R)	45 (0.012")	41	38	35
20 Vartarg	2	Nosler (ex-Fireball)	45 (0.013")	41	38	35
20 Vartarg	2	Lapua (ex Fireball)	51 (0.0135")	47	44	41
20 Extreme (ex-222R)	4	Lapua		46 (0.0115")	41	37
20 Extreme (ex-222R)	4	Winchester	48 (0.0135")	43	38	33
20 Extreme (ex-222R)	4	Lake City		37 (0.012")	32	28
20 Tactical	3	Lapua (ex-223)	50 (0.014")	46	43	40
20 Tactical	3	Dakota	49 (0.013")	45	42	39
20 Tactical	3	Lake City 11	30 (0.0115")	26	23	20
20 Practical	3	Lapua (ex-223)	49 (0.013")	45	42	39
204 Ruger	19	Hornady (ex-Superformance)	50 (0.0115")	46	43	40
204 Ruger	19	Hornady #4161422, #3152217	26 (0.0115")	23	20	17
204 Ruger	19	Remington	34 (0.013")	30	27	24
204 Ruger	19	Federal	30 (0.013")	26	23	20
204 Ruger	19	Fiocchi	41 (0.011")	37	34	31
204 Ruger	19	Winchester	25 (0.0115")			
204 Ruger	19	Norma	44 (0.0115")	40	37	34
204 Ruger	19	Nosler Lot #JM19B1-131	44 (0.0115")	40	37	34

20 AccuRat	1	Lapua (ex-220 Russian)			51 (0.009")	48
20 BR	10	Lapua (ex-6BR) #P00902303/04260616		68 (0.013")	64	60
20.250 Rem. AI	7	Lapua		70 (0.012")	67	64
20.250 Rem. AI	7	Winchester		45 (0.012")	42	39
5/35 SMc	10	Norma	98 (0.0145")	93	89	85
22 CCM	78	Fiocchi	8 (0.008")			
22 Hornet	43	Sellier & Bellot	20 (0.0085")			
22 Hornet	43	PPU	21 (0.0085")			
22 Hornet	43	Winchester	10 (0.008")			
22 Hornet	43	Remington	6 (0.0075")			
22 Hornet	43	RWS	23 (0.0085")			
22 Hornet	43	Sako	23 (0.0085")			
22 K Hornet	43	WW Super	9 (0.0085")			
22 K Hornet	43	Nosler	18 (0.0085")			
218 Mashburn Bee	2	WW Super	15 (0.009")			
221 Rem. Fireball	2	Remington	36 (0.011")	32	29	26
221 Rem. Fireball	2	Norma	48 (0.012")	44	41	38
221 Rem. Fireball	2	Lapua	48 (0.0125")	44	41	38
222 Rem.	4	Lapua Lot P00449802	55 (0.0125")	51	48	45
222 Rem.	4	Winchester	42 (0.0115")	38	35	32
222 Rem.	4	Remington	37 (0.0115")	33	30	27
222 Rem.	4	Federal	29 (0.011")	25	22	19
222 Rem.	4	Norma	57 (0.012")	53	50	47
222 Rem.	4	Sako	40 (0.0105")	36	33	30
222 Rem.	4	PMC	34 (0.011")	30	27	24
222 Rem.	4	Nosler	54 (0.012")	50	47	44
222 Rem.	4	RWS	58 (0.012")	54	51	48
222 Rem Rimmed	4	Super	44 (0.0115")	40	37	34
222 Rem. Mag.	5	Remington	34 (0.0115")	30	27	24
222 Rem. Mag.	5	Sako	35 (0.0115")	31	28	25
22 PPC	1	IMI (ex-7.62 x 39)	70 (0.0125")	66	63	60
22 PPC	1	Lapua		52 (0.010")	48	44
220 Russian	1	Lapua Lot P00726101/3094513	99 (0.015")	94	89	84
220 Russian	1	Lapua		55 (0.010")	50	45
22 BR (ex-6 BR)	10	Lapua	75 (0.013")	71	68	65
22 BRDX	64	Lapua (ex-6 BR)	61 (0.013")	57	54	51
223 Rem.	3	Remington	32 (0.011")	28	25	22
223 Rem.	3	Nosler	40 (0.012")	36	33	30
223 Rem.	3	Hornady	31 (0.011")	27	24	21
223 Rem.	3	Hornady Ni. plated	37 (0.011")			
223 Rem.	3	Norma Lot 100015346	39 (0.0115")	35	32	29
223 Rem.	3	Norma Lot 100020192, 17011416	43 (0.012")	39	36	33
223 Rem.	3	Norma (TAC -223 ammo) lot#15-037	46 (0.0125")	42	39	36
223 Rem.	3	ADI	39 (0.0125")	35	32	29

223 Rem.	3	Lapua Lot P00696602/1552313, P00967001/0711016	47 (0.013")	43	40	37
223 Rem. AI	3	Lapua	42 (0.014")	38	35	32
223 Rem.	3	Lake City head stamp 01	33 (0.0115)	29	26	23
223 Rem.	3	Lake City head stamps 96, 70, 04, 05, 06, 07, 08, 09, 11, 12, 13, 14, 15, 16, 17	28 (0.0115)	24	21	18
223 Rem.	3	Lake City- Ni plated	34 (.0115")			
223 Rem.	3	PSD	29 (0.011")	25	22	19
223 Rem.	3	PMC	33 (0.011")	29	26	23
223 Rem.	3	Black Hills	29 (0.011")	25	22	19
223 Rem.	3	Winchester	28 (0.011")	24	21	18
223 Rem.	3	Winchester Ni. Plated	29 (0.011")			
223 Rem.	3	Federal	29 (0.011")	25	22	19
223 Rem.	3	Frontier	28 (0.011")	24	21	18
223 Rem.	3	Geco	48 (0.013")	44	41	38
223 Rem.	3	RUAG (Swiss)	44 (0.013")	40	37	34
223 Rem.	3	RUAG lot# 065-06T	46 (0.013")	42	39	36
223 Rem.	3	PPU 08	43 (0.0115")	39	36	33
223 Rem.	3	ATI	46 (0.0115")	42	39	36
223 Rem.	3	AP	37 (0.0115")	33	30	27
223 Rem.	3	Speer	33 (0.0125")	29	26	23
223 Rem.	3	TAA 09	41 (0.0125")	37	34	31
223 Rem.	3	CBC	31 (0.0115")	27	24	21
223 Rem.	3	Hot Shot	32 (0.0115")	28	25	22
223 Rem.	3	Wolf	43 (0.012")	39	36	33
223 Rem.	3	GFI	35 (0.0115")	31	28	25
223 Rem.	3	NPA	53 (0.0135")	49	46	43
223 Rem.	3	Sellier & Bellot	52 (0.012")	48	45	42
223 Rem.	3	IMI 09	33 (0.0115")	29	26	23
223 Rem.	3	IVI	43 (0.012")	39	36	33
223 Rem.	3	WCC 14, 06, 07	26 (0.0115")	23	20	17
223 Rem.	3	Nexus	46 (0.012")	42	39	36
223 Rem.	3	Perfecta	33 (0.0115")	29	26	23
223 Rem.	3	American #303042	32 (0.0135")	28	25	22
223 Rem.	3	TZZ 92	30 (0.012")	26	23	20
223 Rem.	3	Aguila #16	28 (0.012")	24	21	18
223 Rem.	3	Starline	35 (0.0125")	31	28	25
223 Rem.	3	HSM	36 (0.0125")	32	29	26
223 Rem.	3	TW69	29 (0.011")	25	22	19
223 Rem.	3	Squires Bingham (Armscor)	36 (0.013")	32	29	26
223 Rem.	3	Nammo Tactical	45 (0.012")	41	38	35
223 Rem.	3	Sako	35 (0.0105")	31	28	25
5.6x50 Mag	6	RWS	52 (0.0125")	48	45	42
219 Donaldson Wasp	53	Federal (ex-30 American)	44 (0.0125")	40	37	34

225 Winchester	44	Winchester	58 (0.016")			
22 x 47 Lapua	50	Lapua		66 (0.012")	63	60
224 Valkyrie	85	Federal	52 (0.0145")	48	45	42
224 Valkyrie	85	Starline	56 (0.0145")	52	49	46
22 Dasher	52	Lapua (ex- 6 BR)	55 (0.013")	51	48	45
22 Nosler	80					52 (0.013")
224 Weatherby Mag.	7	Norma	60 (0.013")	56	53	50
22-250 Rem.	7	Federal	58 (0.0135")	54	51	48
22-250 Rem.	7	Remington	58 (0.014")	54	51	48
22-250 Rem. AI	7	Remington AI	50 (0.0135")	46	43	40
22-250 Rem.	7	Norma	94 (0.013")	90	87	84
22-250 Rem. AI	7	Norma 100021094	70 (0.0125")	66	63	60
22-250 Rem.	7	Winchester Super	55 (0.013")	51	48	45
22-250 Rem.	7	Win. Ni. plated	55 (0.014")			
22-250 Rem.	7	Frontier	66 (0.015")	62	59	56
22-250 Rem.	7	Lapua	93 (0.014")	89	85	81
22-250 Rem.	7	Lapua Lot P00617801	96 (0.015")	92	88	84
22-250 Rem.	7	Hornady	44 (0.013")	40	37	34
22-250 Rem.	7	Lapua (Ackley Imp.)	95 (0.0145")	91	87	84
22-250 Rem.	7	Nosler	65 (0.0125")	61	58	55
22-250 Rem.	7	PMC	62 (0.013")	58	55	52
22-250 Rem.	7	PPU	75 (0.0135")	71	68	65
22 Creedmoor	17	Hornady (ex- 6mm Creedmoor)	52 (0.0155")	48	45	42
22 Creedmoor	17	Lapua (ex-22.250)	76 (0.015")	72	69	66
220 Swift	8	Remington	54 (0.0145")	50	47	44
220 Swift	8	Winchester		73 (0.016")	69	66
220 Swift	8	Hornady	66 (0.0135")	62	59	56
220 Swift	8	Norma	67 (0.0145")	63	60	57
220 Swift AI	8	Norma	67 (0.0145")	63	60	57
223 WSSM	46	Winchester	160 (0.020")			
22-243W	11	Federal	60 (0.0155")	56	53	50
22-243W	11	Winchester	65 (0.0155")	61	58	55
22-243W	11	Sellier & Bellot	97 (0.0145")	93	90	87
22-243W	11	NNY	100 (0.015")	96	92	88
22-243W	11	Remington	59 (0.0155")	55	52	49
22-6mm Rem. AI	9	Remington	52 (0.015")	48	45	42
22 Cheetah	70	Remington (ex-308 BR)	40 (0.012")	36	33	30
5.7 x 28 FN	78	Federal FNH 07 and 14	49 (0.012")			
6 x 220 Russian	1	Lapua Lot P00726101/3094513		65 (0.011")	61	57
6x47MM (222 Mag based)	5					
6mm x 223 Rem.	3	Lake City 11	24 (0.011")	20	17	14
6mm Hagar	62	Hornady	34 (0.0115")	30	27	24
6mm PPC	1	Sako	55 (0.012")	50	45	40
6mm PPC	1	Lapua (220 Russian) Lot P00726102/2724014	60 (0.012")	56	52	47

6mm PPC	1	Lapua - extended neck turned settings	42 (0.008")			
6mm PPC	1	Lapua Lot# P00726102/3114513, P00726102/3104513	65 (0.012")	61	57	52
6mm PPC	1	Norma	53 (0.011")	49	46	43
6mm Grendel Imp.	16	Lapua Lot#4PH6020/3124506		55 (0.013")	52	49
6mm Fat Rat	16	Hornady (ex-6.5 Grendel) Lot 4160465	38 (0.0135")	34	31	28
6mmAR Turbo 40	16	Lapua (ex-6.5 Grendel) Lot 4PH6020	58 (0.014")	54	51	48
6mm BR	10	Remington	45 (0.012")	40	35	30
6mm BR	10	Lapua Lot P00661101/0210413, P01055002/151717, P00687401/1191813, P01107403/3555117	75 (0.013")	71	68	65
6mm BR	10	Lapua Lot P00726201/3415013, P01107403/0300578	72 (0.013")	68	65	62
6mm BR	10	Norma	91 (0.0135")	87	83	79
6 JDP	10	Lapua (ex-6BR)				58 (0.010")
6mm BR AI	10	Lapua (ex-6BR) Lot P00962501/1462116			56(0.0107")	
6mm BR AI	10	Lapua (ex- 6 BR) Lot P01107403/0290518		65 (0.012)	61	57
6 mm BRX	64	Lapua (ex-6BR)	55 (0.012")	51	48	45
6mm Dasher	52	Lapua	53 (0.013")	47	41	36
6mm Dasher	52	Lapua Lot# P00687403/1682513	60 (0.013")	56	53	50
6mm Dasher	52	Norma (Dasher head stamp)	66 (0.013")	62 (0.012")	59	56
6mm Dasher	52	Norma (New spec) Lot#BL112073	70 (0.0135")	66	63	60
6 - 250	7	Hornady (ex 22-250)	37 (0.012")	33	30	27
6 - 250	7	Remington (")	56 (0.013")	52	49	46
6mm Creedmoor	17	Hornady	52 (0.014")	48	45	42
6mm Creedmoor	17	Hornady Lot#4170631	46 (0.0145")	42	39	36
6mm Creedmoor	17	Lapua (ex-6.5 Creedmoor) small primer #/0190317	67 (0.014")	63	60	57
6mm Creedmoor	17	Peterson (ex-6.5 Creedmoor) Lot WITL0050		74 (0.015")	70	67
6mm Creedmoor	17	Lapua (ex-6.5 Creedmoor(small primer #P01034106/0340517		70 (0.0135")	67	64
6mm Creedmoor	17	Lapua small primer Lot# 80112101/1712518	101 (0.0145")	96	91	86
6mm Creedmoor	17	Lapua small primer Lot# P80112102/1852718	120 (0.0145")	115	110	105
6mm Creedmoor	17	Lapua (ex-308 Palma)	90 (0.015")	86	83	80
6mm Creedmoor	17	Starline (ex-6.5 Creedmoor)	56 (0.014")	52	49	46
6mm Creedmoor	17	Alpha Munitions	70 (0.0155")	66	63	60
6mm Fat Dawg	73	Lapua (ex-6.5x47)	90 (0.012")	85	80	75
GAP 6mm GT	73	Lapua (ex-6.5x47)	93 (0.012")	88	83	78
6mm International	50	Remington (ex- 250 Savage)	70 (0.0135")	66	63	60
6 XC	50	Norma	90 (0.014")	85	81	77
6 XC	50	Peterson SPR	90 (0.0145")	85	81	77
6 Mojo	7	Norma (ex-6 XC)			54 (0.0105")	
6x47 Lapua	50	Lapua (ex-6.5 x 47)	71 (0.013")	65	59	53
6 x 47 Lapua	50	Lapua (ex-6.5 x 47) Lot P00794201/0821315, 4PH6010	76 (0.0135")	72	69	66
6mm Smack	50	Lapua (ex-6.5x47)		66 (0.012")	60	54

6mm Swiss Match	50	RWS	66 (0.013")	60	54	48
243 Win.	11	Remington	55 (0.015")	51	48	45
243 Win.	11	Lapua	93 (0.0145")	89	86	83
243 Win.	11	Lapua Lot P0110320/3124517	99 (0.015")	94	90	86
243 Win.	11	Lapua (Ackley Imp.) #P00887401/1462215		90 (0.014")	87	84
243 Win.	11	Federal	59 (0.015")	55	52	49
243 Win. AI	11	Federal	59 (0.0155")	55	52	49
243 Win.	11	Frontier	55 (0.015")	51	49	46
243 Win.	11	Winchester	67 (0.015")	63	60	57
243 Win.	11	Winchester (Ni.)	67 (0.0145")			
243 Win.	11	Black Hills	60 (0.013")	56	53	50
243 Win.	11	Norma	124 (0.015")	119	114	109
243 Win.	11	Hornady	62 (0.0135")	58	55	52
243 Win.	11	Nosler	60 (0.0145")	56	53	50
243 Win.	11	Sako	94 (0.015")	90	86	83
243 Win.	11	CAC	93 (0.0155")	88	84	80
243 Win.	11	GFL	120 (0.0155")	115	111	107
243 Win.	11	PPU	96 (0.0155")	91	87	83
6 SLR	11	Winchester	57 (0.0145")	53	50	47
6 SLR	11	Nosler (ex - 243W)	64 (0.015")	60	57	54
6 SLR	11	Lapua (ex-243W)	98 (0.015")	93	88	84
6 SLR	11	Lapua (ex 308 Palma)			69 (0.0125")	
6 SLR	11	Hornady	58 (0.013")	54	51	48
6 SLR	11	Remington (ex-BR REM)	48 (0.013")	44	41	38
6mm Competition Match	70	Norma (ex-243W)	118 (0.015")	113	109	105
6mm Competition Match	70	Lapua (ex-243)	89 (0.0155")	85	81	77
6mm Competition Match	70	Alpha Lot 01A170921B	60 (0.015")	56	53	50
6mm Competition Match	70	Peterson (ex-260R) Lot# WITL0041	65 (0.015")	61	58	55
6mm Rem.	9	Frontier	51 (0.013")	47	44	41
6mm Rem.	9	Federal	58 (0.0145")	54	51	48
6mm Rem.	9	Winchester	57 (0.0135")	53	50	47
6mm Rem.	9	Remington	52 (0.014")	48	45	42
6mm Rem.	9	Hornady	52 (0.014")	48	45	42
6mm Rem. AI	9	Remington	44 (0.014")	40	37	34
6 mm AI	9	Norma (ex-7x57)	91 (0.015")	87	84	81
6 mm AI	9	Nosler (ex-257 Rob +P)	69 (0.013")	65	62	59
6mm Shankle	70	Lapua (ex-243W)	94 (0.0145")	90	87	84
6mm Shankle	70	RWS (ex-243W)	122 (0.0145")	117	113	109
6mm Shankle	70	Starline (ex-243W)	65 (0.0145")	61	58	55
6mm Shankle	70	Norma (ex-243W)	124 (0.015")	119	115	111
6mm-284	12	Norma (ex-6.5-284)	97 (0.0155")	93	90	87
243 WSSM	46	Winchester	155 (0.020")			
243 WSSM	46	Federal	157 (0.019")			
6mm-284	12	Winchester (ex-284)				36 (0.009")

6mm-284	12	Lapua (ex-6.5 x 284)	124 (0.0155")	120	116	112
240 Wby Mag	B49	Norma	60 (0.0125")	56	53	50
25-20 WCF	82	Winchester	6 (0.0075")			
256 Win. Mag	1	Hornady (ex-357 Mag)	23 (0.0115")			
25 x 45 Sharps	3	Federal (ex-223R)	25 (0.0115")	21	18	15
25-35 Winchester	62					
250-3000 Savage	7	Remington	53 (0.013")			
250-3000 Savage	7	Winchester	51 (0.0155")			
25 x 47 Lapua	50	Lapua		66 (0.0125")	62	58
257 Roberts	9	Remington	50 (0.014")	46	43	40
257 Roberts +P	9	Winchester	57 (0.015")	53	50	47
257 Roberts +P AI	9	Nosler	72 (0.014")	68	65	62
257 Roberts +P AI	9	WW Super AI	53 (0.0145")	49	46	43
257 Roberts AI	9	Winchester		46 (0.013")	43	40
25-303	34	Sellier& Bellot (ex-303 British)	72 (0.0135")			
25-303	34	PPU (ex-303 British)	60 (0.0135")			
25-303	34	Remington (ex-303 British)	40 (0.013")			
25-303	34	Riverbrand	47 (0.013")			
25-303	34	WW Super	62 (0.0155")			
25 x 284	12	Winchester		51 (0.013")	48	45
25 x 284	12	Lapua (ex-6.5 x 284)	125 (0.0155")	120	115	110
25-06 Rem.	14	Remington	57 (0.013")	53	50	47
25-06 Rem.	14	Hornady	59 (0.014")	55	52	49
25 WSSM	46	Winchester	145 (0.018")			
25-06 Rem.	14	Winchester	50 (0.0135")	46	43	40
25-06 Rem.	14	Winchester Ni-plated			48 (0.012")	45
25-06 Rem AI	14	Nosler	64 (0.0135")	60	57	54
25-06 Rem.	14	Nosler #0879/016910879	75 (0.0135")	71	68	65
25-06 Rem.	14	Norma	75 (0.0135")	71	68	65
257 Wby. Mag	B15	Hornady	56 (0.0135")	52	49	46
257 Wby. Mag	B15	Weatherby	61 (0.013")	57	54	51
257 Wby. Mag	B15	Nosler	61 (0.013")	57	54	51
257 STW	B23	Winchester (ex-7 STW)	49 (0.0135")	45	42	39
257 STW	B23	Nosler (ex-7 STW lot#11472)	98 (0.0165")	94	90	86
6.5 BR	10					
6.5 Rem SPC	53	Hornady (ex-6.8 Rem SPC)	43 (0.013")	39	36	33
6.5 x 50 Japanese	7	PPU	59 (0.013")			
6.5 x 52 Carcano	11					
6.5 Grendel	16	Alex.R	56 (0.013")	51	46	41
6.5 Grendel	16	Hornady	42 (0.013")	38	35	32
6.5 Grendel	16	Lapua	60 (0.014")	55	50	45
6.5 Grendel	16	Norma	62 (0.014")	58	55	52
6.5 x 54 Mannlicher	70	Norma	65 (0.013")	61	58	55
6.5x55 Swedish	9	Norma	95 (0.015")	91	88	85

6.5x55 Swedish	9	Remington	50 (0.014")	46	43	40
6.5x55 Swedish	9	Lapua	91 (0.016")	86	82	79
6.5x55 Swedish	9	NNY	76 (0.0135")	72	69	66
6.5x55 Swedish	9	Winchester	60 (0.0125")	56	53	50
6.5x55 Swedish	9	PMC	58 (0.0125")	54	51	48
6.5x55 Swedish	9	Sellier & Bellot	71 (0.013")	67	64	61
6.5x55 TRI	9	Lapua	91 (0.015")	86	82	79
6.5 Addiction	9	Lapua (ex-6.5 x 55)	89 (0.0155")	84	80	77
6.5 GWI	9	Lapua (ex-6.5x55)	91 (0.0155")	86	82	79
6.5 XC	50	Norma (ex-6XC)			82 (0.0125")	
6.5 x 47 Lapua	50	Lapua Lots: P01000/2453516, P00794202/2253315, P00648802/3074412, P01009801/3094416, P00685004/1281913, P00685004/1552313, P00794201/1412115, P00957301/1231816, P00794203/2383515, P00685001/0741113	71 (0.013)	65	59	53
6.5 x 47 Lapua	50	Lapua Lot#P00957303/1251816, P00794201/0440715, P00794201/2383515, P01000301/2463516, P01009802/3004316, P00957303/0991416, P01000301/2503616, P00957303/1231816, P00716202/2764013, P01098002/3114517	76 (0.013)	70	64	58
260 Rem.	11	Remington	55 (0.015")	51	48	45
260 Rem. AI	11	Remington	42 (0.0135")	38	35	32
260 Rem.	11	Lapua	91 (0.016")	87	84	81
260 Rem.	11	Lapua Lot# P00566701		93 (0.015")	89	85
260 Rem.	11	Lapua Lot# P00776002/1011514, P00661102/1171712, P00972201/1412016, P00661102/1171712	98 (0.015")	93	90	87
260 Rem.	11	Lapua (ex-308 Palma)			62 (0.012")	58
260 Rem.	11	Nosler	94 (0.013")	90	87	84
260 Rem.	11	Norma	94 (0.013")	90	87	84
260 Rem.	11	Peterson Lot# QC010517B		72	68	65
260 Rem.	11	Hornady	49 (0.0135")	45	42	39
260 Rem.	11	IVI 12 (ex - 308W)	75 (0.0145")	71	68	65
260 Rem.	11	Alpha Munitions	76 (0.0145")	72	69	66
260 Rem. AI	11	Lapua	91 (0.0145")	85	80	77
260 Rem. AI	11	Norma Lot# 100015655	96 (0.012")	91	87	83
260 Rem. AI	11	Starline	63 (0.014")	59	56	53
6.5 x 308 Palma Imp.	11	Lapua (ex-308 Palma)	89 (0.013")	84	80	76
6.5 SLR	11	Lapua	92 (0.016")	88	85	82
6.5 Creedmoor	17	Hornady Lot#4140138	53 (0.014")	49	46	43
6.5 Creedmoor	17	Hornady Lot#4140271, #4161349, 4151029	45 (0.013")	41	38	35
6.5 Creedmoor	17	Hornady Lot#4140271	45 (0.014")	41	38	35
6.5 Creedmoor	17	Hornady Lot#3161255	50 (0.0125")	46	43	40
6.5 Creedmoor	17	Nosler Lot 163440064/N5266	42 (0.013")	38	35	32

6.5 Creedmoor	17	Hornady Lot#3172909	50 (0.0135")	46	43	40
6.5 Creedmoor	17	Hornady Lot#4150830	47 (0.0135")	43	40	37
6.5 Creedmoor	17	Nosler	59 (0.014")	55	51	47
6.5 Creedmoor	17	Nosler Lot FN22B2-121, FN22B2-131	68 (0.0145")	64	61	58
6.5 Creedmoor	17	Norma	59 (0.014")	55	51	47
6.5 Creedmoor	17	Norma Lot 20265135	69 (0.014")	65	62	59
6.5 Creedmoor	17	Lapua (Palma) Lot#P01034103/0190317, P01034104/0320517, P1034103/0260417	74 (0.0145")	70	66	62
6.5 Creedmoor	17	Lapua (new head stamp Palma primer Lot#P01068702/1662417, P01034105/0260417, P01068703/1772617, P01068703/1732517, P01068701/1592317, P01068703/1782617 P01034104/0260417, P123456 /3575116, P01034103/0180317	74 (0.0135")	70	66	62
6.5 Creedmoor	17	Lapua (Palma) P01034107/0390617, P01068702/1702517	76 (0.014")	72	69	66
6.5 Creedmoor	17	Lapua - Palma primer Lot# P01034106/0300517	90 (0.0135")	86	82	78
6.5 Creedmoor	17	Lapua - Palma primer Lot# P01068702/1702517, P01034103/0180317	93 (0.0135")	89	85	81
6.5 Creedmoor	17	Lapua (ex- 308W)	90 (0.0145")	86	82	78
6.5 Creedmoor	17	Peterson (Palma primer) Lot# W1TL0062	92 (0.0155")	88	84	80
6.5 Creedmoor	17	Starline Lot# 749017716	62 (0.0135")	58	55	52
6.5 Creedmoor	17	Lapua (ex-308 Palma)	92 (0.015")	88	84	80
6.5 Creedmoor	17	Prime	64 (0.014")	60	57	54
6.5 Creedmoor	17	Prime Lot#2121622	68 (0.0145")	64	61	58
6.5 Creedmoor	17	Federal	43 (0.0135")	39	36	33
6.5 Creedmoor	17	Peterson Lot# W1TL0050, W1DM0040	75 (0.015")	71	68	65
6.5 Creedmoor	17	Winchester	45 (0.014")	41	38	35
6.5 Creedmoor	17	Eagle Eye	72 (0.0155")	68	65	62
6.5 Creedmoor	17	Alpha Lot 01A170425L2	68 (0.0145")	64	61	58
6.5x57R	9	RWS	101 (0.0145")	96	92	88
6.5-284	12	Hornady	60 (0.0145")	56	53	50
6.5-284	12	Nosler	93 (0.015")	88	83	78
6.5-284	12	Norma	98 (0.0155")	94	89	85
6.5-284	12	Lapua Note: this brass is much better neck turned. P00438104, P00740703/3515114	120 - 126 (0.0145" - 0.017" incc	119 (0.014	115	111
6.5 Rem Mag	21	Norma (ex 7 Rem Mag)			87 (0.0115")	
6.5 Rem Mag	21	Remington	89 (0.0155")	85	81	78
6.5 x 65R	75	RWS	120 (0.015")	115	110	105
6.5- 270W	14	Nosler		69 (0.013")	66	63
6.5- 06 Baer	14	Lapua			58 (0.012")	55
6.5 Sherman	75	Norma (ex-280 Rem)	61 (0.015")	57	54	51
6.5 - 06 AI	14	WW Super (ex-25.06)	44 (0.0135")	40	37	34
6.5 - 06 AI	14	Remington (ex-270 W)	58 (0.014")	54	51	48
6.5 Sherman Short Mag.	72	Norma (ex- 7mm SAUM)	121 (0.0155")	116	111	107

6.5 PRC	20	Hornady Lot #4170608	70 (0.015")	66	63	50
6.5 PRC	20	ADG #19017-1-29-3-10	67 (0.015")	63	60	57
6.5 SAUM	20	Norma (ex- 7mm SAUM) Lot 11607		99 (0.0145	95	91
6.5 SAUM	20	Nosler (ex-7mm SAUM) Lot 10184	96 (0.0145")	91	87	83
6.5 SAUM	20	Norma (ex- 300 SAUM)	94 (0.0165")	90	87	84
6.5 SAUM	20	Remington (ex- 300 SAUM)	67 (0.0165")	63	60	57
6.5 SAUM GAP 4S	20	Hornady	65 (0.0145")	61	58	55
6.5 x 270 WSM	51	Norma	123 (0.0155")	119	115	111
6.5 x 270 WSM	51	Remington (ex-270WSM)	72 (0.0165")	68	65	62
6.5 x 270 WSM	51	Nosler GN21B3-131	95 (0.015")	91	87	83
264 Win Mag.	B15	Winchester	64 (0.0155")	60	57	54
6.5 x 300 Wby Mag	B30	Weatherby	70 (0.0135")	66	63	60
26 Nosler	66	Nosler		70 (0.015")	66	62
26 Nosler	66	Norma Lot 120715	121 (0.0155")	116	112	108
6.8 Rem SPC	53	Nosler	47 (0.0125")	44	41	38
6.8 Rem. SPC	53	Hornady	49 (0.013")	45	42	39
6.8 Rem. SPC	53	Remington	34 (0.0105")	30	27	24
6.8 Rem. SPC	53	SSA	47 (0.012")	44	41	38
6.8 Rem. SPC	53	Barrett	40 (0.012")	36	33	30
6.8 Rem. SPC	53	Federal V396036	40 (0.013")	36	33	30
270 Ren.	43	Remington (ex-22 Hornet)	1 (0.007")			
270 Ren.	43	WW Super (ex-22 Hornet)	8 (0.008")			
270 Max	4	Remington (ex- 357 Rem Maximum)	26 (0.0105")			
270 Win.	14	Sako	71 (0.014")	67	64	61
270 Win.	14	Winchester	58 (0.014")	54	51	48
270 Win.	14	Federal	58 (0.014")	54	51	48
270 Win.	14	Hornady	64 (0.014")	60	57	54
270 Win.	14	Remington	67 (0.014")	63	60	57
270 Win.	14	Remington (Ni)	76 (0.013")			
270 Win.	14	Barnes	66 (0.0145")	62	59	56
270 Win.	14	Nosler	67 (0.0135")	63	60	57
270 Win	14	Norma	72 (0.014")	68	65	62
270 WSM	51	Winchester	70 (0.0155")	66	63	60
270 WSM	51	Winchester (Ni. plate)	97 (0.016")			
270 WSM	51	Federal	69 (0.0155")	65	62	59
270 WSM	51	Federal (Ni. plated)	71 (0.016")			
270 WSM	51	Remington	71 (0.016")	67	64	61
270 WSM	51	Norma	119 (0.0155")	114	109	105
270 WSM	51	Hornady #4171076	90 (0.016")	86	82	78
270 Wby Mag	B15	Norma	63 (0.013")	59	56	53
7mm TCU	3	WW Super (ex-223R)	22 (0.0105")			
7 BR	10	Remington	46 (0.0115")	41	37	33
7 BR	10	Lapua (ex-6BR)	70 (0.013")	66	63	60
7mm TCU	3	Remington (ex-223R)	22 (0.010")			

7/30 Waters	62	Remington Ni.	42 (0.012")			
7/30 Waters	62	Federal (Ni. plated)	29 (0.010")			
7-08 Rem.	11	Winchester	55 (0.0145")	51	48	45
7-08 Rem.	11	Winchester (Ni. Plated)	66 (0.015")			
7-08 Rem.	11	Remington	49 (0.013")	45	41	38
7-08 Rem.	11	Federal	53 (0.013")	49	46	43
7-08 Rem.	11	Frontier	59 (0.013")	55	52	49
7-08 Rem.	11	Speer (Ni. Plated)	55 (0.013")			
7-08 Rem.	11	Nosler Lot 10187	93 (0.014")	89	86	83
7-08 Rem.	11	Norma	93 (0.014")	89	86	83
7-08 Rem.	11	Norma Lot 20270225	99 (0.014")	95	91	87
7-08 Rem.	11	Remington	50 (0.0145")	46	43	40
7-08 Rem.	11	Federal	53 (0.0145")	49	46	43
7-08 Rem.	11	Lapua (ex-308W)		63(0.0135\	59	56
7-08 Rem.	11	Lapua Lot P00814402/0831315	99 (0.015")	95	91	87
7-08 Rem.	11	PPU/NNY	60 (0.012")	56	53	50
7-08 Rem.	11	Hornady 3153024	47 (0.012")	43	40	37
7x57 Mauser	9	Remington	72 (0.015")	68	65	62
7x57 Mauser	9	Norma	72 (0.015")	68	65	62
7x57 Mauser	9	Frontier	50 (0.014")	46	43	40
7x65 R	75	RWS	61 (0.0115")	57	54	51
284 Win. (inc. Shehane)	12	Winchester	57 (0.015")	53	50	47
284 Win. (inc. Shehane)	12	Norma	74 (0.015")	69	64	59
284 Win. (inc. Shehane)	12	Lapua (ex 6.5 x 284)	101 (0.015")	97	92	88
284 Walker	12	Lapua (ex-6.5x284)	101 (0.015")	97	92	88
280 Rem.	14	Remington	63 (0.0135")	59	56	53
280 Rem. AI	14	Remington AI	55 (0.0135")	51	48	45
280 Rem.	14	Federal	56 (0.0135")	52	49	46
280 Rem.	14	Hornady 4161167	62 (0.013")	58	55	52
280 Rem. AI	14	RWS AI		66 (0.0125")	63	60
280 Rem. AI	14	Nosler AI	71 (0.013")	67	64	61
280 Rem. AI	14	Nosler AI Lot JK10B1141	67 (0.0135")	63	60	57
280 Rem. AI	14	Winchester (AI) ex-270	59 (0.013")	55	52	49
280 Rem. AI	14	Norma (AI) ex-280	72 (0.0145")	68	65	62
280 Rem. AI	14	PPU (AI) ex-270	58 (0.012")	54	51	48
7x64 Brenneke	B15	Norma	64 (0.0135")			
7mm Sherman Short Mag	72	Norma (ex-7 SAUM)	101 (0.015")	95	90	85
7BBM	69	Norma (ex-270 WSM)		125 (0.0145")	121	117
7x61 S&H	B58					
7mm Rem. SAUM	20	Remington	70 (0.0165")	66	63	60
7mm Rem. SAUM	20	Norma (ex-300 SAUM)	97 (0.0155")	93	90	87
7mm Rem. SAUM	20	Nosler	99 (0.016")	95	92	89
7mm Rem. SAUM	20	Norma			94 (0.014")	91
7mm Rem. SAUM	20	Norma Lot 101407	119 (0.0165")	114	110	106

7mm Rem Mag.	B15	Winchester	63 (0.015")	59	56	53
7mm Rem Mag.	B15	PPU	58 (0.014")	54	51	48
7mm Rem Mag.	B15	Hornady	54 (0.0145")	50	47	44
7mm Rem Mag.	B15	Federal	53 (0.0135")	49	46	43
7mm Rem Mag.	B15	Remington	54 (0.014")	50	47	44
7mm Rem Mag.	B15	Nosler	90 (0.015")	86	82	78
7mm Rem Mag.	B15	Norma	91 (0.0145")	87 (0.0135")	84	81
7mm Rem Mag.	B15	PMC	55 (0.0135")	51	48	45
7mm Rem Mag.	B15	Jagemann	98 (0.015")	93	89	85
7mm Rem Mag.	B15	RWS	122 (0.0125")	117	113	109
7-270 WSM	51	Norma	100 (0.0145")	93	89	85
7-300 WSM	21	Norma			91 (0.0145")	87
7-300 WSM	21	Winchester (ex-270 WSM)				47 (0.0105")
7mm WSM	21	Winchester	63 (0.0155")	59	56	53
7mm WSM	21	Federal	62 (0.015")	58	55	52
7mm Wby Mag.	B15	Norma	52 (0.013")	48	45	42
7mm Wby Mag.	B15	Remington	64 (0.0135")	60	57	54
7-300 Win. Mag.	B29	Norma	63 (0.0145")	59	56	53
7mm LRM	22	Gunwerks	75 (0.015")	71	68	65
7mm Practical	B29	Winchester (ex-300 Win Mag)	57 (0.014")	53	50	47
7mm Practical	B29	Nosler (")	60 (0.0135")	56	53	50
7mm Practical	B29	Remington(")	47 (0.014")	43	40	37
7mm Practical	B29	Federal (")	59 (0.015")	55	52	49
7mm Dakota	22	Dakota	119 (0.0135")	114	110	106
7 x 300 Blaser Mag (7mm Stumpy)	22	Norma (ex-300 Blaser Mag)	93 (0.014")	89	86	83
7x66 Vom Hofe	31	Gehmann	71 (0.015")	67	64	61
7mm-375 Ruger	38	Hornady (ex-375 Ruger)		49 (0.014")	46	43
7mm-300 Norma Mag.	67	Norma	126 (0.0165")	122	118	114
7mm-300 Norma Mag AI	67	Norma			94 (0.012")	90
7mm Blaser Mag.	65	Norma	91 (0.014")	87	84	81
7mm STW	B23	Remington (ex 8mm R Mag)	61 (0.015")	57	54	51
7mm STW	B23	Nosler	92 (0.015")	88	84	81
7mm Rem Ultra Mag.	24	Norma		94 (0.0155")	90	86
7mm Rem Ultra Mag.	24	Nosler		94 (0.0155")	90	86
7mm Rem Ultra Mag.	24	Remington		68 (0.015")	64	61
28 Nosler	66	Nosler Lot ON19B1-141	121 (0.0165")	116	112	108
7.5 x 55	57	PPU / NNY	61 (0.013")			
7.5 x 55	57	Norma	68 (0.013")	64	61	58
30 M1 Carbine	2	Remington	30 (0.011")			
30 M1 Carbine	2	PPU	35 (0.0115")			
30 M1 Carbine	2	Arm Scor	43 (0.012")			
30 M1 Carbine	2	Starline	37 (0.012")			
30 M1 Carbine	2	Aguiila	34 (0.0115")			
30 M1 Carbine	2	Federal	34 (0.012")			

30 M1 Carbine	2	Sellier& Bellot	34 (0.012")		
30 M1 Carbine	2	Lake City 68	41 (0.012")		
30 M1 Carbine	2	Lake City 71, 72, 73	37 (0.012")		
30 M1 Carbine	2	A-Merc	29 (0.011")		
30 TNT Supermag	4	Remington (ex-.357 Max)	16 (0.0115")		
300 Blackout	2	PNW	38 (0.012")		
300 Blackout	2	Hornady	34 (0.012")		
300 Blackout	2	Remington	32 (0.0115")		
300 Blackout	2	Gemtech	36 (0.012")		
300 Blackout	2	Lake City 09 (ex 5.56)	39 (0.012")		
300 Blackout	2	ACC-83	41 (0.0125")		
300 Blackout	2	Lapua Lot P0080105002/1402115	44 (0.011")		
300 Blackout	2	Lapua Lot#80105001/1462116	41 (0.011")		
300 Blackout	2	Federal	20 (0.010")		
300 Blackout	2	ADI	33 (0.011")		
300 Blackout	2	SIG	20 (0.011")		
300 Blackout	2	SCO	32 (0.0115")		
300 Blackout	2	Prograde	30 (0.011")		
300 Blackout	2	Norma Lot 20275065	37 (0.0105")		
300 Blackout	2	Nosler	31 (0.011")		
300 Blackout	2	Lake City (ex-223) 03, 04, 07, 09, 10, 15, 16	34 (0.011")		
300 Blackout	2	Barnes ex-223	34 (0.0115")		
300 Blackout	2	PMC ex-223	40 (0.012")		
300 Blackout	2	WCC ex-223	27 (0.011")		
300 Blackout	2	Winchester ex-223	27 (0.011")		
300 Blackout	2	CBC	41 (0.0105")		
300 Blackout	2	Sellier & Bellot Lot 5092709992	55 (0.012")		
7.62 x 40 Wilson Tac	4				
300 HAM'r	18	Lake City 12 (ex- 223R)	19 (0.0105")		
7.62 x 39	33	Winchester	43 (0.0135")		
7.62 x 39	33	Lapua Lot# P00596401	67 (0.013")		
7.62 x 39	33	IMI	50 (0.0115")		
7.62 x 39	33	NK (1983)	55 (0.0115")		
7.62 x 39	33	NNY	61 (0.0115")		
30/30 Win.	62	PMC	36 (0.0115")		
30 Herrett	53	Winchester (ex- 30-30W)	54 (0.013)		
30 Herrett	53	Remington (ex- 30-30W)	41 (0.013")		
30/30 Win.	62	Winchester	36 (0.011")		
30/30 Win.	62	Winchester	27 unturned (0.0095")		
30/30 Win.	62	Remington	31 (0.011")		
30/30 Win.	62	Federal	28 (0.010")		
30/30 Win.	62	Norma	43 (0.010")		
30/30 Win.	62	PPU	29 (0.0095")		
30/30 Win.	62	Barnes	25 (0.010")		

30/30 Win.	62	Sellier & Bellot	43 (0.010")			
300 Savage	7	Winchester	47 (0.0125")			
300 Savage	7	Remington	40 (0.011")			
30 BR	10	Lapua (ex- 6BR) Lot# P00400701, P00962502, P1055002/1642417			50 (0.010\	46
30 BRX	64	Lapua (ex-6BR)	45 (0.011")	41	38	35
30 Dasher	52	Lapua (ex-6BR)			31 (0.009")	28
30 BRS (30 PPC)	1	Lapua (ex- 220 Russian)			43 (0.0095\	39
30 Rem AR	25					
30 x 47	50	Lapua (ex-308W)		60 (0.011")	57	54
30 x 47	50	Norma (ex-6XC)		60 (0.011")	57	54
308 Marlin Expresss	26	Hornady	40 (0.013")			
308 Win.	11	Remington	64 (0.015")	60	57	54
308 Win.	11	Remington Ni Plated	96 (0.016")			
308 Win.	11	Hornady	71 (0.015")	67	64	61
308 Win.	11	Hornady Match	63 (0.0155")	59	56	53
308 Win.	11	Lapua (Standard) Lot P00642101/1582312, P00850705/1031615, P00642102/2423512, P00805701/1822714, P00729002/0140314, P01007904/0751117,P01105102/1291918	93 (0.015")	89	85	81
308 Win.	11	Lapua (Standard) Lot P00930802/0210316, P00930901/0821216, P01055201/2503617, P00554701, Lot P00956601/1712416	95 (0.015")	91	87	83
308 Win.	11	Lapua (Standard) Lot P009309071/0827276, P00956602/1672416	101 (0.015")	96	92	88
308 Win.	11	Lapua HPS 12	99 (0.0155")	94	90	86
308 Win.	11	Lapua (Palma)Lot P00907402/2924315, P01049401/2964317, P00990002/3064416, P0099002/0030117, P01049402/2553717, P01049402/2373417, P01049401/0791217, P00858802/0691115, P00858802/1181815, P00669201Lot P00748001Lot P00307402	76 (0.015")	72	69	66
308 Win.	11	Lapua (Palma) Lot P00858802/1051615, P009074021/2924315, P01049401/1281917, P00907402, P01049401/0761117	93 (0.0155")	89	85	81
308 Win.	11	Federal	66 (0.016")	62	59	56
308 Win.	11	Federal Gold Medal Match	74 (0.015")	70	67	64
308 Win.	11	PMC	72 (0.014")	68	65	62
308 Win.	11	Winchester	41 (0.0125")	37	34	31
308 Win.	11	Lake City 07	75 (0.0145")	71	68	65
308 Win.	11	Lake City 06 Match, 09, 11, 12, 93, 95, 96, 04	71 (0.0145")	67	64	61
308 Win.	11	Lake City 08, 10, 13, 14, 98 Match	67 (0.0145")	64	61	58
308 Win.	11	Lake City 90 Match, 15	73 (0.0145")	69	66	63
308 Win.	11	Lake City 64, 89 Match	90 (0.015")	86	82	78
308 Win.	11	Frontier	49 (0.013")	45	42	39
308 Win.	11	IMI	94 (0.015")	90	87	84
308 Win.	11	CBC	90 (0.015")	86	82	78

308 Win.	11	MKE	70 (0.0145")	66	62	58
308 Win.	11	Norma Lot 100014771	95 (0.013")	91	87	84
308 Win.	11	Norma Lot 100019603	66 (0.013")	62	59	56
308 Win.	11	Black Hills	38 (0.0145")	34	31	28
308 Win.	11	ABM	92 (0.013")	88	85	82
308 Win.	11	CAC	64 (0.0135")	60	57	54
308 Win.	11	Geco	90 (0.014")	86	83	80
308 Win.	11	Sellier & Bellot	72 (0.015")	68	65	62
308 Win.	11	RWS	90 (0.013")	86	83	80
308 Win.	11	RWS lot# 430E	86 (0.0135")	82	79	77
308 Win.	11	Nosler	73 (0.0135")	69	66	63
308 Win.	11	Speer (Ni)	73 (0.0155")			
308 Win.	11	PPU	90 (0.015")	86	82	78
308 Win.	11	SHM	95 (0.014")	90	86	82
308 Win.	11	Peterson	91 (0.015")	86	82	78
308 Win.	11	Peterson Palma (small primer)	64 (0.014")	60	57	54
308 Win.	11	Prime	70 (0.0135")	66	63	60
308 Win.	11	Starline	89 (0.0145")	85	81	78
308 Win.	11	Tikka	67 (0.013")	63	60	57
308 Win.	11	ADI	74 (0.0135")	70	67	64
308 Win.	11	SBS 08	92 (0.014")	88	84	80
308 Win.	11	IVI 11	66 (0.013")	62	59	56
308 Win.	11	Nexus	62 (0.0145")	58	55	52
308 Win.	11	GGG 14	92 (0.014")	87	83	79
308 Win.	11	GGG NRA 155	96 (0.0155")	92	88	84
308 Win.	11	TW 69	71 (0.014")	67	64	61
308 Win.	11	SSA	60 (0.013")	56	53	50
308 Win.	11	PSD	90 (0.0145")	86	84	80
308 Win.	11	WCC 14	71 (0.0145")	67	64	61
308 Win.	11	Alpha Munitions 01A171120A5	67 (0.0155")	63	60	57
308 Win.	11	GFL Fiocchi	67 (0.015")	63	60	57
308 Win.	11	WRA 67	75 (0.0145")	71	68	65
308 Win.	11	Kinetic	62 (0.0135")	58	55	52
308 Win.	11	PMP	76 (0.014")	72	69	66
30 - 40 Krag	9	Remington	43 (0.0115")			
30TC	7					
30x57 (ex 8mm Mauser)	35	Norma		67 (0.013")	63	60
30x57 (ex 8mm Mauser)	35	RWS		67 (0.013")	63	60
30x57 (ex 8mm Mauser)	35	Sellier & Bellot		67 (0.013")	63	60
30-06 Springfield	14	Norma Re (note headstamp)	60 (0.013")	56	53	50
30-06 Springfield	14	Hornady	53 (0.0125")	49	46	43
30-06 Springfield	14	Federal	62 (0.013")	58	55	52
30-06 Springfield	14	PMC	60 (0.014")	56	53	50
30-06 Springfield	14	Nosler	67 (0.0135")	63	60	57

30-06 Springfield	14	Nosler (AI) Note: different lot. We recommend always sending Nosler for verification	58 (0.0125")	54	51	48
30-06 Springfield	14	Lake City 66, 69	60 (0.013")	56	53	50
30-06 Springfield	14	Lake City 65, 68, 68 Match	54 (0.013")	50	47	44
30-06 Springfield	14	Remington	60 (0.014")	56	53	50
30-06 Springfield	14	Remington Ni plated	70 (0.016")			
30-06 Springfield	14	HXP	68 (0.015")	64	61	58
30-06 Springfield	14	Winchester	58 (0.015")	54	51	48
30-06 Springfield	14	Lapua	74 (0.0155")	70	67	64
30-06 Spr. AI	14	Lapua	60 (0.015")	56	53	50
30-06 Springfield	14	Sellier & Bellot Lot 1156-169	65 (0.0135")	61	58	55
30-06 Springfield	14	Black Hills	69 (0.0125")	65	62	59
30-06 Springfield	14	Barnes	55 (0.012")	51	48	45
30.06 Springfield	14	PPU (nny)	53 (0.0125")	49	46	43
30-284	12	Winchester	56 (0.014")	52	49	46
308 Otey	63	RWS (ex-9.3x64)	63 (0.0135")			
300 H&H	B29	Norma	66 (0.015")			
300 H&H	B29	Remington	66 (0.014")			
300 H&H	B29	Hornady	57 (0.012")			
300 PRC	31	Samples required				
300 Rem. SAUM	20	Remington	65 (0.015")	61	58	55
300 Rem. SAUM	20	Norma Lot 20276111	99 (0.016")	95	92	89
308 Norma Mag	B27	Norma IMP (ex-300 Win Mag)				53 (0.011")
308 Norma Mag	B27	Norma	73 (0.014")	69	66	63
30R Blaser	B30	T (Thun /Blaser)	89 (0.015")	84	80	77
300 WSM	21	Federal	63 (0.015")	59	56	53
300 WSM	21	Winchester	54 (0.014")	50	47	44
300 WSM	21	Remington	59 (0.0155")	55	52	49
300 WSM	21	Norma	99 (0.0155")	95	92	89
300 WSM	21	Barnes	67 (0.0155")	64	61	58
300 WSM	21	Hornady	69 (0.015")	65	62	59
300 WSM	21	Nosler	99 (0.016")	95	92	89
7.82 Lazzeroni Patriot	87					
300 Ruger Compact Mag	28					
30-338 Win Mag	B15	WW Super (ex-300 H&H)	45 (0.0135")	41	38	35
30-338 Win Mag	B15	Lapua (ex 338 Win Mag)	58 (0.0145")	54	51	48
30-338 Win Mag	B15	Norma (ex-338 Win Mag)	62 (0.014")	58	55	52
30-338 Win Mag	B15	Remington (ex-7mm Rem Mag)	52 (0.0135")	48	45	42
30-338 Win Mag	B15	Remington (ex-338 Win Mag)	48 (0.0125")	44	41	38
30-338 Win Mag	B15	Federal (ex-7mm Rem Mag)	46 (0.013")	42	39	36
30-338 Win Mag	B15	Weatherby (ex-7mm Rem Mag)	89 (0.014")	85	82	79
300 Win. Mag.	B29	Federal	55 (0.015")	51	48	45
300 Win. Mag.	B29	Federal 07, 08, 11, 12, 13, 14,	54 (0.014")	50	47	44
300 Win. Mag.	B29	Federal (Ni. plate)	56 (0.014")			

300 Win. Mag.	B29	Nosler Lot# 10227	60 (0.014")	56	53	50
300 Win. Mag.	B29	Norma (NB neck thickness)	59 (0.017")	55	52	49
300 Win. Mag.	B29	Winchester	54 (0.013")	50	47	44
300 Win. Mag.	B29	Frontier	60 (0.0135")	56	53	50
300 Win. Mag.	B29	Remington	50 (0.0135")	46	43	40
300 Win. Mag.	B29	Norma	60 (0.014")	56	53	50
300 Win. Mag.	B29	Norma Lot 20196	55 (0.014")	51	48	45
300 Win. Mag.	B29	Black Hills	65 (0.014")	61	58	55
300 Win. Mag.	B29	RUAG	71 (0.014")	67	64	61
300 Win. Mag.	B29	RWS	75 (0.014")	71	68	65
300 Win. Mag.	B29	Hornady	45 (0.014")	42	39	36
300 Win. Mag.	B29	ABM	58 (0.014")	54	51	48
300 Win. Mag.	B29	SIG	63 (0.0145")	59	56	53
300 Win. Mag.	B29	Lapua	57 (0.0145")	53	50	47
300 Win. Mag.	B29	PPU	52 (0.012")	48	45	42
300 Win. Mag.	B29	Jagemann	67 (0.0135")	63	60	57
300 Win. Mag.	B29	Sako	61 (0.0145")	57	54	51
300 Win. Mag.	B29	Bertram/HSM	55 (0.0125")	51	48	45
300 Wby Mag.	B30	Norma	60 (0.013")	56	53	50
300 Win Mag.	B29	MEN	94 (0.015")	89	85	81
300 Wby Mag. AI	B30	Hornady	46 (0.0125")	42	39	36
300 Wby Mag	B30	Wby. Lot #007248	53 (0.013")	49	46	43
300 Jarrett	B23	Remington (ex-8MM R. Mag)	54 (0.014")			
300 Jarrett	B23	Jarrett	66 (0.0135")	62	59	56
300 Jarrett						
300 Dakota	31	Dakota	54 (0.013")	50	47	44
300 Blacktornado	67	Norma (ex-300 Norma)				117 (0.0125")
300 Norma Mag.	67	Norma	125 (0.0165")	121	116	111
300 Norma Mag.	67	Peterson		120 (0.0165")	115	110
300 Rem. Ultra Mag.	24	Nosler	90 (0.015")	86	83	80
300 Rem. Ultra Mag.	24	Norma	90 (0.015")	86	83	80
300 Rem. Ultra Mag.	24	Barnes	59 (0.014")	55	52	49
300 Rem. Ultra Mag.	24	Remington	58 (0.014")	54	51	48
30-338 Lapua Mag AI	37	Lapua			68 (0.013")	63
300 Rem. Ultra Mag.	24	Federal (Ni)	53 (0.014")			
30 Nosler	66	Nosler		120 (0.0153") turned	115	111
30-378 Wby Mag.	B32	Norma	69 (0.0135")	65	62	59
30-378 Wby Mag.	B32	Weatherby	76 (0.0125")	72	69	66
30-378 Wby Mag	B32	Nosler	72 (0.013")	68	65	62
7.62 x 53R	59	Lapua Lot P00684701/1271913	43 (0.0115")			
7.62 x 54R	59	PPU	38 (0.0115")			
7.62 x 54R	59	NNY 1981	37 (0.0105")			
7.62 x 54R	59	Winchester	52 (0.0115")			
303 Savage	50	PPU (Note: neck walls taper)	70 (0.012")			

303 Savage	50	Norma (Note: neck walls taper)	69 (0.0115")			
303 British	34	Remington	42 (0.013")			
303 British	34	PPU	55 (0.0135")			
303 British	34	IVI - 8Z	38 (0.0115")			
303 British	34	Sellier & Bellot	67 (0.013")			
303 British	34	Federal	51 (0.0125")			
303 British	34	Winchester	48 (0.0115")			
303 British	34	WW Super	56 (0.012")			
7.65 x 53 Argentine	35	Norma	68 (0.0145")			
7.7 x 58 Japanese	14	PPU	48 (0.012")			
32-20 WCF	2	Starline	1 (0.0065")			
32 Win. Special	62	Winchester	31 (0.010")			
8 x 50R Lebel	69	PPU	44 (0.0115")			
8x57 Mauser	35	Winchester	55 (0.013")			
8x57 Mauser	35	Remington	50 (0.012)			
8x57 Mauser	35	Norma	66 (0.0135")			
8 x 57 Mauser	35	Nosler	74 (0.0135")			
8 x 57 Mauser	35	PPU	50 (0.012")			
8mm-06	14					
323 Varmtresk	14	Norma (ex-30.06)	49 (0.013")			
323 Varmtresk	14	Lapua (ex-30.06)	58 (0.0135")			
325 WSM	21	Winchester	58 (0.014")			
325 WSM	21	Winchester (Ni)	71 (0.014")			
325 WSM	21	Nosler	94 (0.014")			
8x68 S	31					
8mm Rem Mag.	B23	Remington	54 (0.014")			
8.5 x 63	75	Sax	43 (0.011")			
8.5 x 63	75	Nosler (ex- 35 Whelan)	44 (0.013")			
8.5 x 63	75	Norma (ex- 338.06)	54 (0.014")			
8.5 x 63	75	Horneber	43 (0.011")			
338 Spectre	82	SBR	31 (0.012")			
338 Federal	11	Federal	66 (0.014")			
338 Marlin Express	36					
338-303	34	PPU	42 (0.0105")			
338-284	12	Norma	70 (0.0145")			
338-06 Ackley	14	Remington	56 (0.013")			
338-06 Ackley	14	Norma	65 (0.0135")			
338 Ruger Compact Mag.	20					
338 Win Mag.	B15	Federal	62 (0.0013")	58	55	52
338 Win Mag.	B15	Federal (Ni. Plated)	63 (0.013")			
338 Win Mag.	B15	Norma #20285041	60 (0.014")	56	53	50
338 Win Mag.	B15	Hornady	43 (0.013")	39	36	33
338 WSM	21	Nosler (ex-325WSSM) Lot HL12B3141	92 (0.015")	88	84	80
338 WSM	21	Nosler (ex-300 WSM)	69 (0.0155")	65	62	59

338 WSM	21	Norma (ex-300 WSM) Lot 100021369	95 (0.015")	91	87	83
338 Win Mag.	B15	Winchester	43 (0.0125")	39	36	33
338 Win Mag.	B15	Remington	49 (0.0125")	45	42	39
338 Win Mag.	B15	Nosler	59 (0.0135")	55	52	49
330 Dakota	31					
338 Blaser	22	Norma	92 (0.013")	88	84	80
338 Super (ex-300 Wby Mag)	B30	Remington	42 (0.012")	38	35	32
340 Wby Mag.	B30	Weatherby	54 (0.013")	50	47	44
338 Norma Mag.	67	Norma	101 (0.014")	96	91	86
338 Norma Mag	67	Norma Lot#10245205	126 (0.0145")	121	116	111
338 Rem Ultra Mag.	24	Remington	50 (0.0145")	46	43	40
338 Rem Ultra Mag.	24	Nosler	70 (0.014")	66	63	60
338 Edge	24	Nosler (ex-300 RUM)	71 (0.015")	67	64	61
338 Edge	24	Norma (ex-300 RUM)		69 (0.0145")	66	63
338 Edge	24	Bertram	60 (0.0135")	56	53	50
338 Lapua Mag.	37	Hornady	71 (0.015")	67	64	61
338 Lapua Mag.	37	Lapua Lot# P00828601/1181815, P00682403/1051613, P00631703/1842712	99 (0.015")	94	90	86
338 Lapua Mag.	37	Lapua Lot P00877601/1101715, P00828602/1101715	121 (0.015")	116	112	108
338 Lapua Mag.	37	Lapua Lot P00982605/3354816	124 (0.015")	119	115	111
338 Lapua Mag. AI	37	Lapua Lot P00964301/1512216, P00828601/0791215	99 (0.015")	94	90	86
338 Lapua Mag.	37	Black Hills	99 (0.015")	94	91	88
338 Lapua Mag.	37	Norma	101 (0.015")	94	91	88
338 Lapua Mag.	37	Nosler	101 (0.015")	94	91	88
338 Lapua Mag.	37	T - RUAG	101 (0.015")	94	91	88
338 Lapua Mag.	37	RWS	101 (0.015")	94	91	88
338 Lapua Mag.	37	PPU	94 (0.017")	90	86	82
338 Lapua Mag.	37	ABM	101 (0.0145")	96	92	88
338 Lapua Mag.	37	Federal Note: no lot number. Unusually high program for Federal brass.	122 (0.014")	117	113	109
338 Lapua Mag.	37	Winchester	60 (0.014")	56	53	50
338 Lapua Mag.	37	Sellier & Bellot	72 (0.014")	68	65	62
338 Lapua Mag.	37	Swiss Munitions	121 (0.0145")	116	112	108
338 Lapua Mag.	37	Peterson Lot W1TL005	90 (0.015")	86	82	78
338 Lapua Mag.	37	HP	94 (0.014")	89	85	81
338 Terminator	37	Lapua (ex-338 LM)	95 (0.0145")	90	86	82
338-378 Wby	B32	Norma	87 (0.0145")	83	80	77
338-378 Wby	B32	WBY-N (head stamp)	95 (0.014")	91	88	85
338 Excalibur	B32	A-Square	59 (0.0145")	55	52	49
33 XC	92	Peterson	69 (0.015")	65	62	59
338 Sniper Tac.	56	Bertram (ex-375 Cheytac)		59 (0.013\	56	53
338 Sniper Tac.	56	Jamison (ex-375 Cheytac)	90 (0.0155")	86	82	78

338 Raptor	84	Bertram	41 (0.013")	37	34	31
338-375 Cheytac	56	Peterson (ex-375 Cheytac) Lot W1TL0022	71 (0.014")	65	60	55
348 Winchester	21					
357 Maximum	4	Remington	14 (0.0095")			
357 Maximum	4	Starline	23 (0.0095")			
357 Magnum	81	CBC	11 (0.009")			
357 Magnum	81	Winchester	12 (0.010")			
357 Magnum	81	Lapua	24 (0.010")			
35 Remington	50	Federal	49 (0.010")			
35 Remington	50	Winchester	54 (0.012")			
35 Remington	50	Remington	53 (0.011")			
358 Win.	11	Winchester	38 (0.011")			
358 Win.	11	Hornady	55 (0.013")			
358 Win.	11	Starline	62 (0.013")			
350 Rem. Mag.	21	Remington	56 (0.013")			
35 Whelen	14	Norma	53 (0.012")			
350 Rem Mag	21	Nosler Lot #5384/B	95 (0.013")			
350 Rem. Mag.	21	Remington (ex-6.5 Rem Mag)	49 (0.013")			
35 Whelen	14	Remington	47 (0.012")			
35 Whelen	14	Hornady	45 (0.011")			
358 Otey	54	RWS (ex-9.3x64)	63 (0.0125")	59	56	53
35 HCR	B15	Federal (ex-338 Win Mag)	49 (0.013")	45	42	39
358 Norma Mag.	B27					
358 S. Times Alaskan	B23	WW Super (ex-375 H&H)	42 (0.012")			
35 - 300 Dakota	31	Dakota	45 (0.013")			
358 S. Times Alaskan	B23	Remington (ex-8mm Rem Mag)	49 (0.013")			
358 S. Times Alaskan	B23	Quality Cartridge	33 (0.0115")			
360 x 2 1/4 BPE	35	Bertram	36 (0.011")			
360 x 2 1/4 BPE	35	RWS (ex-9.3 x 72R)	69 (0.013")			
360 x 2 1/4 BPE	35	DWM (ex-9.3 x 72R)	52 (0.011")			
9.3 x 62	B15	PPU	40 (0.009")			
9.3 x 62	B15	PPU	38 (0.009")			
9.3 x 62	B15	Norma	53 (0.0115")			
9.3 x 62	B15	Hornady	42 (0.012")			
9.3 x 62	B15	Lapua Lot P00620001/3034412	53 (0.011")			
9.3 x 64 Brenneke	54	RWS	62 (0.013")			
9.3 x 66 Sako	B29	Sako	40 (0.011")			
9.3 x 74R	B23	T (Thun/Blaser)	46 (0.0125")			
375 Winchester	34	Winchester	17 (0.010")			
375 JDJ (x 444 Marlin)	35	Remington	39 (0.011")			
375/06 AI	14	Nosler (ex-35 Whelan)	47 (0.0115")			
375 H&H	B30	Remington	50 (0.013")			
375 H&H	B30	Federal (Ni)	40 (0.011")			
375 H&H	B30	PPU	51 (0.010")			

375 H&H	B30	Winchester	53 (0.0115")			
375 H&H	B30	Norma	64 (0.012")			
375 H&H	B30	Hornady	47 (0.012")			
375 H&H	B30	RWS	52 (0.010")			
376 Steyr	63	Hornady	46 (0.0135")			
375 Ruger	38	Hornady	46 (0.013")			
375 Wby Mag.	B39	Weatherby	35 (0.012")			
375 Dakota	31					
375 Sniper Tac AI	56	Jamison		68 (0.014")	63	60
375 Rem. Ultra Mag	24	Remington	47 (0.0125")			
378 Wby. Mag.	B32					
375-338 Lapua	37	Lapua (ex-338 LM)	73 (0.014")	69	66	63
37 XC	92	Peterson (ex-33 XC)	67 (0.0145)	63	60	57
375 Lethal Magnum	B93	Bertram (ex- 585 HE)	39 (0.013")	35	32	29
375 EnABELR (Mark II only)	88	Peterson	76 (0.015")	72	69	66
375 Cheytac	56	Peterson	70 (0.014)	66	63	60
375 Cheytac	56	Bertram	67 (0.013)	63	60	57
38-40 Win	10					
38-55 Win	61	Winchester	24 (0.011")			
38-55 Win	61	Starline (long/short)	15 (0.010")			
40-65 Win	45	Starline	33 (0.012")			
40-65 Win	45	PMC	35 (0.011")			
40-65 Win	45	Remington (ex-45-70 Govt)	35 (0.010")			
40-65 Win	45	Winchester	32 (0.011")			
40-70 Sharps Straight	14	RMC	33 (0.011")			
40-82 Win	60	Bertram	38 (0.0115")			
40-82 Win	60	Starline (re-formed 45-90)	45 (0.012")			
40-82 Win	60	Jamison	46 (0.011")			
405 Win	54	Hornady	45 (0.0105")			
450/400 NE 3"	41	Hornady	61 (0.013")			
408 Cheytac	56	Jamison	67 (0.0145")			
408 Cheytac	56	Bertram	63 (0.0125")			
41 Rem Mag	10	Winchester	20 (0.011")			
416 Taylor	B15	Jamison	61 (0.014")			
416 Taylor						
416 Rigby	40	Norma	66 (0.013")			
416 Ruger	38					
416 Rem Mag.	B23	Hornady	29 (0.0105")			
416 Rem Mag.	B23	Bertram	35 (0.011")			
416 Rem Mag.	B23	Norma	61 (0.0135")			
416 Dakota	41					
416-338 Lapua Mag	37	Lapua	74 (0.014")	70	67	64
416 Wby. Mag	B32					
416 Barrett	401 (Mark II only)	See AZTEC listing				

404 Jeffery	38	Norma	90 (0.0135")		
43 Spanish	21	Bertram	23 (0.009")		
43 Spanish	21	Jamison	25 (0.010")		
44-40 Win	10	Starline	01 (0.007")		
44-40 Win	10	BHA	01 (0.007")		
44-40 Win	10	CBC	06 (0.009")		
44-40 Win	10	Starline Ni plated	03 (0.008")		
44 Rem. Mag	10	Remington	30 (0.012")		
44 Rem. Mag	10	Starline	29 (0.013")		
44 Rem. Mag	10	Hornady	22 (0.0115")		
44 Rem. Mag	10	Fiocchi (GFL)	37 (0.013")		
44 Rem. Mag	10	CBC	22 (0.011")		
44 Rem. Mag	10	Selleir& Bellot	30 (0.012")		
44 Rem. Mag	10	WW Super	22 (0.012")		
445 Super Mag.	50				
45 Raptor	50	Starline	34 (0.012")		
444 Marlin	35	Remington	33 (0.011")		
444 Marlin	35	Remington Ni plated	42 (0.010")		
45 Colt	83	Starline	25 (0.0115")		
454 Casull	52	Starline	27 (0.0115")		
458 SOCOM	55	Starline	52 (0.014")		
450 Bushmaster	77	Hornady	56 (0.0135")		
45 - 110	B29	Bertram	39 (0.010")		
45-70 Govt.	45	Federal	26 (0.011")		
45-70 Govt.	45	Winchester	31 (0.011")		
45-70 Govt.	45	Remington	33 (0.009")		
45-70 Govt.	45	Starline	34 (0.0115")		
45-70 Govt.	45	Starline Ni. Plated	41 (0.012")		
45-70 Govt.	45	Hornady	22 (0.0095")		
45-70 Govt.	45 (045B)	PMC	36 (0.0105")		
45-90 Win	60	Starline	38 (0.012")		
450 Marlin	20	Hornady	56 (0.013")		
577 x 450 Martini Henry	91 (Mark II only)	Magtec (ex-24G shotgun brass)	64 (0.014")		
577 x 450 Martini Henry	91 (Mark II only)	Bertram	49 (0.013")		
45-120 Sharps	94	Norma	30 (0.010")		
458 Win Mag.	B15				
450 Rigby	40	Norma	64 (0.0125")		
450 Nitro Express	68	Hornady	38 (0.0105")		
460 SW	50	Starline	34 (0.011")		
458 Lott	B30	Hornady	30 (0.010")		
460 Wby Mag.	B32				
470 Nitro Express	68	Westley Richards	54 (0.0115")		
470 Nitro Express	68	Hornady	36 (0.010")		
475 Turnbull	21	Starline	45 (0.0125")		

50 AE	74	Hornady	34 (0.0135")		
50 AE	74	Federal	42 (0.0135")		
50 AE	74	Starline	43 (0.0135")		
500 SW	71	Hornady	40 (0.013")		
500 SW	71	Federal	48 (0.014")		
500 SW	71	Starline	49 (0.014")		
50-70 Govt.	69	Starline	22 (0.0105")		
50 Beowulf	71	Starline	40 (0.013")		
50 Beowulf	71	Alexander Arms	35 (0.0125")		
50 - 110(510 Kodiak)	65				
500 Nitro Express	B32	Hornady	36 (0.0095")		
500 Jeffery	79	Norma Lot 100020348	68 (0.0125")		
50 BMG	501 (Mark II only)	All 50 BMG listings only work with Mark II model annealer.	Mark II only		
50 BMG	501	Lake City 06, 09, 10	194 (0.0215")		
50 BMG	501	Lake City 07	185 (0.0215")		
50 BMG	501	Lake City 95	184 (0.0205")		
50 BMG	501	WCC 07	190 (0.0205")		
50 BMG	501	PSD 05	188 (0.0205")		
50 BMG	501	SBS 09	187 (0.020")		
50 BMG	501	PMC	193 (0.020")		
50 BMG	501	IVI 08	187 (0.020")		
50 BMG	501	IVI 09	190 (0.022")		
50 BMG	501	CBC	196 (0.020")		
50 BMG McMurdo Imp.	503 (Mark II only)	DAG 09	196 (0.020")		
505 Gibbs	89	Jamison	59 (0.0125")		
577 Nitro Express 3"	90	Jamison	42 (0.010")		
577 Snider	91				