

### 30-06 Springfield

Fire arm		stock#	2145	2140	2200	7768	4665			
	Universal									
Barrel length& twist	24"/ 1-10"	desc.	165 gr. SBT	165 gr. HPBT	gr. HPBT	M3 gr. TMK Ma	165gr TGK			
Case/primer	Winchester/ Win LR	C.O.A.L	3.320	3.220	3.320	3.330	3.330			
		2400	2500	2600	2700	2800	2850	2875	2900	2950
IMR Powders	IMR 3031	42.1	43.9	45.6	<b>47.4</b>					
IMR Powders	IMR 8208 XBR		44.4	46.1	47.9	49.6	50.5	<b>50.9</b>		
Hodgdon	H4895	41.7	43.7	45.7	47.8	49.8	<b>50.8</b>			
Hodgdon	Varget	44.1	45.7	47.4	49.0	50.7	51.5	<b>51.9</b>		
IMR Powders	IMR 4895	43.5	45.2	46.9	<b>48.6</b>					
IMR Powders	IMR 4166 End.	42.7	44.4	46.1	47.8	49.5	<b>50.4</b>			
IMR Powders	IMR 4064	44.1	45.8	47.4	49.1	<b>50.7</b>				
Accurate Powders	A4064	44.2	45.9	47.6	49.3	51.0	51.8	<b>52.3</b>		
Alliant Powders	RE 15			47.6	49.4	51.2	52.1	52.5	<b>53.0</b>	
Ramshot Western	Big Game		48.5	50.3	52.1	53.9	54.8	55.3	<b>55.8</b>	
Winchester Powders	Win 760	48.5	50.5	52.5	54.5	56.5	<b>57.5</b>			
Vihta vuori Powders	N540			48.4	50.0	51.6	52.4	52.8	<b>53.2</b>	
Alliant Powders	RE 17		49.7	51.4	53.1	54.7	55.6	56.0	56.4	<b>57.2</b>
IMR Powders	IMR 4350	49.4	51.3	53.2	55.1	57.0	<b>58.0</b>			
IMR Powders	IMR 4451 End.	50.0	51.9	53.9	55.8	57.7	58.6	<b>59.1</b>		
Accurate Powders	A 4350		52.5	54.4	56.3	<b>58.3</b>				
Hodgdon	H4350		51.1	52.8	54.6	56.3	57.2	57.6	<b>58.0</b>	
Alliant Powders	RE 19	52.8	54.5	56.2	57.9	<b>59.6</b>				
Hodgdon	H4831sc	53.1	55.0	56.9	<b>58.8</b>					
Alliant Powders	RE 22	52.4	54.2	56.1	57.9	<b>59.7</b>				
<b>energy ft/lbs</b>		<b>2110</b>	<b>2289</b>	<b>2476</b>	<b>2670</b>	<b>2872</b>	<b>2975</b>	<b>3028</b>	<b>3081</b>	<b>3188</b>

### 300 Winchester Magnum

Fire arm	Universal	stock#	2145	2140	2200	7768	4665				
			165 gr. SBT	165 gr. HPBT	gr. HPBT Ma	gr. TMK Ma	165gr TGK				
Barrel length& twist	24"/ 1-10"	desc.	3.340	3.250	3.340	3.340	3.340				
Case/primer	Hornady/ WLRM	C.O.A.L									
			<b>2800</b>	<b>2900</b>	<b>3000</b>	<b>3100</b>	<b>3175</b>	<b>3200</b>	<b>3225</b>	<b>3250</b>	
105 Hodgdon	H4895		55.8	58.7	<b>61.7</b>						
116 Alliant Powders	RE 15		58.6	61.1	63.7	<b>66.2</b>					
117 Alliant Powders	RE 16		62.9	65.2	67.4	69.7	71.4	<b>71.9</b>			
132 Alliant Powders	RE 17		62.7	64.8	66.9	69.0	70.6	<b>71.1</b>			
133 IMR Powders	IMR 4350		65.3	67.5	69.7	<b>71.9</b>					
134 IMR Powders	IMR 4451 End.		65.2	67.5	69.7	72.0	<b>73.7</b>				
138 Hodgdon	H4350		64.8	67.1	69.3	71.5	73.2	<b>73.8</b>			
139 Hodgdon	Hybrid 100V		62.5	64.8	67.1	69.4	71.1	<b>71.7</b>			
142 Ramshot Western	Hunter		65.8	68.1	70.4	72.6	74.3	<b>74.9</b>			
146 Hodgdon	H4831sc		69.8	72.2	74.6	77.0	<b>78.8</b>				
149 IMR Powders	IMR 4955 End.		67.4	69.8	72.2	74.6	<b>76.4</b>				
150 Vihta vuori Powders	N560		72.2	74.2	76.1	78.1	79.5	80.0	<b>80.5</b>		
153 Alliant Powders	RE 22		69.6	71.5	73.4	75.2	76.6	77.1	77.5	<b>78.0</b>	
156 IMR Powders	IMR 7828ssc		71.8	73.9	76.0	78.1	<b>79.7</b>				
160 Alliant Powders	RE23		68.2	70.5	72.8	75.1	76.8	77.4	<b>78.0</b>		
161 IMR Powders	IMR 7977 End.		75.2	77.6	<b>80.0</b>						
<b>energy ft/lbs</b>			<b>2872</b>	<b>3081</b>	<b>3297</b>	<b>3520</b>	<b>3693</b>	<b>3751</b>	<b>3810</b>	<b>3869</b>	

### 308 Winchester

Fire arm	Universal	Barrel length& twist	24"/ 1-10"	stock#	2145	2140	2200	7768	4665	
					165 gr. SBT	165 gr. HPBT	gr. HPBT M3	gr. TMK Ma	165gr. TGK	
Case/prim	er	Winchester/ WLR	desc.	C.O.A.L	2.750	2.750	2.800	2.800	2.800	
					<b>2500</b>	<b>2600</b>	<b>2700</b>	<b>2750</b>	<b>2800</b>	<b>2850</b>
84	Hodgdon	Benchmark			38.5	40.2	41.9	<b>42.8</b>		
86	IMR Powders	IMR 3031			39.3	40.9	<b>42.5</b>			
95	IMR Powders	IMR 8208 XBR			39.3	41.2	43.0	<b>43.9</b>		
98	Winchester Powder	Win 748			42.0	43.3	44.6	45.3	<b>45.9</b>	
100	Accurate Powders	XMR 2495			40.7	42.2	43.8	44.5	<b>45.3</b>	
101	Ramshot Western	TAC			40.6	42.2	43.8	44.6	<b>45.4</b>	
102	Hodgdon	H335			40.1	41.7	43.2	44.0	<b>44.8</b>	
105	Hodgdon	H4895			39.3	41.0	42.6	43.4	<b>44.2</b>	
107	Hodgdon	Varget			40.9	42.5	44.2	45.0	<b>45.8</b>	
108	IMR Powders	IMR 4895			40.4	42.1	43.9	44.7	<b>45.6</b>	
110	Alliant Powders	AR Comp			39.8	41.3	42.8	43.6	<b>44.3</b>	
111	IMR Powders	IMR 4166 End.			39.9	41.2	42.6	43.3	<b>44.0</b>	
112	IMR Powders	IMR 4064			41.0	<b>42.6</b>				
116	Alliant Powders	RE 15			41.6	42.9	44.3	44.9	<b>45.6</b>	
118	Hodgdon	CFE 223			42.5	44.0	45.6	46.4	47.1	<b>47.9</b>
124	Vihta vuori Powder:	N140			42.2	43.6	<b>45.0</b>			
<b>Energy Ft/lbs</b>					<b>2289</b>	<b>2476</b>	<b>2670</b>	<b>2770</b>	<b>2872</b>	<b>2975</b>



## 6mm Remington

Fire arm		Universal							
Barrel length& twist	24"/ 1-8"	stock#	1535	1537	7295	4100			
	Case/primer	hornady/ Win LR	desc.	90 gr. FMJB	95 gr. HPBT	95 gr. TMK M	90gr TGK		
			C.O.A.L	2.825	2.825	2.825	2.825		
			<b>2900</b>	<b>3000</b>	<b>3100</b>	<b>3150</b>	<b>3200</b>	<b>3250</b>	<b>3300</b>
Alliant Powders	RE 16		40.3	41.7	43.1	43.8	44.5	<b>45.2</b>	
Vihta vuori Powders	N540		37.2	38.6	39.9	40.6	41.2	<b>41.9</b>	
Alliant Powders	RE 17		39.4	40.8	42.2	42.9	43.6	44.2	<b>44.9</b>
IMR Powders	IMR 4350		40.3	41.7	43.1	43.8	<b>44.6</b>		
IMR Powders	IMR 4451 End.		40.4	41.7	43.0	43.6	<b>44.3</b>		
Accurate Powders	Xmr 4350		42.0	43.3	44.5	45.2	45.8	<b>46.4</b>	
Hodgdon	H4350		39.9	41.3	42.6	43.3	44.0	<b>44.7</b>	
IMR Powders	IMR 4831		43.1	44.4	45.6	<b>46.3</b>			
Hodgdon	H4831sc		43.8	45.3	46.7	47.4	48.2	<b>48.9</b>	
IMR Powders	IMR 4955 End.		41.2	42.6	44.0	<b>44.7</b>			
Vihta vuori Powders	N560		45.0	46.1	47.2	47.7	48.3	48.8	<b>49.4</b>
IMR Powders	IMR 7828ssc		44.5	45.8	47.2	47.9	<b>48.6</b>		
Alliant Powders	RE23		41.7	43.2	44.8	45.5	46.3	<b>47.0</b>	
Ramshot Western	Magnum		48.9	50.4	52.0	52.7	53.5	54.3	<b>55.1</b>
Hodgdon	H1000		46.7	48.2	49.8	50.6	<b>51.4</b>		
<b>Energy Ft/lb</b>			<b>1774</b>	<b>1898</b>	<b>2027</b>	<b>2093</b>	<b>2160</b>	<b>2228</b>	<b>2297</b>

## 243 Winchester

Fire arm	Universal							
	Barrel length& twist	24"/ 1-8" stock#	1535	1537	7295	4100		
Case/prim	er	nchester/ W desc. C.O.A.L	90 gr. FMJB 2.650	95 gr. HPBT 2.700	95 gr. TMK M 2.700	90gr TGK 2.700		
			<b>2850</b>	<b>2950</b>	<b>3050</b>	<b>3100</b>	<b>3150</b>	<b>3200</b>
105	Hodgdon	H4895	33.2	34.7	<b>36.2</b>			
107	Hodgdon	Varget	34.8	36.0	<b>37.3</b>			
108	IMR Powde	IMR 4895	34.4	<b>35.6</b>				
116	Alliant Pow	RE 15	34.6	36.1	37.5	38.3	<b>39.0</b>	
117	Alliant Pow	RE 16	38.0	39.4	40.8	41.5	<b>42.1</b>	
122	Alliant Pow	Power Pro 2000 MR		38.8	40.2	40.9	<b>41.6</b>	
116	IMR Powde	IMR 4451	39.6	41.0	42.4	<b>43.1</b>		
115	IMR Powde	IMR 4350	38.9	40.2	<b>41.6</b>			
117	Hodgen	H4350	38.3	39.7	41.2	41.9	<b>42.7</b>	
119	Accurate	AA4350	39.1	40.7	42.3	43.1	<b>44.0</b>	
123	Alliant Pow	RL 19	42.3	43.6	44.8	45.5	46.1	<b>46.7</b>
128	Hodgen	H3841sc	41.9	43.3	44.6	<b>45.3</b>		
163	Hodgdon	H1000	44.1	45.8	<b>47.4</b>			
<b>Energy Ft/lbs</b>			<b>1623</b>	<b>1739</b>	<b>1859</b>	<b>1920</b>	<b>1983</b>	<b>2046</b>

## 6mm Creedmoor

Fire arm	Universal						
	Barrel length & twist	24" / 1-8"	stock#	1535	1537	7295	4100
Case/primer	Hornady/ WLR	desc.	90 gr. FMJB	95 gr. HPBT	95 gr. TMK M	90gr TGK	
		C.O.A.L	2.600	2.750	2.770	2.770	

			<b>2800</b>	<b>2900</b>	<b>3000</b>	<b>3100</b>	<b>3150</b>	<b>3250</b>	<b>3300</b>
95 IMR Powders	IMR 8208 XBR		32.7	34.1	35.5	<b>37.0</b>			
105 Hodgdon	H4895		32.7	34.1	35.5	<b>37.0</b>			
107 Hodgdon	Varget		33.7	35.2	36.6	38.1	<b>38.8</b>		
111 IMR Powders	IMR 4166 End.		32.9	34.3	35.7	37.0	<b>37.7</b>		
112 IMR Powders	IMR 4064		34.3	35.6	37.0	<b>38.3</b>			
116 Alliant Powders	RE 15		34.4	35.7	37.0	38.3	<b>38.9</b>		
117 Alliant Powders	RE 16		37.9	39.3	40.8	42.2	42.9	44.4	<b>45.1</b>
126 Ramshot Western	Big Game		36.4	37.9	39.3	40.8	41.5	<b>43.0</b>	
131 Vihta vuori Powder	N540		34.2	35.6	37.0	38.5	<b>39.2</b>		
132 Alliant Powders	RE 17			38.3	39.7	41.1	41.8	<b>43.2</b>	
134 IMR Powders	IMR 4451 End.		38.1	39.5	40.9	42.3	<b>43.0</b>		
138 Hodgdon	H4350		37.5	38.9	40.3	41.7	<b>42.4</b>		
142 Ramshot Western	Hunter			40.1	41.6	43.2	43.9	<b>45.5</b>	
144 Alliant Powders	RE 19		41.5	42.7	43.9	45.1	45.7	<b>46.9</b>	
146 Hodgdon	H4831sc		40.4	41.9	43.4	44.9	<b>45.7</b>		
	<b>energy ft/lbs</b>		<b>1654</b>	<b>1774</b>	<b>1898</b>	<b>2027</b>	<b>2093</b>	<b>2228</b>	<b>2297</b>

## 6mm BR Norma

Fire arm	Universal						
	Barrel length& twist	24"/ 1-8"	stock#	1535	1537	7295	4100
Case/primer	Norma/ CCI BR4	desc.	90 gr. FMJB	95 gr. HPBT	95 gr. TMK M	90gr TGK	
		C.O.A.L	2.200	2.350	2.370	2.370	

			<b>2700</b>	<b>2800</b>	<b>2850</b>	<b>2875</b>	<b>2900</b>	<b>2925</b>	<b>2950</b>
79	Accurate Powders	LT-32	25.9	<b>27.2</b>					
84	Hodgdon	Benchmark	27.0	28.2	28.8	29.1	<b>29.4</b>		
89	Shooters World Prc	Tactical Rifle	27.8	29.0	29.6	29.9	<b>30.2</b>		
90	Alliant Powders	RE10x	25.3	26.5	27.1	<b>27.4</b>			
93	Alliant Powders	Power Pro Varr	27.5	29.0	29.7	30.1	30.4	30.8	<b>31.2</b>
95	IMR Powders	IMR 8208 XBR	27.5	28.7	29.3	29.6	<b>29.9</b>		
100	Accurate Powders	XMR 2495	28.2	29.4	29.9	<b>30.2</b>			
101	Ramshot Western	TAC	28.0	29.3	30.0	30.3	<b>30.6</b>		
102	Hodgdon	H335	27.4	28.7	<b>29.3</b>				
105	Hodgdon	H4895	27.5	28.6	29.2	29.4	<b>29.7</b>		
115	Accurate Powders	A 4064	28.7	29.8	30.4	30.7	31.0	<b>31.3</b>	
107	Hodgdon	Varget	28.8	30.0	30.5	30.8	<b>31.1</b>		
108	IMR Powders	IMR 4895	28.0	29.1	29.7	<b>30.0</b>			
116	Alliant Powders	RE 15	28.5	29.7	30.2	30.5	30.8	31.1	<b>31.4</b>
111	IMR Powders	IMR 4166 End.	27.6	28.7	<b>29.3</b>				
112	IMR Powders	IMR 4064	28.1	29.2	<b>29.7</b>				
		<b>energy ft/lbs</b>	<b>1538</b>	<b>1654</b>	<b>1713</b>	<b>1743</b>	<b>1774</b>	<b>1804</b>	<b>1835</b>



## 260 Remington

Fire arm	Universal					
Barrel length & twist	24"/ 1-7.5"		stock#	1728	7430	4330
Case/primer	hornady/ Win LR	desc.	130 gr. HPB	130 gr. TMK	130gr TGK	
		C.O.A.L	2.650	2.800	2.8	

			<b>2600</b>	<b>2700</b>	<b>2725</b>	<b>2750</b>	<b>2800</b>	<b>2850</b>
107	<b>Hodgdon</b>	Varget	35.6	<b>37.2</b>				
117	<b>Alliant Powders</b>	RE 16	38.3	40.0	40.5	40.9	<b>41.8</b>	
126	<b>Ramshot Western</b>	Big Game	37.9	39.7	40.1	<b>40.6</b>		
131	<b>Vihta vuori Powder</b>	N540	36.2	<b>37.9</b>				
132	<b>Alliant Powders</b>	RE 17	37.9	39.5	39.9	40.3	41.1	<b>41.9</b>
133	<b>IMR Powders</b>	IMR 4350	39.7	<b>41.5</b>				
134	<b>IMR Powders</b>	IMR 4451 E	39.6	41.4	41.8	<b>42.2</b>		
137	<b>Accurate Powders</b>	Xmr 4350	39.5	41.2	41.6	42.0	<b>42.9</b>	
138	<b>Hodgdon</b>	H4350	38.5	40.2	40.6	41.0	<b>41.9</b>	
139	<b>Hodgdon</b>	Hybrid 100	38.1	39.9	40.3	<b>40.7</b>		
144	<b>Alliant Powders</b>	RE 19	41.9	43.7	44.1	44.5	45.4	<b>46.3</b>
146	<b>Hodgdon</b>	H4831sc	41.9	43.7	44.1	44.6	<b>45.5</b>	
149	<b>IMR Powders</b>	IMR 4955 E	40.2	<b>41.7</b>				
150	<b>Vihta vuori Powder</b>	N560	43.0	44.8	45.3	45.7	<b>46.6</b>	
153	<b>Alliant Powders</b>	RE 22	41.7	43.3	43.7	44.1	44.9	<b>45.7</b>
<b>energy ft/lbs</b>			<b>1951</b>	<b>2104</b>	<b>2143</b>	<b>2183</b>	<b>2263</b>	<b>2344</b>

## 6.5 Grendel

Firearm Universal

Barrel leng: 24"/ 1-8"

Case/prime Hornady/ WSR

	1728	7430	4430
	130 gr. HPB	130 gr. TMK	130gr TGK
C.O.A.L	2.135	2.260	2.26

		<b>2100</b>	<b>2200</b>	<b>2250</b>	<b>2300</b>	<b>2350</b>	<b>2400</b>	<b>2450</b>
90	<b>Alliant Pow RE10x</b>	21.7	22.8	23.4	<b>24.0</b>			
93	<b>Alliant Pow Power Pro</b>	24.1	25.4	26.0	26.6	27.3	27.9	<b>28.5</b>
94	<b>Accurate P AA 2460</b>	24.2	25.5	26.1	26.7	<b>27.3</b>		
95	<b>IMR Powd IMR 8208 X</b>	23.7	24.8	25.3	25.9	<b>26.4</b>		
100	<b>Accurate P XMR 2495</b>	24.2	25.2	25.7	26.1	<b>26.6</b>		
101	<b>Ramshot MTAC</b>	23.8	24.9	25.5	26.1	26.7	<b>27.3</b>	
102	<b>Hodgdon H335</b>	24.0	25.2	25.9	<b>26.5</b>			
<b>energy ft/l</b>		<b>1273</b>	<b>1397</b>	<b>1461</b>	<b>1527</b>	<b>1594</b>	<b>1662</b>	<b>1732</b>

## 6.5 Creedmoor

Fire arm	Universal							
	Barrel length& twist	stock#	1728	7430	4330			
Case/primer	hornady/ Win LR	desc.	130 gr. HPB	130 gr. TMK	130gr TGK			
		C.O.A.L	2.670	2.810	2.8			
			2400	2500	2600	2700	2800	2900
1	Hodgdon	H4895	32.8	33.6	35.1	<b>36.7</b>		
2	IMR Powde	IMR 4895	32.8	34.2	35.7	<b>37.2</b>		
3	Hodgdon	Varget	33.1	34.6	36.1	<b>37.6</b>		
4	IMR Powde	IMR 4064	33.2	34.7	36.1	<b>37.6</b>		
5	Alliant Pow	RE 15	32.7	34.4	36.0	37.7	<b>39.3</b>	
6	Winchester	Win 760	37.9	39.3	40.7	42.1	43.5	<b>44.8</b>
7	Alliant Pow	RE 17	36.3	37.7	39.1	40.4	41.8	<b>43.2</b>
8	Alliant Pow	RE 16	36.4	38.0	39.6	41.2	42.8	<b>44.4</b>
8	IMR Powde	IMR 4451 E	37.4	39.0	40.6	42.1	<b>43.7</b>	
9	IMR Powde	IMR 4350	37.8	39.3	40.8	<b>42.4</b>		
10	Hodgdon	H4350	36.4	38.0	39.7	41.3	<b>42.9</b>	
11	Hodgdon	Hybrid 100	35.8	37.3	38.9	40.5	<b>42.0</b>	
12	Alliant Pow	RE 19	40.2	41.6	43.0	44.4	<b>45.8</b>	
Energy/ft.lf			<b>1662</b>	<b>1804</b>	<b>1951</b>	<b>2104</b>	<b>2263</b>	<b>2427</b>

## 7mm-08 Remington

Fire arm

Universal

Barrel length& twist	24"/ 1-9"	stock#	1930	4565
Case/primer	WIN/ WLR	desc.	168 gr. HPBT	165gr TGK
		C.O.A.L	2.800	2.8

			2200	2300	2400	2500	2600	2650	2700
105	Hodgdon	H4895	32.4	34.1	35.7	<b>37.4</b>			
107	Hodgdon	Varget	32.9	34.5	36.1	<b>37.7</b>			
111	IMR Powders	IMR 4166 E	32.5	34.1	35.7	<b>37.3</b>			
112	IMR Powders	IMR 4064	33.4	35.0	36.6	<b>38.1</b>			
116	Alliant Powders	RE 15	33.9	35.6	37.3	39.1	<b>40.8</b>		
117	Alliant Powders	RE 16	37.1	38.8	40.6	42.3	44.0	<b>44.9</b>	
118	Hodgdon	CFE 223	35.8	37.6	39.3	41.1	<b>42.8</b>		
122	Alliant Powders	Power Pro	36.4	38.1	39.7	41.4	43.1	<b>43.9</b>	
126	Ramshot Western	Big Game	35.3	37.1	38.9	40.7	42.6	<b>43.5</b>	
130	Winchester Powders	Win 760	37.7	39.2	40.8	42.3	<b>43.9</b>		
132	Alliant Powders	RE 17	36.4	38.0	39.5	41.1	42.6	43.4	<b>44.2</b>
133	IMR Powders	IMR 4350	37.5	39.2	40.9	42.6	<b>44.2</b>		
134	IMR Powders	IMR 4451 E	37.3	39.3	41.2	43.2	<b>45.1</b>		
138	Hodgdon	H4350	36.6	38.3	40.1	41.9	43.7	<b>44.6</b>	
142	Ramshot Western	Hunter	36.7	39.1	41.4	43.7	46.1	47.2	<b>48.4</b>
144	Alliant Powders	RE 19	40.6	42.2	43.9	45.5	47.1	47.9	<b>48.7</b>
<b>Energy ft/lbs</b>			<b>1805</b>	<b>1973</b>	<b>2148</b>	<b>2331</b>	<b>2521</b>	<b>2619</b>	<b>2719</b>

## 7mm Remington Magnum

Fire arm									
Universal									
Barrel length& twist	24"/ 1-10"	stock#	1930						
		Case/primer	Nosler/ WLRM	desc.	168 gr. HPBT				
		C.O.A.L	3.290						
			<b>2600</b>	<b>2700</b>	<b>2800</b>	<b>2900</b>	<b>2925</b>	<b>2950</b>	<b>2975</b>
138	<b>Hodgdon</b>	H4350	53.7	56.4	<b>59.0</b>				
144	<b>Alliant Powders</b>	RE 19				61.9	64.5	<b>65.2</b>	
146	<b>Hodgdon</b>	H4831sc	58.0	60.8	63.6	<b>66.4</b>			
149	<b>IMR Powders</b>	IMR 4955 E	56.8	59.2	<b>61.6</b>				
150	<b>Vihta vuori Powder:</b>	N560	59.9	62.5	65.1	<b>67.7</b>			
156	<b>IMR Powders</b>	IMR 7828s	59.2	61.8	64.3	66.8	<b>67.5</b>		
160	<b>Alliant Powders</b>	RE23	56.7	59.4	62.0	64.7	65.3	<b>66.0</b>	
161	<b>IMR Powders</b>	IMR 7977 E	63.3	65.6	68.0	70.4	71.0	<b>71.6</b>	
162	<b>Ramshot Western</b>	Magnum	64.9	67.3	69.6	72.0	72.5	73.1	<b>73.7</b>
163	<b>Hodgdon</b>	H1000	61.4	64.1	66.8	69.4	70.1	<b>70.8</b>	
164	<b>Alliant Powders</b>	RE 25	60.0	63.1	66.1	69.2	69.9	70.7	<b>71.5</b>
165	<b>Hodgdon</b>	Retumbo	62.7	65.3	68.0	70.6	71.3	<b>71.9</b>	
166	<b>Alliant Powders</b>	RE 26	59.8	62.4	65.0	67.7	68.3	<b>69.0</b>	
energy ft/lbs			<b>2521</b>	<b>2719</b>	<b>2924</b>	<b>3137</b>	<b>3191</b>	<b>3246</b>	<b>3301</b>

## 7mm RSAUM

Fire arm

Universal

Barrel length &  
twist

24"/ 1-10"

stock#

1930

4565

Case/primer

Norma/ WLRM

desc.

168 gr. HPBT

165gr. TGK

C.O.A.L

2.825

2.825

		<b>2500</b>	<b>2600</b>	<b>2800</b>	<b>2850</b>	<b>2900</b>	<b>2950</b>	<b>3000</b>
Alliant	RE 16	45.8	48.2	53.1	54.3	<b>55.5</b>		
Alliant	RE 23	49.4	51.8	56.7	57.9	<b>59.1</b>		
Alliant	RE 26	52.1	54.2	58.4	59.4	60.5	61.5	<b>62.6</b>
Hodgdon	H1000	54.1	56.4	61.2	62.4	63.6	<b>64.7</b>	
Hodgdon	H4350	45.7	48.1	53.0	<b>54.2</b>			
Hodgdon	H4831sc	51.4	53.9	58.9	60.2	<b>61.4</b>		
Hodgdon	Hybrid 100V	44.9	47.4	52.3	<b>53.5</b>			
IMR	IMR 4955 End.	48.4	50.6	<b>55.0</b>				
IMR	IMR 7828ssc	51.9	54.0	58.3	59.4	<b>60.4</b>		
IMR	IMR 7977 End.	54.9	56.9	60.9	62.0	<b>63.0</b>		
RAMSHOT	Magnum	57.4	59.8	64.5	65.7	66.9	<b>68.0</b>	
<b>Vihta vuori Powd</b>	N165	49.8	52.8	58.8	60.3	<b>61.8</b>		
Accurate	A4350	46.1	48.9	54.5	<b>55.9</b>			
<b>energy ft/lbs</b>		<b>2331</b>	<b>2521</b>	<b>2924</b>	<b>3029</b>	<b>3137</b>	<b>3246</b>	<b>3357</b>

## 270 Winchester

Fire arm	Universal	stock#	1835	1845	4440
Barrel length& twist	24"/ 1-10"	desc.	140 gr. HPB	140 gr. SBT	140gr. TGK
Case/primer	Winchester/ Win LR	C.O.A.L	3.200	3.265	3.3

		2700	2800	2900	2950	2975	3000
Alliant Powders	RE 16	47.2	49.3	51.4	52.4	53.0	<b>53.5</b>
Alliant Powders	RE 17	46.4	48.4	50.4	51.5	52.0	<b>52.5</b>
IMR Powders	IMR 4350	48.9	50.8	52.7	<b>53.6</b>		
IMR Powders	IMR 4451 End.	48.8	50.8	52.8	<b>53.8</b>		
Accurate Powders	XMR 4350	47.7	49.9	52.1	<b>53.2</b>		
Hodgdon	H4350	46.5	48.6	50.7	51.8	<b>52.3</b>	
Hodgdon	Hybrid 100V	46.5	48.6	50.8	<b>51.9</b>		
Ramshot Western	Hunter	49.3	51.6	53.8	54.9	<b>55.5</b>	
Hodgdon	H4831sc	52.4	54.8	57.1	58.3	<b>58.9</b>	
IMR Powders	IMR 4955 End.	49.6	51.7	<b>53.7</b>			
Vihta vuori Powde	N560	51.6	53.5	55.4	56.4	56.8	<b>57.3</b>
IMR Powders	IMR 7828ssc	52.4	54.3	56.2	57.2	<b>57.6</b>	
Alliant Powders	RE23	49.4	51.6	53.7	54.8	55.4	<b>55.9</b>
IMR Powders	IMR 7977 End.	55.7	57.6	59.4	60.3	<b>60.8</b>	
Hodgdon	H1000	54.4	56.6	58.7	59.8	60.3	<b>60.9</b>
<b>energy ft/lbs</b>		<b>2266</b>	<b>2437</b>	<b>2614</b>	<b>2705</b>	<b>2751</b>	<b>2797</b>

## 270 WSM

Fire arm	Universal	stock#	1835	1845	4440
Barrel length& twist	24"/ 1-10"	desc.	140 gr. HPBT	140 gr. SBT	140gr. TGK
Case/primer	Winchester/ Win LR	C.O.A.L	2.665	2.720	2.84

		2800	2900	3000	3100	3150	3200	3250
Alliant	RE 23	52.1	54.7	57.4	<b>60.0</b>			
Alliant	RE 26	53.0	55.9	58.8	61.6	63.0	<b>64.5</b>	
Hodgdon	H1000	52.5	56.1	59.7	<b>63.3</b>			
Hodgdon	H4831sc	50.9	54.3	57.7	<b>61.2</b>			
Hodgdon	Retumbo	56.9	59.7	62.6	65.4	<b>66.9</b>		
IMR	IMR 7828ssc	54.1	56.9	59.6	<b>62.3</b>			
IMR	IMR 7977 End.	59.2	61.8	64.4	67.0	<b>68.3</b>		
RAMSHOT	Magnum	62.1	64.7	67.4	70.0	71.4	<b>72.7</b>	
Vihta vuori Powde	N560	54.2	56.7	59.3	61.8	<b>63.1</b>		
Vihta vuori Powde	N570	60.2	62.6	65.0	67.5	68.7	69.9	<b>71.1</b>
<b>Energy Rounded</b>		<b>2437</b>	<b>2614</b>	<b>2797</b>	<b>2987</b>	<b>3084</b>	<b>3183</b>	<b>3283</b>