

FIRST EDITION

# RELOADING MANUAL

RIFLE & HANDGUN



FEDERAL  PREMIUM®

AMMUNITION



# SYNTECH



With an exclusive TSJ® polymer jacket that eliminates copper fouling and decreases heat and friction, Syntech® loads have redefined the range ammunition category. Handloaders can get the benefits of the same groundbreaking design in Syntech component bullets. The advanced range projectiles provide clean, accurate, consistent performance, as well as less splash-back on steel targets.

## 9MM LUGER 115 GRAIN



### SPECIFICATIONS

Diameter	0.355"
Part No.	AE9SJ1

### TEST COMPONENTS

OAL	1.120"
Brass	Fed
Barrel Length	4" SAAMI chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Alliant Sport Pistol™	100	3.8	1048	<b>4.3</b>	1130
Alliant Bullseye®	100	4.2	1114	<b>4.7</b>	1186
Alliant BE-86™	100	5.4	1160	<b>6.1</b>	1250
Alliant Unique®	100	4.6	1105	<b>5.2</b>	1200
Alliant Power Pistol®	100	5.9	1159	<b>6.8</b>	1263
Hodgdon Titegroup	100	3.7	1041	<b>4.3</b>	1155
Winchester 231	100	4.2	1057	<b>4.7</b>	1135
Hodgdon Universal	100	4.4	1100	<b>5.0</b>	1204
Accurate No. 2	100	4.0	1014	<b>4.6</b>	1092
Viht 3N37	100	5.8	1125	<b>6.4</b>	1208
Hodgdon HS-6	100	5.8	1088	<b>6.7</b>	1213
Accurate No. 5	100	6.0	1106	<b>6.7</b>	1202

# 40

## S&W 165 GRAIN



### SPECIFICATIONS

Diameter	0.400"
Part No.	AE40 SJ1

### TEST COMPONENTS

OAL	1.125"
Brass	Fed
Barrel Length	4" SAAMI chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Alliant Sport Pistol™	100	4.7	993	<b>5.2</b>	1038
Alliant Bullseye®	100	5.0	1012	<b>5.7</b>	1090
Alliant BE-86™	100	6.3	1062	<b>6.9</b>	1125
Alliant Unique®	100	5.5	1015	<b>6.2</b>	1070
Alliant Power Pistol®	100	6.8	1052	<b>7.6</b>	1123
Hodgdon Titegroup	100	4.5	971	<b>5.1</b>	1035
Winchester 231	100	5.2	981	<b>5.6</b>	1023
Hodgdon Universal	100	5.2	1005	<b>5.9</b>	1082
Accurate No. 2	100	4.9	949	<b>5.3</b>	986
Viht N340	100	5.5	992	<b>6.2</b>	1068
Hodgdon HS-6	100	6.9	1001	<b>7.7</b>	1087
Accurate No. 5	100	6.9	1004	<b>7.6</b>	1089



NOTES

# 45

## AUTO 230 GRAIN



### SPECIFICATIONS

Diameter	0.452"
Part No.	AE45SJ1

### TEST COMPONENTS

OAL	1.235"
Brass	Fed
Barrel Length	5" SAAMI chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Alliant Sport Pistol™	150	4.2	778	<b>5.2</b>	910
Alliant Bullseye®	150	4.0	767	<b>5.4</b>	949
Alliant BE-86™	150	5.2	803	<b>6.8</b>	987
Alliant Unique®	150	4.9	800	<b>5.9</b>	933
Alliant American Select®	150	4.2	765	<b>5.2</b>	889
Hodgdon Titegroup	150	4.0	779	<b>5.0</b>	901
Winchester 231	150	4.7	773	<b>5.7</b>	906
Hodgdon Universal	150	5.0	810	<b>6.0</b>	959
Accurate No. 2	150	4.0	750	<b>4.7</b>	832
Viht N320	150	4.4	783	<b>5.2</b>	892
Hodgdon HS-6	150	7.2	870	<b>8.2</b>	974
Ramshot Silhouette	150	6.4	859	<b>7.4</b>	986



NOTES



FEDERAL PREMIUM  
TROPHY BONDED TIP



Federal Premium® offers its famed Trophy Bonded® Tip as a component bullet. The proven design stands apart from all other big game bullets, combining bonded construction, a bone-crushing solid copper shank, boat-tail design and a high-performance tip made with the industry's most heat-resistant polymer to tighten groups at long range.

**270**  
WIN 130 GRAIN



SPECIFICATIONS	
Diameter	0.227"
Part No.	PB277TT130

TEST COMPONENTS	
OAL	3.270"
Brass	Fed
Barrel Length	24" SAAMI chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Alliant Reloder® 19	Fed 210	55.0	2914	<b>59.0C</b>	3138
IMR 4831	Fed 210	52.0	2918	<b>56.0C</b>	3115
Alliant Reloder® 17	Fed 210	50.0	2875	<b>54.0</b>	3101
Viht N560	Fed 210	55.0	2868	<b>59.0C</b>	3098
Ramshot Hunter	Fed 215	51.0	2900	<b>55.0</b>	3079
Hodgdon H4350	Fed 210	49.0	2878	<b>53.0</b>	3064
Winchester 760	Fed 215	48.0	2809	<b>52.0</b>	3024

*C = Compressed Load*

# 270

## WIN 140 GRAIN



SPECIFICATIONS	
Diameter	0.227"
Part No.	PB277TT140

TEST COMPONENTS	
OAL	3.260"
Brass	Win
Barrel Length	22"
Test Firearm	Ruger M77 Mkii

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Alliant Reloder® 22	CCI 200	52.5	2751	<b>56.5</b>	2949
IMR 7828	CCI 250	52.0	2777	<b>56.0</b>	2941
Alliant Reloder® 19	CCI 200	52.0	2750	<b>56.0</b>	2923
IMR 4831	CCI 200	49.5	2685	<b>53.5</b>	2900
Accurate 3100	CCI 200	52.0	2672	<b>56.0</b>	2897
IMR 4350	CCI 200	49.0	2695	<b>53.0</b>	2894
Hodgdon H4831SC	CCI 200	52.0	2672	<b>56.0</b>	2872



NOTES

# 270

## WSM 130 GRAIN



SPECIFICATIONS	
Diameter	0.227"
Part No.	PB277TT130

TEST COMPONENTS	
OAL	2.840"
Brass	Fed
Barrel Length	24" SAAMI Chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Alliant Reloder® 19	Fed 210	65.0	3062	<b>69.0</b>	3277
Viht N560	Fed 210	65.0	3035	<b>69.0</b>	3243
IMR 7828	Fed 210	64.0	3049	<b>68.0C</b>	3234
Alliant Reloder® 22	Fed 210	64.0	3001	<b>68.0</b>	3210
Accurate Magpro	Fed 215	70.0	3011	<b>74.0C</b>	3208
Hodgdon H4831SC	Fed 210	63.0	2993	<b>67.0</b>	3171
Ramshot Hunter	Fed 215	59.0	2946	<b>63.0</b>	3141

*C = Compressed Load*

# 270

## WSM 140 GRAIN



SPECIFICATIONS	
Diameter	0.227"
Part No.	PB277TT140

TEST COMPONENTS	
OAL	2.710"
Brass	Win
Barrel Length	24" SAAMI Chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Alliant Reloder® 25	CCI 200	65.0	3004	<b>69.0</b>	3179
Alliant Reloder® 22	CCI 200	61.0	2938	<b>65.0</b>	3122
IMR 7828	CCI 200	62.0	2937	<b>66.0</b>	3105
Alliant Reloder® 19	CCI 200	60.0	2895	<b>64.0</b>	3088
Hodgdon H4831SC	CCI 200	58.0	2847	<b>62.0</b>	3019

# 7MM

## REM MAG 140 GRAIN



SPECIFICATIONS	
Diameter	0.284"
Part No.	PB284TT140

TEST COMPONENTS	
OAL	3.280"
Brass	Rem
Barrel Length	24" SAAMI Chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Alliant Reloder® 25	CCI 250	67.5	3020	<b>71.5</b>	3173
IMR 7828	CCI 250	64.5	2957	<b>68.5</b>	3121
Accurate 3100	CCI 250	65.5	2998	<b>67.5</b>	3096
Alliant Reloder® 19	CCI 250	63.0	2977	<b>67.0</b>	3095
IMR 4831	CCI 250	60.5	2910	<b>64.5</b>	3093
Hodgdon H1000	CCI 250	69.0	2945	<b>73.0C</b>	3076
Alliant Reloder® 22	CCI 250	62.0	2962	<b>66.0</b>	3074
Hodgdon H4350	CCI 250	57.0	2891	<b>61.0</b>	3049
IMR 4350	CCI 250	59.0	2930	<b>61.0</b>	3034
Hodgdon H4831SC	CCI 250	62.0	2877	<b>66.0</b>	3024

C = Compressed Load



NOTES

# 7MM

## REM MAG 160 GRAIN



SPECIFICATIONS	
Diameter	0.284"
Part No.	PB284TT160

TEST COMPONENTS	
OAL	3.280"
Brass	Rem
Barrel Length	24" SAAMI Chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Alliant Reloder® 26	Fed 215	63.5	2805	<b>68.6C</b>	3064
Alliant Reloder® 25	CCI 250	65.0	2842	<b>69.0C</b>	2998
IMR 7828	CCI 250	61.0	2773	<b>65.0</b>	2914
Accurate 3100	CCI 250	61.0	2740	<b>65.0</b>	2909
Alliant Reloder® 19	CCI 250	59.9	2758	<b>63.5</b>	2898
Hodgdon H1000	CCI 250	65.0	2770	<b>69.0C</b>	2894
IMR 4831	CCI 250	57.0	2719	<b>61.0</b>	2877
Alliant Reloder® 22	CCI 250	58.5	2725	<b>62.5</b>	2865
Hodgdon H4831SC	CCI 250	58.5	2689	<b>62.5</b>	2833
IMR 4350	CCI 250	54.0	2620	<b>58.0</b>	2815
Hodgdon H4350	CCI 250	53.0	2675	<b>57.0</b>	2813

C = Compressed Load



NOTES

# 7MM

## WSM 140 GRAIN



SPECIFICATIONS	
Diameter	0.284"
Part No.	PB284TT140

TEST COMPONENTS	
OAL	2.800"
Brass	Win
Barrel Length	24" SAAMI Chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Alliant Reloder® 19	CCI 200	64.0	2984	<b>68.0</b>	3134
Alliant Reloder® 22	CCI 200	64.0	3002	<b>68.0</b>	3132
IMR 4831	CCI 200	61.0	2970	<b>65.0</b>	3120
IMR 4350	CCI 200	59.0	2981	<b>63.0</b>	3092
Accurate 3100	CCI 200	64.0	2903	<b>68.0</b>	3073
Hodgdon H4831SC	CCI 200	62.0	2949	<b>66.0</b>	3045
Hodgdon H4350	CCI 200	56.0	2860	<b>60.0</b>	3036



NOTES

# 7MM

## WSM 160 GRAIN



SPECIFICATIONS	
Diameter	0.284"
Part No.	PB284TT160

TEST COMPONENTS	
OAL	2.820"
Brass	Win
Barrel Length	24" SAAMI Chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Alliant Reloder® 19	Fed 210	64.0	2851	<b>68.0C</b>	3021
Viht N560	Fed 210	64.0	2850	<b>68.0</b>	3019
Alliant Reloder® 22	Fed 210	64.0	2824	<b>68.0C</b>	3002
IMR 4831	Fed 210	61.0	2821	<b>65.0C</b>	2998
IMR 4350	Fed 210	59.0	2791	<b>63.0C</b>	2972
Hodgdon H4350	Fed 210	57.0	2774	<b>61.0</b>	2918
Ramshot Hunter	Fed 215	55.0	2713	<b>59.0</b>	2885

C = Compressed Load



NOTES



# 7MM-08

## REM 160 GRAIN



### SPECIFICATIONS

Diameter	0.284"
Part No.	PB284TT160

### TEST COMPONENTS

OAL	2.765"
Brass	Fed
Barrel Length	24" SAAMI Chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Accurate 2700	Fed 215	42.0	2454	<b>46.0C</b>	2654
Ramshot Big Game	Fed 215	41.0	2409	<b>45.0C</b>	2629
Alliant Reloder® 17	Fed 210	41.0	2387	<b>45.0C</b>	2619
Hodgdon H380	Fed 215	40.0	2366	<b>44.0C</b>	2566
Alliant Reloder® 15	Fed 210	36.0	2305	<b>40.0</b>	2565
Viht N540	Fed 210	36.0	2277	<b>40.0</b>	2540

*C = Compressed Load*



NOTES



# 7MM

## MAUSER 140 GRAIN



SPECIFICATIONS	
Diameter	0.284"
Part No.	PB284TT140

TEST COMPONENTS	
OAL	2.800"
Brass	Rem
Barrel Length	22"
Test Firearm	Ruger M77

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Accurate 4350	CCI 200	46.0	2586	<b>50.0C</b>	2861
Hodgdon 4350	CCI 200	45.0	2595	<b>49.0C</b>	2843
Win 760	CCI 250	44.0	2523	<b>48.0</b>	2785
Hodgdon H414	CCI 250	43.0	2522	<b>47.0</b>	2760
IMR 4831	CCI 200	45.0	2454	<b>49.0C</b>	2731
IMR 4350	CCI 200	43.0	2449	<b>47.0C</b>	2719
Alliant Reloder® 19	CCI 200	45.0	2407	<b>49.0C</b>	2653

C = Compressed Load



NOTES

# 7MM

## MAUSER 160 GRAIN



SPECIFICATIONS	
Diameter	0.284"
Part No.	PB284TT160

TEST COMPONENTS	
OAL	2.970"
Brass	Rem
Barrel Length	22"
Test Firearm	Ruger M77

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Accurate 4350	CCI 200	42.0	2310	<b>46.0C</b>	2623
Win 760	CCI 250	41.0	2344	<b>45.0</b>	2593
Hodgdon H414	CCI 250	40.0	2342	<b>44.0</b>	2585
IMR 4831	CCI 200	43.0	2315	<b>47.0C</b>	2584
Hodgdon H4350	CCI 200	41.0	2354	<b>45.0C</b>	2580
IMR 4350	CCI 200	41.0	2299	<b>45.0C</b>	2570
Alliant Reloder® 22	CCI 200	46.0	2405	<b>48.0C</b>	2538
IMR 4064	CCI 200	36.0	2281	<b>40.0</b>	2527
Alliant Reloder® 19	CCI 200	43.0	2245	<b>47.0C</b>	2518

C = Compressed Load



NOTES

# 7MM

## STW 140 GRAIN



SPECIFICATIONS	
Diameter	0.284"
Part No.	PB284TT140

TEST COMPONENTS	
OAL	3.565"
Brass	Fed
Barrel Length	24" SAAMI Chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
IMR 7828	Fed 215	71.2	2969	<b>78.8</b>	3275
Alliant Reloder® 26	Fed 215	71.9	2896	<b>79.8</b>	3274
Alliant Reloder® 25	Fed 215	74.3	2940	<b>82.5</b>	3273
Accurate Magpro	Fed 215	74.8	2962	<b>82.9</b>	3270
Alliant Reloder® 19	Fed 215	70.4	2929	<b>78.1</b>	3266
Vihtavuori N560	Fed 215	71.2	2896	<b>78.9</b>	3250
Alliant Reloder® 23	Fed 215	68.8	2953	<b>76.1</b>	3248
Alliant Power Pro 4000MR	Fed 215	67.8	2944	<b>75.0</b>	3248
Alliant Reloder® 22	Fed 215	68.3	2914	<b>75.9</b>	3242
IMR 7977	Fed 215	74.3	2909	<b>82.2</b>	3232
Hodgdon H1000	Fed 215	73.4	2962	<b>81.4</b>	3231
Hodgdon H4831	Fed 215	70.1	2947	<b>77.6</b>	3197



NOTES

# 7MM

## STW 160 GRAIN



SPECIFICATIONS	
Diameter	0.284"
Part No.	PB284TT160

TEST COMPONENTS	
OAL	3.550"
Brass	Fed
Barrel Length	24" SAAMI Chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Alliant Reloder® 33	Fed 215	80.9	2812	<b>89.4C</b>	3121
Accurate Magpro	Fed 215	71.7	2835	<b>79.4</b>	3101
Alliant Reloder® 26	Fed 215	68.9	2760	<b>76.4</b>	3078
Hodgdon Retumbo	Fed 215	72.4	2755	<b>80.4</b>	3068
IMR 7828	Fed 215	66.4	2868	<b>73.0</b>	3065
Vihtavuori N560	Fed 215	68.0	2786	<b>75.1</b>	3054
Alliant Reloder® 25	Fed 215	70.3	2807	<b>77.5</b>	3051
IMR 7977	Fed 215	70.2	2860	<b>76.2</b>	3027
Alliant Reloder® 23	Fed 215	65.1	2839	<b>71.1</b>	3021
Hodgdon H1000	Fed 215	68.6	2867	<b>74.3</b>	3017
Alliant Reloder® 22	Fed 215	64.1	2745	<b>70.9</b>	3013

C = Compressed Load



NOTES

# 280

## REM 140 GRAIN



SPECIFICATIONS	
Diameter	0.284"
Part No.	PB284TT140

TEST COMPONENTS	
OAL	3.200"
Brass	Rem
Barrel Length	24"
Test Firearm	Ruger M77 MkII

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Hodgdon H4350	CCI 200	53.5	2880	<b>55.5</b>	2976
Alliant Reloder® 19	CCI 200	57.0	2852	<b>59.0C</b>	2962
IMR 4831	CCI 200	55.0	2838	<b>57.0C</b>	2954
Viht N160	CCI 200	55.0	2827	<b>57.0C</b>	2917
Accurate 3100	CCI 200	56.0	2753	<b>58.0C</b>	2875

C = Compressed Load



NOTES

# 280

## REM 160 GRAIN



SPECIFICATIONS	
Diameter	0.284"
Part No.	PB284TT160

TEST COMPONENTS	
OAL	3.260"
Brass	Rem
Barrel Length	24"
Test Firearm	Ruger M77 MkII

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
IMR 7828	CCI 200	56.0	2720	<b>58.0C</b>	2819
IMR 4831	CCI 200	53.0	2703	<b>55.0C</b>	2809
Alliant Reloder® 22	CCI 200	55.0	2712	<b>57.0C</b>	2808
Alliant Reloder® 19	CCI 200	54.0	2688	<b>56.0C</b>	2789
Accurate 4350	CCI 200	51.0	2680	<b>53.0</b>	2782
Hodgdon H4831SC	CCI 200	55.0	2672	<b>57.0C</b>	2758
Hodgdon H4350	CCI 200	50.0	2662	<b>52.0</b>	2757
IMR 4350	CCI 200	50.0	2631	<b>52.0</b>	2753

C = Compressed Load



NOTES

# 30-06

## SPRINGFIELD 165 GRAIN



SPECIFICATIONS	
Diameter	0.308"
Part No.	PB308TT165

TEST COMPONENTS	
OAL	3.180"
Brass	Fed
Barrel Length	24" SAAMI chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Alliant Reloder® 19	Fed 210	56.1	2689	<b>62.0C</b>	2951
Alliant Reloder® 16	Fed 210	51.8	2695	<b>57.0C</b>	2923
Alliant Power Pro™ 4000-MR	Fed 210	53.3	2667	<b>59.1C</b>	2905
Hodgdon H4350	Fed 210	52.1	2688	<b>57.5C</b>	2904
Alliant Reloder® 17	Fed 210	49.4	2628	<b>54.6C</b>	2890
Accurate 4350	Fed 210	54.2	2640	<b>58.2C</b>	2859
Winchester 760	Fed 210	48.2	2605	<b>53.4</b>	2855
Vihtavuori N550	Fed 210	47.6	2589	<b>52.7</b>	2838
IMR 4831	Fed 210	52.1	2543	<b>57.8C</b>	2789

C = Compressed Load



# 30-06

## SPRINGFIELD 180 GRAIN



SPECIFICATIONS	
Diameter	0.308"
Part No.	PB308TT180

TEST COMPONENTS	
OAL	3.320"
Brass	Win
Barrel Length	22"
Test Firearm	Remington 700

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
IMR 7828	CCI 200	58.0C	2627	<b>60.0C</b>	2729
Hodgdon H4350	CCI 200	52.0	2630	<b>54.0</b>	2707
Alliant Reloder® 22	CCI 200	56.0	2616	<b>58.0C</b>	2699
Hodgdon H4831SC	CCI 200	57.0	2606	<b>59.0C</b>	2689
IMR 4350	CCI 200	52.0	2568	<b>54.0</b>	2666
Winchester 760	CCI 250	51.0	2574	<b>53.0</b>	2658
Vihtavuori N540	CCI 200	46.0	2518	<b>48.0</b>	2615

C = Compressed Load



# 308

## WIN 165 GRAIN



SPECIFICATIONS	
Diameter	0.308"
Part No.	PB308TT165

TEST COMPONENTS	
OAL	2.700"
Brass	Fed
Barrel Length	24" SAAMI chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Alliant Power Pro™ 2000-MR	Fed 210	45.1	2654	<b>50.5C</b>	2906
Alliant Power Pro™ Varmint	Fed 210	40.2	2565	<b>44.7</b>	2793
Alliant Reloder® 15	Fed 210	40.9	2562	<b>45.0C</b>	2758
Alliant AR-Comp™	Fed 210	38.7	2545	<b>42.8C</b>	2737
Hodgdon Varget	Fed 210	39.8	2518	<b>44.0C</b>	2732
IMR 4064	Fed 210	39.3	2523	<b>43.5C</b>	2730
Vihtavuori N540	Fed 210	40.1	2465	<b>44.5</b>	2700
Ramshot TAC	Fed 210	38.0	2490	<b>42.1</b>	2686

C = Compressed Load



# 308

## WIN 180 GRAIN



SPECIFICATIONS	
Diameter	0.308"
Part No.	PB308TT180

TEST COMPONENTS	
OAL	2.800"
Brass	IMI
Barrel Length	22"
Test Firearm	Remington 700

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Vihtavuori N540	CCI 200	43.0	2521	<b>45.0C</b>	2655
Alliant Reloder® 15	CCI 200	42.0	2498	<b>44.0C</b>	2619
Winchester 748	CCI 250	42.0	2488	<b>44.0C</b>	2614
IMR 4064	CCI 200	41.0	2491	<b>43.0C</b>	2601
Hodgdon Varget	CCI 200	41.0	2464	<b>43.0C</b>	2574
Accurate 2460	CCI 250	38.0	2360	<b>40.0</b>	2470

C = Compressed Load



# 300

## WIN MAG 165 GRAIN



SPECIFICATIONS	
Diameter	0.308"
Part No.	PB308TT165

TEST COMPONENTS	
OAL	3.320"
Brass	Fed
Barrel Length	24" SAAMI chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Alliant Reloder® 26	Fed 215	70.4	2865	<b>77.9C</b>	3203
Alliant Power Pro™ 4000-MR	Fed 215	66.5	2887	<b>73.9C</b>	3164
IMR 7828	Fed 215	70.1	2846	<b>77.8C</b>	3140
Alliant Reloder® 19	Fed 215	66.9	2822	<b>74.5C</b>	3136
Alliant Reloder® 17	Fed 215	60.8	2921	<b>67.2</b>	3103
Alliant Reloder® 16	Fed 215	62.8	2835	<b>69.8C</b>	3102
Hodgdon H4831SC	Fed 215	66.7	2893	<b>73.9C</b>	3082
Vihtavuori N550	Fed 215	59.8	2813	<b>66.2</b>	3069
Hodgdon H4350	Fed 215	61.9	2890	<b>67.6</b>	3060
IMR 4831	Fed 215	66.8	2864	<b>71.8</b>	3033

C = Compressed Load



NOTES

# 300

## WIN MAG 180 GRAIN



SPECIFICATIONS	
Diameter	0.308"
Part No.	PB308TT180

TEST COMPONENTS	
OAL	3.320"
Brass	Fed
Barrel Length	24" SAAMI chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Alliant Reloder® 26	Fed 215	68.7	2830	<b>75.7C</b>	3100
Alliant Power Pro™ 4000-MR	Fed 215	64.3	2827	<b>71.2C</b>	3048
IMR 7828	Fed 215	68.0	2774	<b>74.8C</b>	3041
Vihtavuori N560	Fed 215	67.0	2775	<b>74.3C</b>	3029
Alliant Reloder® 22	Fed 215	64.8	2761	<b>71.6C</b>	3025
Alliant Reloder® 17	Fed 215	57.5	2798	<b>63.5</b>	2969
Hodgdon H4831SC	Fed 215	64.0	2795	<b>70.1C</b>	2963
Ramshot Hunter	Fed 215	61.4	2743	<b>67.9</b>	2952

C = Compressed Load



NOTES

# 300

## WSM 165 GRAIN



### SPECIFICATIONS

Diameter	0.308"
Part No.	PB308TT165

### TEST COMPONENTS

OAL	2.795"
Brass	Fed
Barrel Length	24" SAAMI chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Ramshot Hunter	Fed 215	65.5	2941	<b>72.7C</b>	3206
Alliant Reloder® 16	Fed 215	62.2	2925	<b>68.8C</b>	3181
Alliant Reloder® 19	Fed 215	66.7	2858	<b>74.0C</b>	3168
Accurate 2700	Fed 215	59.0	2809	<b>65.4</b>	3135
Hodgdon H4350	Fed 215	60.6	2899	<b>67.2C</b>	3122
Vihtavuori N550	Fed 215	56.8	2793	<b>63.1</b>	3117
Hodgdon H414	Fed 215	58.8	2815	<b>64.8</b>	3108
IMR 4451	Fed 215	60.9	2859	<b>67.7C</b>	3104
Alliant Reloder® 17	Fed 215	57.7	2826	<b>63.8</b>	3081
IMR 4350	Fed 215	59.0	2800	<b>65.3C</b>	3069

C = Compressed Load



NOTES

# 300

## WSM 180 GRAIN



### SPECIFICATIONS

Diameter	0.308"
Part No.	PB308TT180

### TEST COMPONENTS

OAL	2.825"
Brass	Fed
Barrel Length	24" SAAMI chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Alliant Reloder® 17	Fed 210	61.0	2843	<b>65.0</b>	3015
IMR 4350	Fed 210	64.0	2808	<b>68.0C</b>	3001
Hodgdon H4350	Fed 210	62.0	2837	<b>66.0C</b>	2984
Ramshot Hunter	Fed 215	63.0	2757	<b>67.0C</b>	2963
Accurate 2700	Fed 215	61.0	2772	<b>65.0</b>	2959
Hodgdon H414	Fed 215	59.0	2787	<b>63.0</b>	2952
Vihtavuori N550	Fed 210	59.0	2750	<b>63.0</b>	2951
Alliant Reloder® 19	Fed 210	66.0	2745	<b>70.0C</b>	2918

C = Compressed Load



NOTES



# 300

## H&H MAG 180 GRAIN



### SPECIFICATIONS

Diameter	0.308"
Part No.	PB308TT180

### TEST COMPONENTS

OAL	3.520"
Brass	Fed
Barrel Length	24" SAAMI chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Alliant Reloder® 22	Fed 215	68.0	2763	<b>72.6C</b>	2934
Vihtavuori N560	Fed 215	70.0	2836	<b>72.7</b>	2933
Accurate 3100	Fed 215	66.0	2783	<b>69.3</b>	2930
IMR 4350	Fed 215	62.0	2737	<b>67.1</b>	2902
Ramshot Hunter	Fed 215	61.0	2715	<b>64.9</b>	2868
Hodgdon H414	Fed 215	57.0	2674	<b>60.3</b>	2809
Winchester 760	Fed 215	57.0	2606	<b>60.6</b>	2781

C = Compressed Load



NOTES



# 300

## REM ULTRA MAG 165 GRAIN



SPECIFICATIONS	
Diameter	0.308"
Part No.	PB308TT165

TEST COMPONENTS	
OAL	3.560"
Brass	Fed
Barrel Length	24" SAAMI chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Alliant Reloder® 25	Fed 215	95.0	3234	<b>99.0</b>	3433
Ramshot Magnum	Fed 215	95.0	3277	<b>99.0</b>	3393
Alliant Reloder® 22	Fed 215	89.0	3237	<b>93.0</b>	3392
IMR 7828	Fed 215	89.0	3199	<b>93.0</b>	3365
Vihtavuori N560	Fed 215	90.0	3213	<b>94.0</b>	3348
Hodgdon Retumbo	Fed 215	97.0	3225	<b>101.0C</b>	3343
Accurate 3100	Fed 215	85.0	3178	<b>89.0</b>	3319

C = Compressed Load



NOTES

# 300

## REM ULTRA MAG 180 GRAIN



SPECIFICATIONS	
Diameter	0.308"
Part No.	PB308TT180

TEST COMPONENTS	
OAL	3.560"
Brass	Fed
Barrel Length	24" SAAMI chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Alliant Reloder® 25	Fed 215	91.0	3077	<b>95.0</b>	3244
Alliant Reloder® 22	Fed 215	86.0	3101	<b>90.0</b>	3237
Hodgdon Retumbo	Fed 215	95.0	3112	<b>99.0C</b>	3235
Ramshot Magnum	Fed 215	91.0	3099	<b>95.0</b>	3227
IMR 7828	Fed 215	86.0	3059	<b>90.0</b>	3220
Vihtavuori N560	Fed 215	87.0	3038	<b>91.0</b>	3209
Accurate 3100	Fed 215	83.0	3081	<b>87.0</b>	3192

C = Compressed Load



NOTES

# 300

## WBY MAG 165 GRAIN



SPECIFICATIONS	
Diameter	0.308"
Part No.	PB308TT165

TEST COMPONENTS	
OAL	3.500"
Brass	Fed
Barrel Length	24" SAAMI chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Accurate Magpro	Fed 215	82.9	3009	<b>91.9C</b>	3295
Alliant Reloder® 26	Fed 215	77.5	2885	<b>85.8C</b>	3286
Vihtavuori N560	Fed 215	77.5	2938	<b>85.8C</b>	3277
Alliant Reloder® 22	Fed 215	74.0	2892	<b>81.8</b>	3262
Alliant Reloder® 23	Fed 215	73.9	2917	<b>82.0C</b>	3256
IMR 7828	Fed 215	77.4	2908	<b>84.0C</b>	3217
Alliant Reloder® 25	Fed 215	81.3	2897	<b>87.0C</b>	3162
Hodgdon H1000	Fed 215	78.3	2784	<b>87.0C</b>	3110
IMR 7977	Fed 215	79.1	2828	<b>85.0C</b>	3084

C = Compressed Load



# 300

## WBY MAG 180 GRAIN



SPECIFICATIONS	
Diameter	0.308"
Part No.	PB308TT180

TEST COMPONENTS	
OAL	3.525"
Brass	Fed
Barrel Length	24" SAAMI chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Alliant Reloder® 25	Fed 215	83.0	2980	<b>88.1C</b>	3179
Alliant Reloder® 22	Fed 215	78.0	2909	<b>82.9</b>	3126
Hodgdon H1000	Fed 215	84.0	2942	<b>89.4C</b>	3097
Ramshot Magnum	Fed 215	83.0	2950	<b>90.2C</b>	3152
IMR 7828	Fed 215	78.0	2930	<b>82.2</b>	3107
Vihtavuori N560	Fed 215	80.0	2959	<b>83.6</b>	3125
Accurate MagPro	Fed 215	80.0	2834	<b>87.5C</b>	3099

C = Compressed Load





FEDERAL PREMIUM  
EDGE TLR™



Edge TLR expands reliably at velocities as low as 1,400 feet per second, yet it also retains most of its weight and penetrates deep on close targets. The match-accurate bullet's sleek profile offers some of the highest ballistic coefficients in its class for the flattest possible trajectories and higher downrange velocities.

# 30-06

## SPRINGFIELD 175 GRAIN



**SPECIFICATIONS**

Diameter	0.308"
Part No.	PB308ETLR1

**TEST COMPONENTS**

OAL	3.290"
Brass	Fed
Barrel Length	24" SAAMI chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Ramshot Hunter	Fed 210	53.8	2591	<b>59.8C</b>	2864
Alliant Reloder® 16	Fed 210	50.6C	2578	<b>56.0C</b>	2814
Alliant Power Pro™ 4000-MR	Fed 210	51.6	2570	<b>57.4C</b>	2808
Alliant Power Pro™ 2000-MR	Fed 210	46.7	2535	<b>51.8</b>	2796
Alliant Reloder® 17	Fed 210	47.9	2518	<b>53.0</b>	2772
Accurate 4350	Fed 210	50.5	2485	<b>56.0C</b>	2770
IMR 4350	Fed 210	48.2	2490	<b>53.6C</b>	2770
Hodgdon H4350	Fed 210	49.5	2549	<b>54.9C</b>	2767
Vihtavuori N550	Fed 210	46.2	2471	<b>51.3</b>	2733
IMR 4451	Fed 210	49.5	2444	<b>55.1C</b>	2726
Hodgdon H4831SC	Fed 210	53.1C	2495	<b>58.8C</b>	2724
Alliant Reloder® 19	Fed 210	52.3C	2437	<b>58.0C</b>	2712

*C = Compressed Load*

# 30-06

## SPRINGFIELD 200 GRAIN



### SPECIFICATIONS

Diameter	0.308"
Part No.	PB308ETLR2

### TEST COMPONENTS

OAL	3.290"
Brass	Fed
Barrel Length	24" SAAMI chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Hodgdon Superformance	Fed 210	50.9	2445	<b>56.4C</b>	2686
Ramshot Hunter	Fed 210	50.6	2412	<b>55.9C</b>	2649
Alliant Power Pro™ 4000-MR	Fed 210	49.2C	2413	<b>54.8C</b>	2635
Alliant Reloder® 16	Fed 210	47.3C	2395	<b>52.7C</b>	2627
Accurate 4350	Fed 210	48.3C	2371	<b>53.4C</b>	2594
Alliant Reloder® 26	Fed 210	51.8C	2333	<b>57.5C</b>	2588
Alliant Reloder® 17	Fed 210	44.7	2352	<b>49.7C</b>	2579
Hodgdon H4831SC	Fed 210	50.6C	2357	<b>56.1C</b>	2569
Vihtavuori N560	Fed 210	51.6C	2325	<b>57.0C</b>	2567
Alliant Reloder® 19	Fed 210	49.2C	2358	<b>54.5C</b>	2567
Hodgdon H4350	Fed 210	46.4	2365	<b>51.5C</b>	2565
IMR 4955	Fed 210	46.8	2277	<b>51.9C</b>	2464

C = Compressed Load



NOTES

# 308

## WIN 175 GRAIN



### SPECIFICATIONS

Diameter	0.308"
Part No.	PB308ETLR1

### TEST COMPONENTS

OAL	2.810"
Brass	Fed
Barrel Length	24" SAAMI chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Alliant Power Pro™ 2000-MR	Fed 210	43.8	2561	<b>48.7C</b>	2803
Accurate 2520	Fed 210	39.6	2445	<b>43.8C</b>	2706
Hodgdon CFE223	Fed 210	40.5	2437	<b>45.0C</b>	2688
Alliant Power Pro™ Varmint	Fed 210	38.3	2412	<b>42.7</b>	2675
Alliant Reloder® 15	Fed 210	38.5	2381	<b>42.9C</b>	2629
Ramshot Big Game	Fed 210	41.2C	2350	<b>45.8C</b>	2613
Hodgdon Varget	Fed 210	37.8	2388	<b>41.8C</b>	2607
Vihtavuori N540	Fed 210	39.0	2348	<b>43.2C</b>	2598
IMR 4064	Fed 210	37.6C	2375	<b>41.6C</b>	2593
Alliant AR-Comp™	Fed 210	35.9	2354	<b>40.0C</b>	2585
IMR 4166	Fed 210	34.8	2305	<b>38.7C</b>	2493

C = Compressed Load



NOTES

# 300

## WIN MAGNUM 175 GRAIN



SPECIFICATIONS	
Diameter	0.308"
Part No.	PB308ETLR1

TEST COMPONENTS	
OAL	3.500"
Brass	Fed
Barrel Length	24" SAAMI chamber
Test Firearm	Universal Receiver

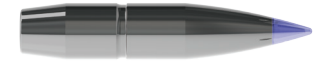
Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Alliant Reloder® 26	Fed 215	71.0	2770	<b>78.5C</b>	3113
Vihtavuori N560	Fed 215	71.2	2728	<b>78.8C</b>	3065
Alliant Power Pro™ 4000-MR	Fed 215	67.1	2755	<b>74.3C</b>	3057
Alliant Reloder® 19	Fed 215	70.5	2722	<b>78.0C</b>	3056
Alliant Reloder® 22	Fed 215	69.1	2713	<b>76.4C</b>	3052
Alliant Reloder® 16	Fed 215	64.7	2747	<b>71.7C</b>	3030
Accurate 4350	Fed 215	66.8	2679	<b>74.0C</b>	3014
Hodgdon H4831SC	Fed 215	72.0	2865	<b>76.5C</b>	3000
Alliant Reloder® 17	Fed 215	63.0	2835	<b>67.0</b>	2982
Ramshot Hunter	Fed 215	64.9	2746	<b>72.1</b>	2975
Alliant Reloder® 23	Fed 215	68.0	2700	<b>74.0C</b>	2961
IMR 4955	Fed 215	62.0	2675	<b>68.4</b>	2879
Hodgdon H1000	Fed 215	75.5C	2730	<b>78.5C</b>	2837

C = Compressed Load



# 300

## WIN MAGNUM 200 GRAIN



SPECIFICATIONS	
Diameter	0.308"
Part No.	PB308ETLR2

TEST COMPONENTS	
OAL	3.470"
Brass	Fed
Barrel Length	24" SAAMI chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Alliant Power Pro™ 4000-MR	Fed 215	63.2C	2522	<b>70.8C</b>	2849
Alliant Reloder® 26	Fed 215	67.7C	2544	<b>74.0C</b>	2849
Hodgdon H4831SC	Fed 215	65.0	2591	<b>72.2C</b>	2809
Alliant Reloder® 22	Fed 215	65.4C	2499	<b>72.0C</b>	2789
Ramshot Magnum	Fed 215	74.0C	2591	<b>79.0C</b>	2769
Vihtavuori N560	Fed 215	66.7	2441	<b>73.0C</b>	2750
Alliant Reloder® 23	Fed 215	67.0C	2553	<b>70.0C</b>	2701
Alliant Reloder® 19	Fed 215	67.8C	2550	<b>70.8C</b>	2692
IMR 7828	Fed 215	68.5C	2567	<b>71.5C</b>	2678
IMR 4955	Fed 215	57.4	2457	<b>63.8</b>	2647
Hodgdon H1000	Fed 215	69.0C	2518	<b>72.0C</b>	2620
Alliant Reloder® 25	Fed 215	71.5C	2488	<b>73.0C</b>	2585
Hodgdon Retumbo	Fed 215	70.5C	2396	<b>72.0C</b>	2490

C = Compressed Load



# 300

## WSM 175 GRAIN



SPECIFICATIONS	
Diameter	0.308"
Part No.	PB308ETLR1

TEST COMPONENTS	
OAL	2.850"
Brass	Fed
Barrel Length	24" SAAMI chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Alliant Power Pro™ 4000-MR	Fed 215	62.7C	2772	<b>70.0C</b>	3069
Ramshot Hunter	Fed 215	62.6	2740	<b>69.5C</b>	3045
Alliant Reloder® 17	Fed 215	57.6	2727	<b>63.8C</b>	3020
Alliant Reloder® 19	Fed 215	64.2C	2680	<b>71.0C</b>	3001
Hodgdon H4350	Fed 215	59.5C	2762	<b>66.0C</b>	2994
Hodgdon H414	Fed 215	58.7	2683	<b>65.0C</b>	2987
Vihtavuori N550	Fed 215	56.6	2685	<b>62.7C</b>	2980
Alliant Reloder® 16	Fed 215	58.8C	2703	<b>65.0C</b>	2965
IMR 4451	Fed 215	58.5C	2637	<b>66.0C</b>	2939
IMR 4831	Fed 215	59.4C	2554	<b>66.0C</b>	2830
Accurate 4350	Fed 215	61.0C	2659	<b>64.0C</b>	2796

C = Compressed Load



# 300

## WSM 200 GRAIN



SPECIFICATIONS	
Diameter	0.308"
Part No.	PB308ETLR2

TEST COMPONENTS	
OAL	2.850"
Brass	Fed
Barrel Length	24" SAAMI chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Alliant Reloder® 26	Fed 215	63.0C	2604	<b>69.5C</b>	2890
Alliant Reloder® 22	Fed 215	60.6C	2592	<b>67.0C</b>	2876
Alliant Power Pro™ 4000-MR	Fed 215	60.0C	2610	<b>66.3C</b>	2873
Vihtavuori N560	Fed 215	63.8C	2584	<b>70.6C</b>	2872
Ramshot Hunter	Fed 215	60.9	2580	<b>67.5C</b>	2844
Alliant Reloder® 16	Fed 215	57.5C	2589	<b>63.7C</b>	2837
Alliant Reloder® 19	Fed 215	62.0C	2602	<b>67.0C</b>	2826
Alliant Reloder® 17	Fed 215	54.5	2559	<b>60.4C</b>	2822
Hodgdon H414	Fed 215	56.1C	2519	<b>62.3C</b>	2778
Hodgdon H4350	Fed 215	56.1C	2572	<b>62.3C</b>	2778
IMR 4831	Fed 215	57.5C	2485	<b>63.7C</b>	2737
Hodgdon H1000	Fed 215	63.9C	2505	<b>69.9C</b>	2721
Accurate 4350	Fed 215	54.6C	2346	<b>60.2C</b>	2572

C = Compressed Load



# 300

## REM ULTRA MAG 175 GRAIN



### SPECIFICATIONS

Diameter	0.308"
Part No.	PB308ETLR1

### TEST COMPONENTS

OAL	3.750"
Brass	Fed
Barrel Length	24" SAAMI chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Alliant Reloder® 26	Fed 215	84.9	2859	<b>93.9</b>	3222
Ramshot Magnum	Fed 215	88.0	2905	<b>97.5</b>	3215
IMR 7828	Fed 215	83.4	2895	<b>92.4</b>	3211
Accurate Magpro	Fed 215	87.1	2827	<b>96.5</b>	3192
Vihtavuori N560	Fed 215	83.4	2824	<b>92.6</b>	3190
Alliant Reloder® 25	Fed 215	87.3	2847	<b>96.8</b>	3187
Alliant Reloder® 19	Fed 215	82.2	2887	<b>91.1</b>	3182
Hodgdon H1000	Fed 215	86.1	2917	<b>95.6</b>	3169
Alliant Reloder® 22	Fed 215	80.0	2852	<b>88.7</b>	3166
Alliant Reloder® 23	Fed 215	79.5	2878	<b>88.0</b>	3161
IMR 7977	Fed 215	86.9	2777	<b>96.1</b>	3158
Alliant Power Pro™ 4000-MR	Fed 215	76.8	2836	<b>85.6</b>	3154
IMR 4955	Fed 215	72.0	2773	<b>80.0</b>	3043



NOTES

# 300

## REM ULTRA MAG 200 GRAIN



### SPECIFICATIONS

Diameter	0.308"
Part No.	PB308ETLR2

### TEST COMPONENTS

OAL	3.700"
Brass	Fed
Barrel Length	24" SAAMI chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Hodgdon Retumbo	Fed 215	87.4	2715	<b>96.9C</b>	3050
IMR 7828	Fed 215	80.0	2786	<b>89.0C</b>	3025
Ramshot Magnum	Fed 215	85.1	2764	<b>94.2</b>	3022
Accurate Magpro	Fed 215	84.7	2727	<b>93.7</b>	3017
Vihtavuori N560	Fed 215	80.5	2701	<b>89.4C</b>	3004
Hodgdon H1000	Fed 215	83.4	2809	<b>92.4C</b>	2997
Alliant Reloder® 25	Fed 215	80.0	2757	<b>88.6</b>	2997
Alliant Reloder® 26	Fed 215	78.3	2691	<b>86.9</b>	2995
IMR 7977	Fed 215	84.2	2677	<b>93.2C</b>	2976
Alliant Reloder® 23	Fed 215	76.6	2739	<b>84.9</b>	2967
Alliant Reloder® 22	Fed 215	74.2	2728	<b>82.5</b>	2959
Alliant Reloder® 19	Fed 215	74.9	2745	<b>83.0</b>	2954
Alliant Power Pro™ 4000-MR	Fed 215	74.2	2692	<b>82.4</b>	2954
IMR 4955	Fed 215	69.4	2592	<b>77.0</b>	2844

C = Compressed Load



NOTES

# 300

## WBY MAG 175 GRAIN



SPECIFICATIONS	
Diameter	0.308"
Part No.	PB308ETLR1

TEST COMPONENTS	
OAL	3.560"
Brass	Fed
Barrel Length	24" SAAMI chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Alliant Reloder® 26	Fed 215	75.4	2773	<b>83.7C</b>	3199
IMR 7828	Fed 215	77.2	2819	<b>85.5C</b>	3162
Alliant Reloder® 19	Fed 215	75.2	2825	<b>83.2C</b>	3158
Vihtavuori N560	Fed 215	76.5	2794	<b>84.9C</b>	3149
Alliant Power Pro™ 4000-MR	Fed 215	72.1	2837	<b>80.0</b>	3144
Alliant Reloder® 23	Fed 215	74.8	2836	<b>83.1C</b>	3144
Alliant Reloder® 22	Fed 215	72.8	2779	<b>80.8</b>	3128
Alliant Reloder® 17	Fed 215	67.5	2767	<b>74.8</b>	3102
Alliant Reloder® 16	Fed 215	69.3	2786	<b>77.0</b>	3102
Hodgdon H4831SC	Fed 215	75.2	2784	<b>83.2C</b>	3093
Ramshot Hunter	Fed 215	72.3	2805	<b>80.2</b>	3086
Hodgdon H4350	Fed 215	69.8	2771	<b>77.4</b>	3080

C = Compressed Load



# 300

## WBY MAG 200 GRAIN



SPECIFICATIONS	
Diameter	0.308"
Part No.	PB308ETLR2

TEST COMPONENTS	
OAL	3.560"
Brass	Fed
Barrel Length	24" SAAMI chamber
Test Firearm	Universal Receiver

Propellant	Primer	START CHARGE		MAXIMUM CHARGE	
		Weight, grs	Muzzle Velocity, ft/sec	Weight, grs	Muzzle Velocity, ft/sec
Ramshot Magnum	Fed 215	80.7	2729	<b>89.2C</b>	3017
Alliant Reloder® 26	Fed 215	72.6	2689	<b>80.7C</b>	3012
IMR 7828	Fed 215	73.7	2649	<b>81.9C</b>	2972
Alliant Reloder® 25	Fed 215	76.1	2690	<b>84.5C</b>	2969
Alliant Reloder® 23	Fed 215	71.7	2700	<b>79.3C</b>	2963
Hodgdon H1000	Fed 215	77.4C	2641	<b>86.0C</b>	2951
Alliant Reloder® 19	Fed 215	71.4C	2657	<b>79.4C</b>	2945
Alliant Reloder® 22	Fed 215	69.7	2637	<b>77.4C</b>	2924
Alliant Power Pro™ 4000-MR	Fed 215	69.2	2658	<b>76.7C</b>	2923
Hodgdon H4831SC	Fed 215	71.4	2627	<b>79.1C</b>	2909
Alliant Reloder® 33	Fed 215	82.7C	2568	<b>91.7C</b>	2904
Vihtavuori N165	Fed 215	74.1C	2601	<b>82.1C</b>	2880

C = Compressed Load







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