

# 280 REMINGTON ACKLEY IMPROVED

## Test Specifications:

Firearm Used: Savage Model 116

Barrel Length: 26"

Twist: 1 x 9"

## Components:

Case: Federal

Trim-to Length: 2.515"

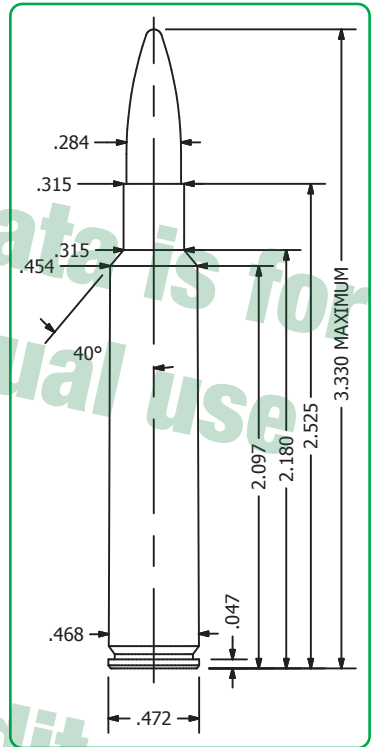
Primer: WLR

## Remarks:


Like the rest of the Ackley Improved family of cartridges, the 280 is formed by simply firing a factory round in the Improved chamber. This increases powder capacity in subsequent reloadings, which, in turn, creates the opportunity for better velocity and higher down range energy figures compared to the parent cartridge. In comparing a few such conversions, you will find that some deliver a surprisingly good return while others don't do quite as well. In yet others, they are little more than a waste of time. This has however changed somewhat with some of the new burn rates of powders that have come along. The factors that determine just how much "improvement" there is to an Improved case revolve around body taper and shoulder angle. By this criteria, the 280 Remington qualifies as a fair improvement.


The 30-06 case has been a favorite target for wildcatters, in large part because of the huge quantities of surplus G.I. brass available. It should come as no surprise that the first examples of the 7mm-06 Improved were in circulation before Remington ever standardized the 280 chambering. Prior to the introduction of the 7mm Rem. Magnum, this Improved case—in either guise, 7mm-06 or 280 Remington—did offer an improvement in ballistics that wasn't well filled by any existing factory cartridge. Newer developments, particularly the 7mm WSM and SAUM, have left this once vacant field somewhat crowded. But the 280 Ackley still has a very loyal following.

With a capacity increase of about five percent, the 280 Improved fills the performance gap between the 280 Remington (a very good cartridge in its own right) and the 7mm Remington Magnum. Whether this is enough to justify its existence is up to the individual shooter.








# 780 REMINGTON ACKLEY IMPROVED

Bullet Caliber Weight Type				C.O.A.L.				
 #1895 .284" 100gr. HP				3.200"				
Powder ∨	Velocity >	3000	3100	3200	3300	3400	3450	3500
IMR 4064		47.4	49.0	50.6	52.2	53.8		
A 2520		45.5	47.2	48.9	50.6			
RE 15			47.8	49.8	51.8	53.8	54.8	
760		53.3	54.9	56.5	58.1			
H414			52.2	54.3	56.4	58.5		
IMR 4350			56.6	57.9	59.2	60.5	61.1	61.8
IMR 4831		57.2	58.6	60.0	61.4	62.8	63.5	
Energy Ft. lbs		1998	2133	2273	2418	2566	2642	2720
Special Load	Powder	Grains		Velocity fps		Energy Ft. lb		
Accuracy Load	IMR 4064	52.2		3300		2418		
Hunting Load	RE 15	53.8		3400		2566		



Bullet Caliber Weight Type				C.O.A.L.				
 #1900 .284" 120gr. SPT				3.285"				
Powder ∨	Velocity >	2800	2900	3000	3100	3150	3200	
IMR 4064		43.5	45.8	48.1	50.4			
RE 15		43.4	45.6	47.8	50.0			
H380		47.0	49.3	51.6	53.9	55.0		
760				51.8	54.6	56.0	57.4	
H414				51.0	54.1	55.6		
A 4350		52.5	54.2	55.9	57.6	58.4		
IMR 4350		50.3	52.3	54.3	56.3	57.3		
RE 19			53.7	55.9	58.1	59.2	60.3	
IMR 4831		53.1	55.0	56.9	58.8			
Vihht N165			56.1	58.6	61.1	62.3	63.6	
Energy Ft. lbs		2089	2240	2398	2560	2643	2728	
Special Load	Powder	Grains		Velocity fps		Energy Ft. lb		
Accuracy Load	760	56.0		3150		2643		
Hunting Load	RE 19	60.3		3200		2728		

# 280 REMINGTON ACKLEY IMPROVED

Bullet Caliber Weight Type							C.O.A.L.
	#1903	.284"	130gr.	HPBT MatchKing			3.325"
	#7250	.284"	130gr.	SPT SSP			3.285"
Powder ∨	Velocity >	2700	2800	2900	3000	3100	3200
RE 15		42.5	44.5	46.5	48.5	50.5	
H380			46.8	49.2	51.6		
760		47.8	49.6	51.4	53.2	55.0	
IMR 4350		48.5	50.4	52.3	54.2	56.1	58.0
RE 19			51.9	54.0	56.1	58.2	
IMR 4831		50.6	52.5	54.4	56.3	58.2	60.1
A 3100		52.4	54.3	56.2	58.1	60.0	
Viht N165		51.6	54.2	56.8	59.4	62.0	
Energy Ft. lbs		2104	2263	2427	2597	2774	2955
Special Load	Powder		Grains		Velocity fps		Energy Ft. lb
Accuracy Load	IMR 4831		58.2		3100		2774
Hunting Load	IMR 4831		60.1		3200		2955




Bullet Caliber Weight Type					C.O.A.L.		
	#1905	.284"	140gr.	SBT	3.285"		
	#1910	.284"	140gr.	SPT	3.285"		
	#1912	.284"	140gr.	HPBT	3.285"		
Powder ∨	Velocity >	2700	2800	2900	3000	3050	3100
H380		46.1	48.8	51.5			
760		47.3	49.8	52.3			
A 4350		49.7	51.8	53.9	56.0		
IMR 4350		48.6	50.7	52.8	54.9	55.9	57.0
RE 19		49.0	51.5	54.0	56.5	57.7	59.0
IMR 4831		50.2	52.5	54.8	57.1	58.2	
A 3100		52.2	54.4	56.6	58.8	59.9	
Viht N165		49.8	53.1	56.4	59.7		
RE 22		49.9	52.3	54.7	57.1	58.3	59.5
Energy Ft. lbs		2266	2437	2614	2797	2891	2987
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb			
Accuracy Load	RE 19	51.5	2800	2437			
Hunting Load	IMR 4831	57.1	3000	2797			

# 280 REMINGTON ACKLEY Improved



Bullet		Caliber	Weight	Type	C.O.A.L.		
		#1913	.284"	150gr.	SBT	3.285"	
		#1915	.284"	150gr.	HPBT MatchKing	3.320"	
Powder	Velocity	2700	2800	2900	2950	3000	3050
H414		48.1	50.1	52.1	53.1		
A 4350		50.8	52.4	54.0			
IMR 4350		49.2	51.1	53.0	53.9	54.9	55.8
RE 19		50.6	52.9	55.2	56.3	57.5	
IMR 4831		51.4	53.3	55.2	56.1	57.1	58.0
MagPro		57.0	59.3	61.6	62.7	63.9	
Viht N165		53.4	56.4	59.4			
RE 22		52.0	54.1	56.2	57.2	58.3	
Magnum		57.6	59.9	62.2	63.3		
Energy Ft. lbs		2428	2611	2801	2898	2997	3098
Special Load	Powder	Grains		Velocity fps		Energy Ft. lb	
Accuracy Load	Viht N165	59.4		2900		2801	
Hunting Load	IMR 4831	57.1		3000		2997	

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# 280 REMINGTON ACKLEY IMPROVED

		Bullet	Caliber	Weight	Type	C.O.A.L.			
		#1920	.284"	160gr.	SBT	3.325"			
		#1925	.284"	160gr.	HPBT	3.285"			
		#7660	.284"	160gr.	TMK	3.330"			
Powder ▾	Velocity >	2500	2600	2700	2800	2850	2900	2950	
BigGame		42.7	44.9	47.1					
A 4350		48.0	49.7	51.4	53.1				
IMR 4350		46.4	48.2	50.0	51.8	52.7			
RE 19			49.4	51.4	53.4	54.4	55.4		
IMR 4831		48.3	50.1	51.9	53.7	54.6			
MagPro		53.2	55.4	57.6	59.8	60.9	62.0	62.9	
Viht N165		49.9	52.4	54.9	57.4				
RE 22			50.2	52.0	53.8	54.7	55.6		
IMR 7828			52.3	53.8	55.3	56.0	56.8		
Magnum		54.3	56.3	58.3	60.3				
<b>Energy Ft. lbs</b>		<b>2220</b>	<b>2401</b>	<b>2589</b>	<b>2785</b>	<b>2885</b>	<b>2987</b>	<b>3091</b>	
Special Load	Powder	Grains		Velocity fps		Energy Ft. lb			
<b>Accuracy Load</b>	IMR 4350	50.0		2700		2589			
<b>Hunting Load</b>	IMR 4831	53.7		2800		2785			

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Bullet Caliber Weight Type						C.O.A.L.
	#1930	.284"	168gr.	HPBT MatchKing		3.330"
	#4565	.284"	165gr.	TGK		3.330"
Powder ▾	Velocity >	2500	2600	2700	2800	2900
IMR 4350		46.6	48.6	50.6	52.6	
IMR 4831		48.3	50.4	52.5		
A 3100		49.9	51.9	53.9	55.9	
MagPro		51.7	54.4	57.1	59.8	62.5
Viht N165		50.8	53.2	55.6		
RE 22		48.8	50.7	52.6	54.5	56.4
IMR 7828			53.0	54.8	56.6	
Magnum		54.3	56.3	58.3	60.3	
RE 25		52.1	54.4	56.7	59.0	
Energy Ft. lbs		2331	2521	2719	2924	3137
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb		
Accuracy Load	RE 22	54.5	2800	2924		
Hunting Load	MagPro	62.5	2900	3137		
Sierra does not recommend MatchKing bullets for hunting applications.						

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Bullet Caliber Weight Type							C.O.A.L.
	#1940	.284"	175gr.	SBT	3.325"		
	#1975	.284"	175gr.	HPBT MatchKing	3.410"*		
*requires 1 x 8.5" twist or faster twist							
Powder ▾	Velocity >	2400	2500	2600	2700	2750	2800
IMR 4350			47.7	49.0	50.3	50.9	
IMR 4831			48.3	50.3	52.3	53.3	
A 3100			50.2	51.8	53.4		
MagPro		49.6	52.2	54.8	57.4	58.7	60.0
Viht N165		47.1	49.9	52.7	55.5		
RE 22		46.0	48.4	50.8	53.2	54.4	
H1000		49.9	52.5	55.1	57.7		
Magnum		52.7	55.0	57.3	59.6		
RE 25		49.3	51.6	53.9	56.2	57.3	58.5
Energy Ft. lbs		2238	2428	2626	2832	2938	3046
Special Load	Powder	Grains		Velocity fps		Energy Ft. lb	
Accuracy Load	IMR 4350	50.3		2700		2832	
Hunting Load	IMR 4350	50.9		2750		2938	

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