

# 6mm REMINGTON ACKLEY IMPROVED

## Test Specifications:

Firearm Used: Savage 12VSS

Barrel Length: 26"

Twist: 1 x 8"

## Components:

Case: Winchester

Trim-to Length: 2.220"

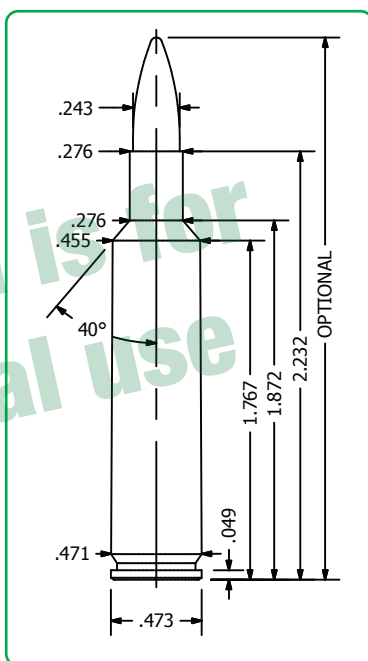
Primer: Remington 9 1/2

## Remarks:



This is another member of the family of "Improved" cartridges developed by noted experimenter, the late Parker O. Ackley. Based on the 6mm Remington, the Ackley version received the same treatment as the rest of his line. The shoulder has been blown out to 40 degrees, with body taper reduced from that of the parent case. While this modification seems fairly generic, other considerations must be taken into account—namely, the configuration of the original parent case. In the example of the 6mm Remington, the excessive body taper and gentle shoulder design provides substantial room for improvement. After fireforming, the improved case offers an increase of about 11 percent over the original design. This is a fairly substantial difference and provides a significant boost in velocity over the standard 6mm Remington.

Cases for any of the Ackley Improved family of cartridges are made by simply fireforming standard ammunition in the Improved chamber. This is best accomplished with new brass, (or factory ammunition) malleable enough to permit blowing the case out to its new dimensions with minimal chance of splitting or cracking. Once the cases have been formed, reloading is done in exactly the same manner as any other cartridge.

Given the increase in available case capacity over the standard 6mm Remington, the Ackley version offers a viable option to improve the ballistics of this case. Whether this is worth the cost of a rechambering job and another set of dies is strictly a judgment call for each reloader. In our opinion, of all the Improved cartridges, the 6mm Remington Ackley is one of the better ones.






# 6mm REMINGTON ACKLEY IMPROVED

		Bullet	Caliber	Weight	Type	C.O.A.L.			
		#1502	.243"	55gr.	BlitzKing	2.775"			
		#1500	.243"	60gr.	HP	2.750"			
Powder	Velocity	3400	3500	3600	3700	3800	3900	4000	
H335				41.1	42.1	43.1	44.1		
IMR 4895		40.0	41.3	42.5	43.8				
Varget		39.5	41.1	42.7	44.3	45.9			
A 4064			41.1	42.8	44.5	46.2	47.9		
BigGame						48.3	49.9		
RE 15			40.0	41.5	43.0	44.5	46.0		
760				45.6	48.3	51.0			
IMR 4350		46.4	47.5	48.7	49.8	50.9	52.1	53.2	
H4831 SC		48.0	49.8	51.7	53.5				
<b>Energy Ft. Lbs</b>		<b>1412</b>	<b>1496</b>	<b>1582</b>	<b>1672</b>	<b>1763</b>	<b>1857</b>	<b>1954</b>	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs					
Accuracy Load	Varget	44.3	3700	1672					
Hunting Load	RE 15	46.0	3900	1857					

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Bullet	Caliber	Weight	Type	C.O.A.L.
	#1507	.243"	70gr. BlitzKing	2.825"
	#1505	.243"	70gr. HPBT MatchKing	2.810"
	#1510	.243"	75gr. HP	2.810"




  

Powder	Velocity	3200	3300	3400	3500	3600
H335			36.5	38.8		
IMR 4895		38.3	39.6	40.9	42.2	43.5
Varget		39.0	40.3	41.7	43.0	44.3
A 4064			40.6	42.4	44.3	46.1
BigGame			42.0	44.0	46.0	
RE 15		38.0	39.6	41.2	42.8	44.4
760			44.4	46.3	48.1	50.0
IMR 4350			45.0	46.5	48.0	49.5
H4831 SC			47.2	49.4	51.5	
<b>Energy Ft. Lbs</b>		<b>1591</b>	<b>1692</b>	<b>1796</b>	<b>1904</b>	<b>2014</b>

Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs
<b>Accuracy Load</b>	IMR 4350	48.0	3500	1904
<b>Hunting Load</b>	IMR 4895	43.5	3600	2014

# 6mm REMINGTON ACKLEY IMPROVED

Bullet	Caliber	Weight	Type	C.O.A.L.
	#1515	.243"	80gr. SBT Blitz	2.825"
	#1520	.243"	85gr. SPT	2.825"
	#1530	.243"	85gr. HPBT	2.825"



  


Powder ▾	Velocity >	3000	3100	3200	3300	3400
IMR 4895		36.7	38.4	40.0	41.7	
Varget			36.8	38.6	40.3	
A 4064			37.8	40.8		
RE 15	35.5	37.5	39.5	41.5		
760		42.2	44.3	46.3		
IMR 4350		42.2	44.0	45.7	47.5	
RE 19		39.1	43.0	46.8		
IMR 4831		44.9	46.5	48.0	49.6	
H4831 SC			44.4	47.3	50.2	
<b>Energy Ft. Lbs</b>		<b>1598</b>	<b>1707</b>	<b>1819</b>	<b>1934</b>	<b>2053</b>

Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs
<b>Accuracy Load</b>	IMR 4831	49.6	3400	2053
<b>Hunting Load</b>	IMR 4350	47.5	3400	2053

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	Bullet	Caliber	Weight	Type	C.O.A.L.	
	#1540	.243"	100gr.	SPT	2.825"	
	#1560	.243"	100gr.	SBT	2.825"	
Powder	Velocity	3000	3050	3100	3150	3200
760		41.4	42.5	43.6		
IMR 4350		43.2	44.0	44.8		
RE 19		41.9	43.4	44.9	46.4	
IMR 4831		42.6	43.8	45.0	46.2	47.4
H4831 SC		43.8	44.8	45.8		
RE 22		44.1	45.1	46.1	47.1	
<b>Energy Ft. Lbs</b>		<b>1998</b>	<b>2065</b>	<b>2133</b>	<b>2203</b>	<b>2273</b>
Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs		
<b>Accuracy Load</b>	RE 22	46.1	3100	2133		
<b>Hunting Load</b>	RE 19	46.4	3150	2203		

	Bullet	Caliber	Weight	Type	C.O.A.L.	
	#1570	.243"	107gr.	HPBT MatchKing	3.060"*	
*requires a 1x8" or faster twist						
Powder	Velocity	2800	2900	3000	3100	3200
760		39.2	41.4	43.6		
IMR 4350			41.8	43.4	45.0	46.6
RE 19			42.3	44.3	46.3	48.3
IMR 4831			42.7	44.5	46.4	48.2
H4831 SC		42.0	44.0	45.9		
RE 22			43.2	45.1	47.0	48.9
<b>Energy Ft. Lbs</b>		<b>1862</b>	<b>1998</b>	<b>2138</b>	<b>2283</b>	<b>2432</b>
Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs		
<b>Accuracy Load</b>	RE 22	47.0	3100	2283		
<i>Sierra does not recommend MatchKing bullets for hunting applications.</i>						