V. RIFLE RELOADING DATA

6mm-284 Winchester

Test Specifications:

Firearm Used: Savage 12VSS

Barrel Length: 26"

Twist: 1 x 8"

Components:

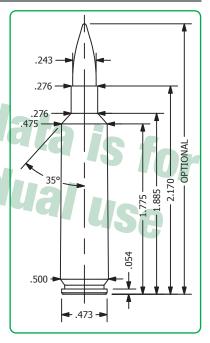
Case: Winchester (reformed)

Trim-to Length: 2.160"

Primer: Remington 9 1/2

Remarks:

The 6mm-284 is yet another of the progeny of the 284 Winchester case. While the 284 Winchester itself hasn't fared too well, it generated a flurry of wildcatting activity. Ironically, it has been the parent case of a number of wildcats that have surpassed the popularity of the original cartridge. The original idea behind the 284 was to provide a case with 30-06 capacity housed in a 308 length action. The



concept had some appeal, but ultimately the 284 was all but replaced by other 7mm cartridges. At any rate, the parent case has been necked up and down to fit a variety of applications.

From a capacity standpoint, the 6mm-284 meets its goal. The real question should be, was this a good idea? Certain tradeoffs must be made with any cartridge design. Everything comes down to a series of compromises. While velocity can be gained by adding more powder capacity, the amount of powder (within a given bore size) becomes increasingly greater with forever smaller returns in speed. This simple consideration, i.e., what the shooter wants versus what he's willing to give up is at the root of any cartridge selection. Those who favor the 6mm-284 are looking for speed to the exclusion of all other factors. Delivering an average of 100 fps more velocity than the 6mm Remington, it does so at a cost of a good bit more powder. In short, the 6mm-284 has reached the point of diminishing returns. The same can be said for its ballistic twins: the 6mm-06 and the 240 Weatherby Magnums.

For those willing to pay the costs associated with it, the 6mm-284 will deliver flat trajectories and a substantial punch on the receiving end. In a properly built rifle, it is also capable of excellent accuracy. The round has seen some use in competition, and had set a world 1,000 yard benchrest accuracy record with the Sierra 107 grain MatchKing. It has sufficient energy to make it an effective round for deer and antelope at extended ranges, though bullets must be chosen with care. Proper cleaning technique combined with a sensible approach to shooting (and not overheating) will go a long way toward getting the most life out of a barrel.



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6mm-284 Winches<u>ter</u>

	Bullet Calil	ber Wei	ght Ty	pe			C.O.A.L.
	#1502 .243	3" 55	gr. Bli	tzKing			2.775"
	#1500 .243	3" 60	gr. HP				2.735"
Powder 🗸 🛛 Velocit	xy > 3100	3200	3300	3400	3500	3600	3700
Varget	37.0	38.4	39.8	41.2	42.6	44.0	
IMR 4064	37.0	38.4	39.8	41.2	42.6	44.0	
Viht N150	36.8	38.4	40.0	41.6	43.2		
IMR 4350	42.2	43.8	45.5	47.1	48.7	50.4	52.0
H4350	41.9	43.6	45.3	47.0	48.7	50.4	
RE 19	45.4	47.0	48.6	50.2	51.8	53.4	55.0
IMR 4831	45.2	46.8	48.4	50.0	51.6	53.2	54.8
A 3100	47.6	49.0	50.4	51.8	53.2	54.6	56.0
H4831 SC	45.3	47.0	48.7	50.4	52.1	53.8	55.5
MagPro	48.5	50.3	52.1	53.9	55.7	57.5	59.3
RE 22	45.6	47.2	48.8	50.4	52.0	53.6	55.2
WXR	46.2	47.8	49.4	51.0	52.6	54.2	55.8
Energy Ft. Ibs	1173	1250	1330	1412	1496	1582	1672
Special Load	Powder	Grai	ins N	/elocity	fps l	Energy I	t. Ibs
Accuracy Load	Viht N150	41.6	3 73	8400		1412	
Hunting Load	H4831 SC	53.8	3 3	3600		1582	
						51	



During a May hunt in Texas' Hill Country, the author made an 11th-hour shot at 308 yards to put this young axis buck down quickly, using a Sharps Rifle Company .25-45 Sharps and 87 grain bullets.



6mm-284 WINCHESTER

	Bullet Cali	ber Wei	ight Ty	pe			C.O.A.L.
	#1505 .24	3" 70	gr. HP	PBT Mat	chKing		2.765"
	#1507 .24	3" 70	gr. Bli	tzKing			2.800"
	#1510 .24	3" 75	gr. HF				2.745"
Powder 🗸 🛛 Veloci	ty > 3000	3100	3200	3300	3400	3500	3600
Varget	35.3	36.9	38.5	40.1	41.7		
IMR 4064	35.8	37.4	39.0	40.6	42.2		
Viht N150	35.0	37.0	39.0	41.0	43.0		
IMR 4350	40.8	42.5	44.2	45.9	47.6	49.3	
H4350	39.4	41.3	43.2	45.1	47.0	48.9	
RE 19	43.1	44.8	46.5	48.2	49.9	51.6	
IMR 4831	42.5	44.2	45.9	47.6	49.3	51.0	52.7
A 3100	45.7	47.3	48.9	50.5	52.1	53.7	
H4831 SC	42.7	44.6	46.5	48.4	50.3	52.2	
MagPro	46.4	48.3	50.2	52.1	54.0	55.9	57.8
Viht N165	41.7	43.9	46.1	48.3	50.5	52.7	
RE 22	44.0	45.6	47.2	48.8	50.4	52.0	53.6
WXR	41.7	43.7	45.7	47.7	49.7	51.7	53.7
Magnum	49.7	51.5	53.3	55.1	56.9	58.7	
Energy Ft. Ibs	1399	1493	1591	1692	1796	1904	2014
Special Load	Powder	Gra	ins I	Velocity	fps E	Energy F	t. Ibs
Accuracy Load	IMR 4831	51.	0 3	3500	1	904	
Hunting Load	Viht N165	52.	7	3500	1	904	



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6mm-284 Winchester

	Bullet Cali	ber Weight	Туре			C.O.A.L.		
	#1515 .24	3" 80gr.	SBT Blitz			2.785"		
	#1520 .243" 85gr. SPT							
	#1530 .243" 85gr. HBPT							
Powder 🗸 🛛 Veloci	ty > 2900	3000 310	0 3200	3300	3350	3400		
Varget	33.9	35.6 37.	3 39.0	00				
IMR 4064	34.6	36.3 <mark>38</mark> .	0					
Viht N150	34.2	36.2 38.	2					
IMR 4350	35.7	38.0 40.	3 42.6	44.9				
H4350	34.8	37.3 39.	8 42.3	44.8				
RE 19	39.2	41.5 43.	8 46.1	48.4				
IMR 4831	39.4	41.4 43.	4 45.4	47.4	48.4			
A 3100	43.8	45.6 47.	4 49.2	51.0				
H4831 SC	41.5	43.4 45.	3 47.2	49.1	50.1	51.0		
MagPro	45.7	47.9 50.	1 52.3	54.5	55.6	56.7		
Viht N165		42.6 45.	1 47.5	50.0				
RE 22	42.0	43.9 45.	8 47.7	49.6	50.6	51.5		
WXR	41.2	43.2 45.	2 47.2	49.2	50.2	51.2		
Magnum	47.5	49.5 51.	5 53.5	55.5	56.5	57.5		
Energy Ft. Ibs	1494	1598 170	07 1819	1934	1993	2053		
Special Load	Powder	Grains	Velocit	y fps E	inergy l	t. Ibs		
Accuracy Load	RE 22	49.6	3300	1	934			
Hunting Load	H4831 SC	51.0	3400	2	2053			
	70-							



6mm-284 Winchester

	Bullet Cali	ber We	ight Ty	pe			C.O.A.L.
	#1540 .24	3" 10	Ogr. SP	T			2.785"
	#1560 .24	3" 10	Ogr. SB	T			2.785"
Powder 🗸 🛛 Velocit	y > 2700	2800	2900	3000	3100	3150	3200
Varget 📃	31.8	33.8	35.8	37.8			
IMR 4064	-33.0	34.8	36.6	38.4	10		
Viht N150	32.5	34.6	36.7	38.8			
IMR 4350	34.5	36.5	38.5	40.5	42.5	43.5	
H4350	33.7	35.9	38.1	40.3	42.5		
RE 19	35.9	37.9	39.9	41.9	43.9	44.9	
IMR 4831	34.9	37.1	39.3	41.5	43.7	44.8	
A 3100	-38.5	40.6	42.7	44.8	46.9	48.0	
H4831 SC	36.8	38.9	41.0	43.1	45.2	46.3	47.3
MagPro	39.7	42.2	44.7	47.2	49.7	51.0	
Viht N165	35.5	38.1	40.7	43.3	45.9	47.2	
RE 22	36.3	38.6	40.9	43.2	45.5	46.7	47.8
WXR	36.5	39.0	41.5	44.0	46.5	47.8	49.0
Magnum	43.0	45.1	47.2	49.3	51.4	52.5	53.5
Energy Ft. Ibs	1618	1741	1867	1998	2133	2203	2273
			0 I I				
Special Load	Powder	Gra	ins (Velocity	fps E	Energy F	t. Ibs
Accuracy Load	H4350	40.	3 3	3000	1	998	
Hunting Load	WXR	47.	8	3150	2	2203	



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6mm-284 Winchester

	Bullet Cali	ber We	iaht Tv	ne			C.O.A.L.		
			.9	P 0					
	#1570 .24	3" 10	7gr. HF	PBT Mat	chKing		2.925"*		
*requires a 1x8" or faster twist									
Develops y Volos		0000	2000	0100	2000	2050			
	ity > 2800	2900	3000	3100	3200	3250			
Varget	36.2	38.0	39.8						
IMR 4064	36.4	38.2	40.0						
Viht N150	37.0	39.0	41.0						
IMR 4350	41.7	43.4	45.1	46.8	48.5	49.3			
H4350	40.8	42.6	44.4	46.2	48.0				
RE 19	41.3	43.3	45.3	47.3	49.3	50.3			
IMR 4831	42.6	44.2	45.8	47.4	49.0				
A 3100	44.5	46.2	47.9	49.6					
H4831 SC	43.2	44.9	46.6	48.3	50.0				
MagPro	46.8	48.6	50.4	52.2	54.0				
Viht N165	43.5	45.4	47.3	49.2					
RE 22	40.7	43.0	45.3	47.6	49.9	51.1			
WXR	43.2	45.0	46.8	48.6	50.4				
Magnum	48.4	50.2	52.0	53.8	55.6				
Energy Ft. Ibs	1862	1998	2138	2283	2432	2509			
Special Load	Powder	Gra	ins	Velocity	fps	Energy	Ft. Ibs		
Accuracy Load	IMR 4064	40.	0	3000		2138			
Sierra does not recommend MatchKing bullets for hunting applications.									
redistributor									

