

7mm SHOOTING TIMES WESTERNER

Test Specifications:

Firearm Used: Universal

Barrel Length: 24"

Twist: 1- 9"

Components:

Case: Nosler

Trim-to Length: 2.840"

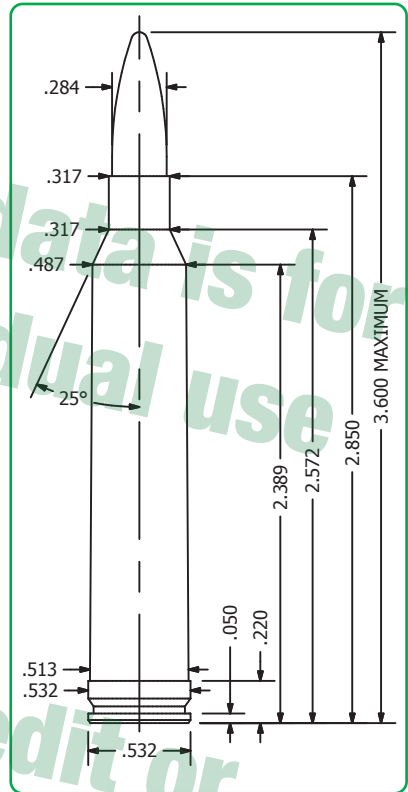
Primer: WLRM

Remarks:


Few wildcat cartridges have found the immediate acceptance of the shooting public as rapidly as the 7mm Shooting Times Westerner. Developed by noted gun writer Layne Simpson, the 7mm STW was conceived as a potent, long range cartridge for western big game hunting. Providing an average of 150-200 feet per second more velocity than either the Remington or Weatherby 7mm Magnums, it gives the extra punch necessary for open country hunting. For big game species that are frequently taken at long range, a hunter would be hard pressed to make a better cartridge choice than the 7mm STW.




The cartridge itself is little more than the 8mm Remington Magnum necked down to accept .284" bullets. With the introduction of some really slow burning powders, the viability of an "over bore" cartridge like the STW is greatly increased. The older 7mm-300 Weatherby, a cartridge almost identical in case capacity and performance, never drew much public attention due to the limited selection of slowburning powders available then.

In developing this data, we were extremely impressed with the cartridge's uniformity and predictable ballistics. Loading for the STW is straight forward, giving little difficulty in case forming or load development. As one would expect, this cartridge is at its best when loaded at or near top velocities. This cartridge will give outstanding velocity potential with the latest MatchKings 180, 183, and 197 grains. The 165 grain GameChanger bullet makes this cartridge even better for large game animals such as elk, moose, and African plains game.





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Bullet		Caliber	Weight	Type	C.O.A.L.				
	#1903	.284"	130gr.	HPBT Match	3.580"				
Powder	Velocity	2850	2950	3050	3150	3250	3350	3400	
H4831sc		67.1	69.5	71.9	74.4	76.9	79.4		
RE 22			70.2	72.6	74.7	76.7	78.4	79.3	
H1000			74.9	77.7	80.3	82.6	84.5		
Energy Ft. Lbs		2344	2512	2685	2864	3048	3239	3336	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb					
Accuracy Load	RE 22	79.3	3400	3336					
<i>Sierra does not recommend MatchKing bullets for hunting applications.</i>									

Bullet		Caliber	Weight	Type	C.O.A.L.				
	#1905	.284"	140gr.	SBT	3.600"				
	#1910	.284"	140gr.	SPT	3.600"				
	#1912	.284"	140gr.	HPBT	3.600"				
Powder	Velocity	2700	2800	2900	3000	3100	3200	3300	
H4831sc					71.2	74.2	77.0	79.6	
IMR 4955 End.		62.1	64.0	66.2	68.6	71.1			
RE 22				71.0	73.9	76.4	78.4		
N560		68.8	71.2	73.5	75.6	77.6	79.5		
N165			71.5	75.2	78.0	80.0			
RE 23			67.6	70.2	72.6	74.8	76.9		
IMR 7828ssc			70.2	72.9	75.4	77.7	79.6		
IMR 7977 End.		71.1	73.9	76.4	78.8	80.8			
H1000			74.1	76.7	79.1	81.4	83.5		
RE 26			71.5	74.0	76.3	78.4	80.4		
Magnum	72.2		72.5	73.9	76.1	79.2			
Retumbo		73.6	75.8	77.8	79.8	81.8	83.8		
RE 33	79.8	81.9	83.9	85.9	87.8	89.6	91.4		
IMR 8133	75.0	77.2	79.2	81.2	83.1	84.9	86.7		
Energy Ft. Lbs		2266	2437	2614	2797	2987	3183	3385	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb					
Accuracy Load	IMR 7977 End.	80.8	3200	3183					
Hunting Load	H4831sc	79.6	3300	3385					



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Bullet		Caliber	Weight	Type	C.O.A.L.			
	#1913	.284"	150gr.	SBT	3.600"			
	#1915	.284"	150gr.	HPBT Match	3.600"			
Powder ▾	Velocity >	2650	2750	2850	2950	3050	3150	3200
H4831sc					71.1	74.1	76.6	77.7
IMR 4955 End.		61.3	64.1	66.7	69.2			
RE 22					69.1	72.8	75.4	76.4
N560				70.2	72.8	75.3	77.4	78.4
N165				71.2	75.5	78.1		
RE 23				66.2	69.3	71.9	74.2	75.2
IMR 7828ssc				68.3	71.5	74.2	76.6	77.6
IMR 7977 End.		70.8	74.0	76.6	78.8	80.6		
H1000					74.0	76.4	78.8	80.0
RE 26		67.0	70.2	73.1	75.6	77.8	78.8	78.8
Magnum				73.2	76.2	79.1	81.6	
Retumbo					75.7	78.4	80.7	81.7
RE 33			78.8	81.4	83.8	86.2	88.4	89.5
IMR 8133		71.5	74.8	77.7	80.3	82.5	84.4	85.2
Energy Ft. Lbs		2339	2518	2705	2898	3098	3304	3410
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb				
Accuracy Load	RE 23	75.2	3200	3410				
Hunting Load	H4831sc	77.7	3200	3410				
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	Bullet	Caliber	Weight	Type	C.O.A.L.			
	#1920	.284"	160gr.	SBT				3.600"
	#1925	.284"	160gr.	HPBT				3.600"
	#7660	.284"	160gr.	TMK Match				3.730"
Powder	Velocity	2700	2800	2900	2950	3000	3050	3100
H4831sc				68.7	70.3	71.9	73.4	
IMR 4955 End.	60.6	62.5	65.0	66.6	68.3			
RE 22			67.1	68.6	70.1	71.6	73.2	
N560		68.1	70.9	72.2	73.6	74.9	76.2	
N165		68.7	72.2	73.8	75.5	77.1		
RE 23		64.6	67.6	69.1	70.5	71.9	73.3	
IMR 7828ssc		66.9	69.8	71.2	72.6	74.0		
IMR 7977 End.	67.9	71.7	74.9	76.2	77.3	78.3		
H1000			72.9	74.4	75.9	77.4	78.8	
RE 26		67.4	70.3	71.8	73.2	74.6	75.9	
Magnum		70.7	75.0	76.7	78.3	79.7		
Retumbo		70.3	73.4	74.8	76.2	77.6	78.9	
RE 33		77.5	81.0	82.6	84.1	85.5	86.7	
IMR 8133	71.2	74.5	77.4	78.8	80.0	81.2	82.3	
Energy Ft. Lbs	2589	2785	2987	3091	3197	3304	3414	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb				
Accuracy Load	IMR 4955 End.	68.3	3000	3197				
Hunting Load	RE 22	73.2	3100	3414				
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		Bullet	Caliber	Weight	Type	C.O.A.L.			
		#4565	.284"	165gr.	TGK	3.600"			
		#1930	.284"	168gr.	HPBT Match	3.625"			
Powder ▾	Velocity >	2650	2750	2850	2950	3000	3050	3100	
H4831sc				68.1	71.4	72.9	74.3		
IMR 4955 End.	59.8	62.4	65.1	67.9					
RE 22				64.1	67.4	69.5			
N165			63.1	67.3					
RE 23			63.1	66.0	69.0	70.5			
IMR 7828ssc			65.1	68.0	71.0	72.6			
IMR 7977 End.			70.7	72.8	75.0	76.2			
H1000				71.2	74.4	76.0	77.5		
RE 26			66.4	68.8	71.7	73.3	75.0		
Magnum				73.9	77.2	78.6			
Retumbo				74.0	76.5	77.8	79.1	80.4	
RE 33					82.8	84.9	86.3		
IMR 8133				71.8	76.0	78.2			
Energy Ft. Lbs		2572	2770	2975	3188	3297	3408	3520	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb					
Accuracy Load	RE 23	70.5	3000	3297					
Hunting Load	Retumbo	80.4	3100	3520					
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Bullet	Caliber	Weight	Type	C.O.A.L.
	#1940	.284"	175gr. SBT	3.600"
	#1975	.284"	175gr. HPBT Match	3.600"*
*requires 1 x 8.5" twist or faster twist				

Powder	Velocity	2600	2700	2800	2850	2900	2950	3000
H4831sc				66.8	68.5	70.2	72.0	
IMR 4955 End.	59.8	62.2	64.8	66.2				
RE 22	61.9	64.7	66.3	68.0	70.0			
N560		68.6	70.2	71.8	73.2	74.5		
N165		69.2	71.5	73.4				
RE 23		65.8	67.3	68.7	70.3	71.8		
IMR 7828ssc	64.7	67.5	69.0	70.4				
IMR 7977 End.	70.4	73.3	74.6	75.8	77.0			
H1000		70.4	71.9	73.5	75.0	76.4		
RE 26	64.4	67.1	68.7	70.3	72.0	73.8		
Magnum	70.1	73.9	75.5	77.0	78.4	79.7		
Retumbo		71.6	73.3	74.9	76.3	77.6		
RE 33		76.0	78.0	79.9	81.7	83.5		
IMR 8133		73.7	75.3	76.8	78.3	79.7		
US869		85.2	86.7	88.3	89.8	91.4		
Energy Ft. Lbs	2626	2832	3046	3156	3267	3381	3497	

Special Load	Powder	Grains	Velocity fps	Energy Ft. lb
Accuracy Load	RE 22	70.0	2950	3381
Hunting Load	N560	74.5	3000	3497

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Bullet	Caliber	Weight	Type	C.O.A.L.
	#1980	.284"	180gr. HPBT Match	3.750"*
	#1983	.284"	183gr. HPBT Match	3.775"*

*requires 1 x 8" twist or faster twist

Powder	Velocity	2550	2650	2750	2850	2900	2950	3000
H4831sc			63.8	66.9	70.0	71.6		
IMR 4955 End.	59.5	61.8	64.5	67.5				
RE 22		61.1	64.0	66.9				
N560		66.2	68.9	71.6	72.8	74.0		
N165		67.5	70.7	73.6				
RE 23		62.0	65.0	68.2	69.9			
IMR 7828ssc		65.4	68.1	70.9	72.4			
IMR 7977 End.		69.7	72.9	75.6	76.7			
H1000				68.6	71.1			
RE 26		63.0	65.8	69.1	71.0			
Magnum		70.4	73.5	76.3	77.6			
Retumbo		66.8	69.8	72.9	74.5	76.2		
RE 33				78.2	80.5	82.5	84.1	
IMR 8133	69.7	72.8	75.7	78.3	79.6	80.7		
US869		80.5	84.2	87.4	88.9	90.3	91.6	
Energy Ft. Lbs		2598	2806	3022	3246	3361	3478	3597
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb				
Accuracy Load	RE 26	71.0	2900	3361				

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Bullet		Caliber	Weight	Type	C.O.A.L.				
	#1997	.284"	197gr.	HPBT Match	3.800"*				
*requires 1 x 7.5" twist or faster twist									
Powder	Velocity	2550	2650	2700	2750	2800	2850	2900	
IMR 7828ssc		63.7	66.5	67.8	69.1	70.3			
H1000			68.2	69.6	71.1	72.6			
RE 26		64.9	67.9	69.3	70.7	72.0			
Magnum			70.9	72.6	74.3	76.0			
Retumbo		67.4	70.9	72.3	73.5	74.4			
RE 33			76.3	77.6	79.0	80.4	81.8		
IMR 8133			73.4	74.8	76.1	77.3			
US869			81.7	83.1	84.4	85.8	87.1	88.3	
Energy Ft. Lbs		2844	3071	3188	3307	3429	3552	3678	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb					
Accuracy Load	IMR 7828ssc	70.3	2800	3429					
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