



\*A 1:9" or faster twist is recommended for the 175-grain TSX.

\*SAAMI specifies a maximum overall length (COAL) for this cartridge at 2.800"; Barnes load data was developed at this COAL. This cartridge may be loaded to a slightly longer length if your rifle's magazine and throat are long enough to accommodate the extra length.

\*If loading to 2.800" COAL, lightly crimp case mouth so it contacts the bullet ogive.

◆ Indicates most accurate load

**.284 Winchester**

<b>Bullet Weight:</b> 120 gr	<b>Case Trim Length:</b> 2.160"	<b>S.D.</b>	0.213
<b>Bullet Style:</b> TSX BT	<b>Primer:</b> Fed GM210M	<b>B.C.</b>	0.349
<b>COAL:</b> 2.800"	<b>Barrel Length:</b> 24"		
<b>Case:</b> W-W	<b>Twist Rate:</b> 1:10"		

Powder	Minimum		Maximum		
	Charge (grains)	Velocity (fps)	Charge (grains)	Velocity (fps)	Load Density (%)
Big Game	52.5	2942	57.0	3157	100
◆ H414	53.0	2961	57.0	3165	94

<b>Bullet Weight:</b> 140 gr	<b>Case Trim Length:</b> 2.160"	<b>S.D.</b>	0.248
<b>Bullet Style:</b> Banded Spitzer Solid	<b>Primer:</b> Fed GM210M	<b>B.C.</b>	0.464
<b>COAL:</b> 2.800"	<b>Barrel Length:</b> 24"		
<b>Case:</b> W-W	<b>Twist Rate:</b> 1:10"		

<b>Bullet Weight:</b> 140 gr	<b>Case Trim Length:</b> 2.160"	<b>S.D.</b>	0.248
<b>Bullet Style:</b> TSX BT	<b>Primer:</b> Fed GM210M	<b>B.C.</b>	0.394
<b>COAL:</b> 2.800"	<b>Barrel Length:</b> 24"		
<b>Case:</b> W-W	<b>Twist Rate:</b> 1:10"		

<b>Bullet Weight:</b> 140 gr	<b>Case Trim Length:</b> 2.160"	<b>S.D.</b>	0.248
<b>Bullet Style:</b> MRX BT	<b>Primer:</b> Fed GM210M	<b>B.C.</b>	0.406
<b>COAL:</b> 2.800"	<b>Barrel Length:</b> 24"		
<b>Case:</b> W-W	<b>Twist Rate:</b> 1:10"		

Powder	Minimum		Maximum		
	Charge (grains)	Velocity (fps)	Charge (grains)	Velocity (fps)	Load Density (%)
AA 2700	51.5	2678	56.0	2885	97
◆ H414	50.0	2702	54.0	2889	93

## .284 Winchester

**Bullet Weight:** 150 gr  
**Bullet Style:** TSX BT  
**COAL:** 2.800"  
**Case:** W-W

**Case Trim Length:** 2.160"  
**Primer:** Fed GM210M  
**Barrel Length:** 24"  
**Twist Rate:** 1:10"

**S.D.** 0.266  
**B.C.** 0.408

Powder	Minimum		Maximum		
	Charge (grains)	Velocity (fps)	Charge (grains)	Velocity (fps)	Load Density (%)
♦ AA 2700	49.0	2534	53.0	2722	94
H4350	48.5	2557	52.5	2768	100

**Bullet Weight:** 160 gr  
**Bullet Style:** TSX FB  
**COAL:** 2.800"  
**Case:** W-W

**Case Trim Length:** 2.160"  
**Primer:** Fed GM210M  
**Barrel Length:** 24"  
**Twist Rate:** 1:10"

**S.D.** 0.283  
**B.C.** 0.392

**Bullet Weight:** 160 gr  
**Bullet Style:** MRX BT  
**COAL:** 2.800"  
**Case:** W-W

**Case Trim Length:** 2.160"  
**Primer:** Fed GM210M  
**Barrel Length:** 24"  
**Twist Rate:** 1:10"

**S.D.** 0.283  
**B.C.** 0.439

Powder	Minimum		Maximum		
	Charge (grains)	Velocity (fps)	Charge (grains)	Velocity (fps)	Load Density (%)
♦ Big Game	45.0	2324	51.0	2587	98
H4350	46.0	2431	51.0	2623	99

**Bullet Weight:** 175 gr  
**Bullet Style:** TSX FB  
**COAL:** 2.800"  
**Case:** W-W

**Case Trim Length:** 2.160"  
**Primer:** Fed GM210M  
**Barrel Length:** 24"  
**Twist Rate:** 1:10"

**S.D.** 0.310  
**B.C.** 0.417

Powder	Minimum		Maximum		
	Charge (grains)	Velocity (fps)	Charge (grains)	Velocity (fps)	Load Density (%)
Win 760	43.0	2267	49.5	2490	92
♦ IMR 4831	47.0	2276	50.5	2454	105