

Bullet Index: 311-170	Nose Profile: RF	Designer: RDO	Load Notes For: 30-30 Win	Primer Large Rifle	Twist 12	Min FPS 751	Bullet Notes: TLC311-165-RF "A" bullet renamed.
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Pressure Data Generated for Min OAL	Cartridge Data							Bullet Data										
	Brass Length		Cartridge OAL			Pressure Limits		Top Band	Wgt (grns)		Length w/draft		Nose		Ballistics		Gas Check #	
	Min	Max	Min	Design	Max	NMP	Pmax		GC	PB	GC	PB	length	Draft	BC	SD	Gator	Hornady
	2.035	2.040	2.491	N/A	2.535	37.4	42.0	.311	171	167	.933	.910	.450	.006	.252	.252	208284	7070

This data is based on a 22" barrel. Pressure does not change, only velocity!				
Barrel Length (inches)	16	18	20	24
Velocity Adjustment (%) Estimate	93%	96%	98%	102%

Load Notes: Plain base limited to 30.0 KPSI, read Pressure Notes.
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Revision: 0
Date: 03/19/16

Notes for NOE's and RDO's use only! ~ Any other use is at your own risk! ~ Start loads at least 10% below Max!

Read Pressure Notes for alloy treatment and pressure selections!

Minimum Barrel Length is based on the referenced powder's ability to burn at least 80% of the charge before the bullet leaves the muzzle.

Powder	Min Barrel Length	25K PSI				30K PSI				35K PSI				Pmax				
		Grains	Case %	Burn %	FPS	Grains	Case %	Burn %	FPS	Grains	Case %	Burn %	FPS	Grains	Case %	Burn %	FPS	KPSI
Accurate 1680	16	20.6	60	92	1723	22.2	65	95	1840	23.7	69	97	1942	25.4	74	99	2061	37.4
Accurate 2015	16	23.7	75	94	1786	25.3	80	97	1901	26.8	85	98	1999	28.5	90	99	2114	37.4
Accurate 2230	16	26.0	73	87	1776	27.7	78	90	1893	29.1	82	93	1995	30.9	86	95	2113	37.4
Accurate 2460	16	26.6	75	87	1788	28.4	80	91	1906	29.8	84	93	2008	31.6	89	96	2127	37.4
Accurate 2495	16	26.9	83	94	1869	28.4	88	97	1984	29.8	92	98	2082	31.4	97	99	2196	37.4
Accurate 2520	16	27.9	80	89	1832	29.6	85	92	1952	31.1	89	94	2055	32.8	94	97	2173	37.4
Accurate 2700	16									32.4	94	81	1914	34.2	99	84	2032	37.4
Accurate 4064	16	28.4	88	91	1858	30.1	93	94	1974	31.5	98	96	2076	33.2	103	98	2193	37.4
Accurate 4350	16				33.5	102	83	1956	34.6	105	86	2040	34.6	105	86	2040	30.1	
Alliant AR-Comp	16	25.0	78	97	1843	26.7	84	99	1964	28.2	88	100	2067	29.9	94	100	2182	37.4
Alliant Reloder-10x	16	22.3	72	95	1789	23.9	77	97	1905	25.4	82	99	2005	27.1	87	100	2120	37.4
Alliant Reloder-15	16	27.2	82	82	1798	29.0	88	86	1921	30.5	93	89	2029	32.3	98	92	2153	37.4
Alliant Reloder-17	16				32.4	94	83	1924	34.0	98	87	2041	35.8	104	91	2177	37.4	
Alliant Reloder-7	16	20.8	65	96	1740	22.5	70	98	1855	23.9	75	99	1954	25.6	80	100	2068	37.4
Hodgdon Benchmark	16	23.8	73	86	1730	25.6	79	90	1849	27.1	84	92	1954	29.0	89	95	2076	37.4
Hodgdon BL-C2	16	28.4	79	85	1816	30.2	84	89	1939	31.8	88	91	2048	33.6	93	94	2172	37.4
Hodgdon CFE223	16	28.5	78	82	1795	30.4	83	86	1922	32.0	87	89	2033	33.9	92	93	2162	37.4
Hodgdon H322	16	23.8	74	91	1792	25.5	80	94	1913	27.0	84	96	2018	28.8	90	98	2139	37.4
Hodgdon H335	16	25.5	71	89	1794	27.3	76	93	1916	28.8	80	95	2020	30.6	85	97	2142	37.4
Hodgdon H380	16				30.4	90	83	1910	31.9	95	86	2015	33.6	100	89	2137	37.4	
Hodgdon H414	16								34.0	97	81	2008	35.8	103	85	2138	37.4	
Hodgdon H4198	16	20.3	65	90	1699	21.9	71	93	1817	23.4	75	96	1920	25.1	81	98	2041	37.4
Hodgdon H4350	20								33.2	103	80	1956	33.9	105	81	2001	33.3	
Hodgdon H4895	16	25.8	78	84	1792	27.6	84	88	1914	29.1	88	90	2019	30.9	94	93	2144	37.4
Hodgdon Hybrid 100V	16	30.3	95	80	1770	32.2	101	85	1896	33.5	105	88	1988	33.5	105	88	1988	30.4
Hodgdon VARGET	16	26.2	82	81	1752	28.1	88	85	1874	29.6	93	88	1980	31.5	99	91	2105	37.4
IMR 3031	16	25.4	82	92	1839	27.1	88	95	1964	28.6	93	97	2072	30.4	99	99	2195	37.4
IMR 4007 SSC	16								31.6	95	81	1955	33.4	100	85	2077	37.4	
IMR 4064	16	26.0	83	82	1757	27.8	89	86	1878	29.3	94	89	1984	31.1	100	92	2106	37.4
IMR 4198	16	20.2	68	96	1746	21.9	74	98	1862	23.3	79	99	1962	25.0	85	100	2077	37.4
IMR 4227	16	18.1	60	98	1699	19.6	65	99	1812	21.0	70	100	1908	22.6	75	100	2019	37.4
IMR 4320	16	26.7	82	81	1758	28.6	88	85	1882	30.1	93	88	1990	32.0	99	91	2117	37.4
IMR 4350	18								33.1	101	80	1957	34.4	105	83	2045	35.4	
IMR 4831	18				33.1	105	83	1926	33.2	105	83	1932	33.2	105	83	1932	27.0	
IMR 4895	16	27.0	82	83	1810	28.8	87	87	1935	30.3	92	90	2043	32.1	97	93	2169	37.4
IMR 8208 XBR	16	25.1	76	85	1766	26.8	81	89	1886	28.4	86	91	1992	30.2	91	94	2113	37.4
Norma 200	16	22.3	69	96	1782	23.9	74	98	1898	25.3	78	99	1996	27.0	84	100	2110	37.4
Norma 201	16	25.7	80	86	1776	27.5	85	89	1896	29.0	90	92	2000	30.7	95	94	2122	37.4
Norma 202	16	25.8	80	90	1803	27.5	85	93	1923	29.0	89	95	2025	30.8	95	97	2144	37.4
Norma 203B	16	27.4	83	83	1804	29.2	89	87	1928	30.7	93	90	2035	32.5	99	93	2160	37.4
Norma URP	16				32.1	98	82	1919	33.7	103	86	2031	34.2	105	87	2070	33.0	
Ramshot Big Game	16	28.9	82	81	1786	30.8	88	85	1912	32.4	92	88	2023	34.3	98	91	2152	37.4
Ramshot Hunter	18								35.0	103	82	2004	35.7	105	83	2053	33.4	
Ramshot TAC	16	26.7	75	83	1775	28.5	80	87	1898	30.1	85	90	2004	31.9	90	93	2128	37.4
Ramshot Wild Boar	16	27.2	77	82	1781	29.1	83	86	1905	30.7	87	89	2013	32.5	92	92	2138	37.4
Ramshot X-Terminator	16	24.4	69	91	1781	26.2	74	94	1898	27.7	79	96	2001	29.5	84	98	2120	37.4
Vihtavuori N110	16	15.7	56	100	1662	17.0	61	100	1760	18.3	65	100	1844					
Vihtavuori N120	16	20.4	68	99	1750	21.9	73	100	1855	23.3	77	100	1946	25.0	83	100	2049	37.4
Vihtavuori N130	16	22.5	73	95	1748	24.2	78	97	1862	25.6	83	99	1960	27.4	89	100	2074	37.4
Vihtavuori N133	16	23.7	79	93	1757	25.4	84	96	1872	26.9	89	98	1971	28.7	95	99	2084	37.4
Vihtavuori N135	16	26.4	88	93	1819	28.1	94	96	1937	29.6	99	98	2038	31.3	105	99	2153	37.4
Vihtavuori N140	16	26.2	81	90	1786	28.0	87	93	1905	29.5	91	95	2008	31.3	97	98	2126	37.4
Vihtavuori N150	16	28.6	92	86	1787	30.3	98	90	1907	31.9	102	92	2011	32.7	105	94	2065	33.9
Vihtavuori N530	16	24.9	75	86	1778	26.6	80	89	1899	28.1	85	92	2003	29.8	90	94	2125	37.4
Vihtavuori N540	16	27.2	82	89	1802	29.0	87	92	1922	30.6	92	95	2026	32.4	97	97	2145	37.4
Vihtavuori N550	16				32.2	96	83	1932	33.9	100	86	2043	35.4	105	89	2150	36.2	
Winchester 748	16	26.8	76	86	1804	28.6	81	90	1930	30.2	85	93	2039	32.0	90	95	2166	37.4
Winchester 760	16								34.0	97	81	2008	35.8	103	85	2138	37.4	