

Bullet Index: 311-165	Nose Profile: RF	Designer: RDO	Load Notes For: 30-30 Win	Primer Large Rifle	Twist 12	Min FPS 647	Bullet Notes: RDO 2nd 30-30 Win design
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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		2.441	N/A	2.477	37.4	42.0	.311	165	161	.874	.857	.400	.006	.241	.241	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	94%	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	20.7	61	91	1752	22.3	66	94	1871	23.7	70	96	1975	25.4	75	98	2096	37.4
Accurate 2015	16	23.9	77	93	1819	25.5	82	96	1935	26.9	87	98	2036	28.6	92	99	2151	37.4
Accurate 2230	16	26.1	74	86	1805	27.8	79	89	1924	29.2	83	92	2027	30.9	88	95	2147	37.4
Accurate 2460	16	26.8	77	86	1818	28.5	82	90	1937	29.9	86	92	2040	31.6	91	95	2160	37.4
Accurate 2495	16	27.1	85	93	1904	28.6	90	96	2021	30.0	94	98	2121	31.5	99	99	2236	37.4
Accurate 2520	16	28.1	82	87	1861	29.8	87	91	1983	31.2	91	93	2088	32.9	96	96	2209	37.4
Accurate 2700	18													34.2	101	83	2058	37.4
Accurate 4064	16	28.7	90	90	1891	30.3	95	93	2009	31.7	100	95	2112	33.3	105	97	2231	37.4
Accurate 4350	18					33.5	103	82	1978	34.1	105	83	2017	34.1	105	83	2017	28.2
Accurate 5744	16	17.1	55	95	1731													
Alliant AR-Comp	16	25.1	80	96	1872	26.8	85	98	1997	28.3	90	99	2102	30.0	96	100	2221	37.4
Alliant Reloder-10x	16	22.5	73	94	1821	24.1	79	97	1940	25.5	83	98	2041	27.1	89	100	2159	37.4
Alliant Reloder-15	16	27.3	84	81	1824	29.0	90	84	1949	30.6	94	88	2059	32.4	100	91	2186	37.4
Alliant Reloder-17	16					32.4	95	82	1942	34.0	100	86	2061	35.7	105	90	2194	37.2
Alliant Reloder-7	16	21.0	67	95	1772	22.5	72	97	1888	24.0	76	99	1989	25.7	82	100	2106	37.4
Hodgdon Benchmark	16	23.9	75	85	1757	25.6	80	89	1878	27.2	85	91	1984	29.0	91	94	2107	37.4
Hodgdon BL-C2	16	28.5	81	84	1841	30.3	86	87	1967	31.9	90	90	2077	33.7	95	93	2204	37.4
Hodgdon CFE223	16	28.6	79	81	1818	30.4	84	85	1947	32.0	89	88	2060	33.9	94	91	2190	37.4
Hodgdon H322	16	23.9	76	90	1819	25.6	81	93	1943	27.1	86	95	2050	28.8	92	98	2174	37.4
Hodgdon H335	16	25.6	72	88	1821	27.4	77	92	1945	28.9	82	94	2052	30.7	87	96	2176	37.4
Hodgdon H380	16					30.5	92	82	1937	31.9	96	85	2043	33.7	102	88	2168	37.4
Hodgdon H414	18													35.8	104	83	2161	37.4
Hodgdon H4198	16	20.3	67	89	1727	22.0	72	93	1847	23.4	77	95	1952	25.1	83	97	2074	37.4
Hodgdon H4895	16	25.9	80	83	1820	27.7	85	87	1944	29.2	90	89	2051	30.9	95	92	2177	37.4
Hodgdon Hybrid 100V	16					32.2	103	83	1915	32.9	105	85	1970	32.9	105	85	1970	28.8
Hodgdon VARGET	16					28.1	90	84	1900	29.7	95	87	2007	31.5	100	90	2134	37.4
IMR 3031	16	25.5	84	91	1866	27.2	90	94	1994	28.7	95	96	2104	30.4	100	98	2230	37.4
IMR 4007 SSC	18													33.4	102	83	2104	37.4
IMR 4064	16	26.1	85	81	1783	27.8	91	85	1906	29.4	96	87	2012	31.1	102	91	2137	37.4
IMR 4198	16	20.3	70	95	1776	21.9	75	98	1895	23.4	80	99	1997	25.1	86	100	2115	37.4
IMR 4227	16	18.2	61	97	1730	19.7	66	99	1844	21.0	71	100	1943	22.7	76	100	2057	37.4
IMR 4320	16					28.6	90	84	1906	30.1	94	87	2016	32.0	100	90	2144	37.4
IMR 4350	22													33.9	105	80	2032	33.7
IMR 4831	22					32.6	105	81	1914	32.6	105	81	1914	32.6	105	81	1914	25.5
IMR 4895	16	27.1	84	82	1837	28.9	89	86	1963	30.4	94	89	2074	32.2	99	92	2202	37.4
IMR 8208 XBR	16	25.1	78	84	1793	26.9	83	88	1916	28.4	88	90	2022	30.2	93	93	2146	37.4
Norma 200	16	22.4	71	96	1816	24.0	76	98	1933	25.4	80	99	2033	27.1	85	100	2149	37.4
Norma 201	16	25.9	82	85	1805	27.6	87	88	1926	29.0	92	91	2031	30.8	97	94	2155	37.4
Norma 202	16	25.9	81	89	1832	27.6	87	92	1954	29.1	91	94	2059	30.8	97	97	2180	37.4
Norma 203B	16	27.5	85	82	1830	29.3	90	85	1956	30.8	95	88	2065	32.6	100	92	2192	37.4
Norma URP	18					32.1	100	81	1940	33.7	105	84	2054	33.7	105	84	2054	31.2
Ramshot Big Game	16					30.8	89	83	1936	32.4	94	87	2048	34.3	99	90	2179	37.4
Ramshot Hunter	18									35.0	105	80	2025	35.2	105	81	2035	31.7
Ramshot TAC	22	26.8	77	82	1802	28.6	82	86	1926	30.1	86	88	2034	32.0	91	92	2159	37.4
Ramshot Wild Boar	16	27.3	79	81	1806	29.1	84	85	1931	30.7	89	88	2041	32.6	94	91	2169	37.4
Ramshot X-Terminator	16	24.5	71	90	1810	26.3	76	93	1930	27.8	80	95	2034	29.5	85	97	2155	37.4
Vihtavuori N110	16	15.8	57	100	1698	17.1	62	100	1797	18.3	67	100	1883	19.9	72	100	1984	37.4
Vihtavuori N120	16	20.5	69	99	1784	22.0	74	100	1892	23.4	79	100	1985	25.1	85	100	2090	37.4
Vihtavuori N130	16	22.6	75	94	1779	24.3	80	97	1895	25.7	85	98	1995	27.4	90	99	2110	37.4
Vihtavuori N133	16	23.8	80	93	1787	25.5	86	95	1903	27.0	91	97	2005	28.7	97	99	2121	37.4
Vihtavuori N135	16	26.6	90	92	1848	28.2	96	95	1968	29.7	101	97	2072	30.9	105	98	2152	35.3
Vihtavuori N140	16	26.3	83	89	1813	28.1	88	92	1935	29.6	93	95	2039	31.4	99	97	2160	37.4
Vihtavuori N150	16	28.6	94	85	1812	30.4	99	88	1933	31.9	104	91	2038	32.1	105	92	2055	31.9
Vihtavuori N530	16	25.0	77	84	1806	26.7	82	88	1928	28.2	86	91	2035	29.9	92	94	2158	37.4
Vihtavuori N540	16	27.3	83	88	1828	29.1	89	91	1951	30.7	94	94	2057	32.5	99	96	2179	37.4
Vihtavuori N550	16					32.3	97	81	1955	33.9	102	85	2068	34.8	105	87	2134	34.2
Winchester 748	16	26.9	77	85	1830	28.7	82	89	1958	30.2	87	92	2068	32.0	92	94	2197	37.4
Winchester 760	18													35.8	104	83	2161	37.4