

Bullet Index:	Load Notes For:	Top Band	Wgt (grns)		Length w/draft		Nose length	Ballistics		Gas Check #		Bullet Notes:
311-175-FN (Saeco #315)	308 Win	.311	GC	PB	GC	PB		BC	SD	Gator	Hornady	
			181	179	1.024	1.007	.419	.264	.264	208284	7070	

Barrel Groove Diameter must be within .003" of bullet's Top Band Diameter for data to be valid!

Pressure Data Generated for Min OAL	Brass Length		Cartridge OAL			Pressure Limits		Case H2O (grns)		Primer	Twist	Min FPS	Load Notes:
	Min	Max	Min	Design	Max	NMP	Pmax	Min	Max	Large Rifle	12	1308	Plain base limited to 30.0 KPSI, read Pressure Notes.
	1.995	2.015	2.414	N/A	2.810	42.7	48.0	56.0	55.6				

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%

Revision:	0
Date:	07/24/17

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.

IMR Trail Boss 22" Barrel (+/- FPS use % above) Please see Hodgdon/IMR Notes!	Starting Load is always 70% of Case Capacity					Max Load is always 100% of Case Capacity				
	Grains	Case %	Burn %	FPS	KPSI	Grains	Case %	Burn %	FPS	KPSI
	9.7	70	100	1197	19.5	13.7	100	100	1437	31.9

Powder	Min Barrel Length	25K PSI					30K PSI					35K PSI					Pmax					
		Grains	Case %	Burn %	FPS	KPSI	Grains	Case %	Burn %	FPS	KPSI	Grains	Case %	Burn %	FPS	KPSI	Grains	Case %	Burn %	FPS	KPSI	
Accurate 1680	16	24.0	56	95	1813																	
Accurate 2015	16	27.5	70	96	1873	29.4	75	98	1992	31.1	79	99	2096	34.7	88	100	2304	42.7				
Accurate 2230	16	30.3	68	90	1875	32.2	73	93	1998	34.0	76	95	2107	37.6	85	99	2325	42.7				
Accurate 2460	16	31.0	70	90	1886	33.0	75	93	2010	34.8	79	95	2119	38.4	87	99	2339	42.7				
Accurate 2495	16	31.1	77	96	1953	32.9	82	98	2073	34.5	86	99	2178	37.8	94	100	2386	42.7				
Accurate 2520	16	32.4	75	91	1930	34.4	79	94	2054	36.1	83	96	2162	39.7	92	99	2380	42.7				
Accurate 2700	16					36.2	85	81	1938	38.1	89	84	2046	41.9	98	90	2269	42.7				
Accurate 4064	16	32.9	82	93	1947	34.8	87	96	2071	36.6	91	98	2179	40.1	100	100	2395	42.7				
Accurate 4350	16	37.3	91	83	1956	39.3	96	87	2089	41.0	100	90	2205	43.1	105	93	2349	38.0				
Alliant AR-Comp	16	29.1	73	99	1940	31.1	78	100	2063	32.8	83	100	2167	36.3	91	100	2369	42.7				
Alliant Reloder-10x	16	25.9	67	97	1873	27.8	72	99	1993	29.5	76	100	2098	33.0	85	100	2307	42.7				
Alliant Reloder-15	16	31.7	77	85	1903	33.7	82	89	2033	35.6	87	92	2146	39.3	96	96	2378	42.7				
Alliant Reloder-17	16	35.8	83	83	1922	38.1	88	88	2066	40.0	93	91	2191	43.9	102	97	2444	42.7				
Alliant Reloder-19	18									41.5	101	81	2121	43.1	105	84	2220	35.4				
Alliant Reloder-7	16	24.3	61	98	1825	26.1	66	99	1944	27.8	70	100	2047	31.4	79	100	2254	42.7				
Hodgdon Benchmark	16	27.8	69	90	1829	29.9	74	93	1955	31.7	78	95	2065	35.6	88	98	2291	42.7				
Hodgdon BL-C2	16	33.2	74	88	1924	35.3	79	92	2054	37.1	83	94	2166	40.9	91	98	2393	42.7				
Hodgdon CFE223	16	33.4	73	86	1911	35.6	78	90	2046	37.5	82	93	2163	41.4	91	97	2401	42.7				
Hodgdon H322	16	27.8	70	94	1888	29.7	75	96	2014	31.5	79	98	2123	35.1	88	100	2341	42.7				
Hodgdon H335	16	29.8	66	92	1894	31.8	71	95	2019	33.6	75	97	2128	37.4	83	99	2349	42.7				
Hodgdon H380	16	33.4	80	83	1897	35.5	85	87	2024	37.2	89	90	2136	40.9	98	94	2366	42.7				
Hodgdon H414	16					38.0	88	82	2033	40.0	92	85	2153	43.8	101	91	2398	42.7				
Hodgdon H4198	16	23.7	61	93	1794	25.6	66	96	1916	27.3	71	98	2024	31.0	80	100	2244	42.7				
Hodgdon H4350	16					37.1	92	81	1981	39.1	97	84	2096	42.2	105	89	2280	39.9				
Hodgdon H4895	16	30.0	73	87	1891	32.1	78	91	2019	33.9	83	93	2133	37.7	92	97	2364	42.7				
Hodgdon Hybrid 100V	16	35.7	90	85	1899	37.9	95	89	2033	39.7	100	92	2151	41.7	105	95	2274	36.7				
Hodgdon VARGET	16	30.7	77	85	1860	32.9	83	88	1989	34.8	88	91	2103	38.6	97	96	2333	42.7				
IMR 3031	16	29.6	77	95	1940	31.6	82	97	2069	33.3	87	99	2180	36.8	96	100	2397	42.7				
IMR 4007 SSC	16					35.3	85	82	1973	37.1	89	85	2084	40.9	98	90	2314	42.7				
IMR 4064	16	30.4	78	85	1864	32.4	84	89	1990	34.3	88	92	2102	38.0	98	96	2330	42.7				
IMR 4198	16	23.6	64	98	1833	25.5	69	99	1952	27.1	74	100	2055	30.7	83	100	2260	42.7				
IMR 4227	16	21.1	56	99	1780																	
IMR 4320	16	31.4	78	85	1872	33.5	83	89	2004	35.4	88	92	2121	39.2	97	96	2355	42.7				
IMR 4350	16					37.0	91	81	1981	39.0	95	84	2097	42.9	105	90	2329	42.5				
IMR 4831	16	36.6	93	83	1925	38.8	99	87	2059	40.7	103	90	2176	41.3	105	91	2215	32.9				
IMR 4895	16	31.4	77	86	1915	33.5	82	90	2045	35.3	86	93	2159	39.0	95	97	2391	42.7				
IMR 8208 XBR	16	29.2	71	88	1866	31.3	76	92	1992	33.1	81	94	2104	36.9	90	98	2332	42.7				
Norma 200	16	25.9	64	98	1866	27.7	69	99	1985	29.4	73	100	2088	33.0	82	100	2293	42.7				
Norma 201	16	30.0	75	89	1876	32.0	80	92	2001	33.8	84	94	2112	37.5	93	98	2338	42.7				
Norma 202	16	30.0	74	92	1898	32.0	79	95	2022	33.8	84	97	2131	37.4	93	100	2350	42.7				
Norma 203B	16	32.0	78	86	1910	34.0	83	90	2039	35.8	87	92	2152	39.6	96	97	2382	42.7				
Norma 204	16									40.6	96	81	2105	44.4	105	87	2346	42.7				
Norma MRP	20									45.0	105	82	2163									
Norma URP	16	35.5	87	82	1916	37.7	93	86	2052	39.6	97	90	2172	42.6	105	94	2365	40.1				
Ramshot Big Game	16	33.9	78	85	1905	36.1	83	89	2039	38.0	87	92	2157	41.9	96	96	2395	42.7				
Ramshot Hunter	16					39.3	93	83	2032	41.3	97	86	2153	44.5	105	91	2353	40.3				
Ramshot TAC	16	31.2	70	86	1880	33.3	75	90	2009	35.1	79	92	2121	39.0	88	97	2351	42.7				
Ramshot Wild Boar	16	31.8	73	86	1890	34.0	78	89	2021	35.9	82	92	2134	39.7	91	96	2365	42.7				
Ramshot X-Terminator	16	28.4	65	93	1872	30.4	69	96	1997	32.2	74	98	2105	36.0	82	100	2324	42.7				
Vihtavuori N120	16	23.6	63	100	1823	25.4	68	100	1931	27.1	72	100	2025	30.6	82	100	2215	42.7				
Vihtavuori N130	16	26.2	68	97	1836	28.1	73	99	1954	29.9	78	100	2057	33.5	87	100	2263	42.7				
Vihtavuori N133	16	27.6	74	96	1849	29.6	79	98	1968	31.3	83	99	2071	35.0	93	100	2278	42.7				
Vihtavuori N135	16	30.7	83	96	1916	32.7	88	98	2037	34.4	93	99	2141	38.0	102	100	2347	42.7				
Vihtavuori N140	16	30.6	76	93	1887	32.7	81	96	2010	34.5	86	97	2117	38.2	95	100	2332	42.7				
Vihtavuori N150	16	33.4	86	89	1897	35.5	92	93	2023	37.3	96	95	2131	40.7	105	98	2333	41.7				
Vihtavuori N165	22									42.6	105	80	2017									
Vihtavuori N530	16	29.0	70	89	1877	31.0	75	92	2004	32.8	79	94	2115	36.4	88	98	2342	42.7				
Vihtavuori N540	16	31.8	77	92	1902	33.9	82	95	2027	35.7	86	97	2135	39.5	95	99	2354	42.7				
Vihtavuori N550	16	35.6	85	83	1925	37.8	90	87	2060	39.7	95	90	2178	43.5	104	95	2417	42.7				
Winchester 748	16	31.3	71	90	1914	33.4	76	93	2046	35.3	80	95	2161	39.0	88	99	2390	42.7				
Winchester 760	16					38.0	88	82	2033	40.0	92	85	2153	43.8	101	91	2398	42.7				
Winchester Supreme 780	18									43.7	101	80	2085	45.								