TOM ROSTER'S 2016 NONTOXIC SHOT LETHALITY TABLE®

Proven Nontoxic Loads For Waterfowl, Doves, & Upland Game Birds ¹ Vel. Range Tested: 1,225 – 1,700 FPS ACTIVITY	Observed Hunters' Typical Shooting Range During Activity (Yards)	Most Effective Nontoxic Shot Size(s) For Birds Listed Under ACTIVITY At The Distances Listed In The Second Column	Minimum Load Weight (Ounces)	Minimum Pellet Hits Needed on Lethal Areas for Clean Kills	Minimum Pattern Count Needed at Any Distance for Clean Kills (# of Pellets in 30" Circle)	Most Effective Choke(s) at Distance (Glven profile) at Distance (Glven profile) at Distance (Glven profile) at Distance (Glven profile) by Driving and september of 12.0 g/d density and are harder that traditional, ship and are harder that traditional steel pellets.
Large Geese At Long Range	50-65	Steel BBB to T	1-1/4	1-2	50-55	Improved Modified
Giant, Western, Atlantic and Interior Canadas	50-70	HEVI-Shot 2 to B	1-1/2	1-2	50-55	Improved Modified, Full
Large Geese Over Decoys	35-50	Steel BB to BBB	1-1/4	1-2	50-55	Improved Cylinder, Modified
	35-50	HEVI-Shot 2 to B	1-1/2	1-2	50-55	Improved Cylinder, Modified
Medium/Small Geese Long Range	50-65	Steel BB to BBB	1-1/4	1-2	60-65	Improved Modified
Snow, White-fronted, Lesser Canadas	50-65	HEVI-Shot 2	1-1/2	1-2	60-65	Improved Modified, Full
Medium/Small Geese Over Decoys	35-50	Steel 2 to BB	1-1/8	1-2	60-65	Light Modified, Modified
	35-50	HEVI-Shot 4 to 2	1-1/4	1-2	60-65	Improved Cylinder, Modified
Large Ducks At Long Range	45-65	Steel 2 to 1	1-1/8	1-2	85-90	Improved Modified, Full
Mallard, Black, Pintail, Goldeneye, Gadwall	45-65	HEVI-Shot 4	1-1/4	1-2	85-90	Improved Modified, Full
Large Ducks Over Decoys	20-45	Steel 6 to 2	3/4 - 1	1-2	85-90	I.C. (20-35 Yds), Mod. (35-45 Yds)
	20-45	HEVI-Shot 6 to 4	1-1/8	1-2	85-90	I.C. (20-35 Yds), Mod. (35-45 Yds
Medium Ducks Over Decoys	20-45	Steel 6 to 3	1	1-2	115-120	I.C. (20-35 Yds), Mod. (35-45 Yds)
Wigeon, Scaup, Shoveler	20-45	HEVI-Shot 6 to 4	1-1/8	1-2	115-120	I.C. (20-35 Yds), Mod. (35-45 Yds)
Small Ducks Over Decoys	20-45	Steel 6 to 4	1	1-2	135-145	Mod. (20-35 Yds), Full (35-45 Yds
Teal, Ruddy, Bufflehead	20-45	HEVI-Shot 6	1-1/8	1-2	135-145	Mod. (20-35 Yds), Full (35-45 Yds
Ring-Necked Pheasants	20-50	Steel 3 to 2	1	2-3	90-95	I.C. (20-30 Yds), Mod. (30-50 Yds)
	20-50	HEVI-Shot 6 to 4	1-1/8	2-3	90-95	I.C. (20-30 Yds), Mod. (30-50 Yds)
Turkeys (Head and Neck Shots)	20-40	Steel 4; HEVI-Shot 6	1-1/4	3-4	210-230	Full or Extra Full
Mourning Doves	20-45	Steel 8 to 7	5/8 -3/4	1-2	200-210	IC-8's/LM-7's (20-30 Yds); Mod>30 Y
	20-45	HEVI-Shot 71/2	3/4	1-2	200-210	I.C. (20-30 Yds); Light Mod (30-45 Yd
Northern Bobwhite Quail	20-30	Steel 8 to 7	5/8 -3/4	1-2	200-210	Imp. Cyl., Light Modified
Swatter Load For Wounded Birds	20-30	Steel 7 to 6	1	1	175	Improved Modified, Full

steel-only pheasant shooting test (1999) plus lethality data bases owned by ammunition companies for birds taken with nontoxic shotshell loads Roster tested for them & the CONSEP Org.

Note: Steel #8BB (.190") & HEVI-Shot #2 (.150") have exhibited the best all-around performance for taking geese; steel #3 (.140") & HEVI-Shot #4 (.130") the best all-around performance for taking ducks; steel #2 & HEVI-Shot #4 (.130") the best all-around performance for taking ing-necked pheasants; & steel 7's (.100") the best all-around performance for taking doves.

These findings are derived from testing 2½" 28 gauge; 3" 20 ga.; 2½", 3" & 3½" 12 ga.; & 3½" 10 ga. steel loads; plus 2½" 28 ga.; 2½" & 3" 20 ga.; and 2½" & 3" 12 ga. HEVI-Shot loads.

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