

Shotshell Dram Equivalents				
GA	LENGTH	OUNCE	VELO	DRAMS
10	3 1/2	2	1210	4 1/4
10	3 1/2	2 1/4	1210	4 1/2
12	2 3/4	1	1180	2 3/4
12	2 3/4	1	1290	3 1/4
12	2 3/4	1 1/8	1145	2 3/4
12	2 3/4	1 1/8	1200	3
12	2 3/4	1 1/8	1255	3 1/4
12	2 3/4	1 1/4	1220	3 1/4
12	2 3/4	1 1/8	1300	3 1/2
12	2 3/4	1 1/4	1330	3 3/4
12	2 3/4	1 1/2	1260	3 3/4
12	3	1 3/8	1295	3 3/4
12	3	1 5/8	1280	4
12	3	1 7/8	1210	4
16	2 3/4	1	1165	2 1/2
16	2 3/4	1 1/8	1185	2 3/4
16	2 3/4	1 1/8	1295	3 1/4
16	2 3/4	1 1/4	1260	3 1/4
20	2 3/4	7/8	1210	2 1/2
20	2 3/4	1	1165	2 1/2
20	2 3/4	1	1220	2 3/4
20	2 3/4	1 1/8	1175	2 3/4
20	3	1 3/16	1195	3 1/2
20	3	1 1/4	1185	3
28	2 3/4	3/4	1200	2
28	2 3/4	3/4	1295	2 1/4
410	2 1/2	1/2	1200	MAX
410	3	9/16	1135	MAX

[illegible]

Comparative Leads 45 mph vs 60 mph					
	60 mph	21 yd	lead	50 yd	lead
	fps	secs	feet	secs	feet
Speed	88				
Shot fps	1000	0.0630	5.544	0.150	13.20
	1100	0.0573	5.040	0.136	12.00
	1200	0.0525	4.620	0.125	11.00
	1300	0.0485	4.265	0.115	10.15
	1500	0.0420	3.696	0.100	8.80
	45 mph	21 yd	lead	50 yd	lead
	fps	secs	feet	secs	feet
Speed	66				
Shot fps	1000	0.0630	4.158	0.150	9.90
	1100	0.0573	3.780	0.136	9.00
	1200	0.0525	3.465	0.125	8.25
	1300	0.0485	3.198	0.115	7.62
	1500	0.0420	2.772	0.100	6.60

	Common Choke Markings							
	PZZI	Italy	Briley	CLAS	BT TA	BRN	BRN	K Gun
CYL	0	(****)	0.000	NA	none	0	***	00
SKEET	1	(****)	0.004	6	5	5	**S-	0
IMP CYL	2	****	0.008	5	4	4	**_	1
LT MOD	3	****	0.012	4				1+
MOD	4	***	0.016	3	3	3	**	2
LT I MD	5	***	0.020					2+
I MOD	6	***	0.024	2	2	2	*_	3
LT FULL	7	**	0.028					
FULL	8	**	0.032	1	1	1	*	4
LT X FULL	9	*	0.036					
X FULL	10	*	0.040					5

12 ga Choke Selection

	Doves	Landin	Skeet	Quail	Decoy Duck	Decoy Pidge	Steel Shot	Pheasant	Chukkar	High Doves	Trap 16 Yd	Tower Shoot	Driven Birds	High Pidgeon	Wild Pheasar	High Pass sh	Trap 27 yd
Cylinder	x		x	x													
Light Skee	x		x	x													
Skeet - Ske	x		x	x	x	x											
Improved Cylinder					x	x	x	x	x								
Light Modified - Skeet 2					x	x	x	x	x	x	x	x	x				
Modified							x	x	x	x	x	x	x	x	x		
Improved Modified										x	x	x	x			x	
Light Full										x	x	x	x	x	x		
Full														x	x	x	
Extra Full														x	x	x	x

Choke selection

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Cylinder	x		x	x													
Light Skee	x		x	x													
Skeet - Ske	x		x	x													
Improved Cylinder					x	x	x										
Light Modified - Skeet 2					x	x	x	x	x								
Modified								x	x	x	x	x	x	x	x		
Improved Modified										x	x	x	x	x			
Light Full										x	x	x	x	x			
Full													x	x	x	x	
Extra Full														x	x	x	x

Choke selection

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Cylinder	x		x	x													
Light Skee	x		x	x													
Skeet - Ske	x		x	x													
Improved Cylinder					x	x	x										
Light Modified - Skeet 2					x	x	x	x	x								
Modified								x	x	x	x	x	x	x	x		
Improved Modified										x	x	x	x	x			
Light Full										x	x	x	x	x			
Full													x	x	x	x	
Extra Full														x	x	x	x

410 Choke selection

	Doves	Landin	Skeet	Quail	Decoy Duck	Decoy Pidge	Steel Shot	Pheasant	Chukkar	High Doves	Trap 16 Yd	Tower Shoot	Driven Birds	High Pidgeon	Wild Pheasar	High Pass sh	Trap 27 yd
Cylinder																	
Light Skee	x		x														
Skeet - Ske	x		x	x													
Improved Cylinder					x												
Light Modified - Skeet 2					x												
Modified					x	x											
Improved Modified					x	x											
Light Full						x		x	x	x	x	x	x	x	x	x	
Full								x	x	x	x	x	x	x	x	x	
Extra Full										x	x	x	x	x	x	x	x

CHOKE CONstriction INFO								
GUAGE AND BORE	12	0.730	20	0.617	28	0.550	410	0.410
CYL	0.000	0.729	0.000	0.617	0.000	0.550	0.000	0.410
LT SK	0.003	0.726	0.002	0.615	0.002	0.548	0.001	0.409
SK -SK 1	0.004	0.724	0.004	0.613	0.003	0.547	0.002	0.408
I CYL	0.010	0.720	0.006	0.611	0.005	0.545	0.004	0.406
LM - SK2	0.015	0.717	0.009	0.608	0.007	0.543	0.006	0.404
MOD	0.020	0.710	0.014	0.603	0.012	0.538	0.008	0.402
I MOD	0.025	0.704	0.019	0.598	0.016	0.540	0.011	0.399
LT F	0.030	0.699	0.021	0.596	0.020	0.530	0.015	0.397
FULL	0.035	0.694	0.025	0.592	0.022	0.528	0.015	0.395
X FULL	0.040	0.689	0.027	0.590	0.024	0.526	0.021	0.389

30" 40 yds Choke Pattern Percentages					
	12ga -20 ga				
CYL	25-30 %				
SKEET	30-35%				
IMP CYL	35-40%				
LT MOD	40-45%				
MOD	45-50 %				
LT I MD	50-55%				
I MOD	55-60 %				
LT FULL	60-65%				
FULL	65-75 %				
LT X FULL	75-80%				
X FULL	80-85%				

Pellet Counts										
SIZE		2	4	5	6	7.5	8	8.5	9	12
DIA		0.150	0.130	0.120	0.110	0.095	0.090	0.085	0.080	0.050
1/2	0.500	45	68	85	113	175	205	235	293	1150
16 Gm	0.564	51	76	96	127	197	231	265	330	1297
11/16	0.625	62	93	117	155	241	282	323	402	1581
19 Gm	0.670	60	90	114	151	235	275	315	392	1541
20 Gm	0.705	71	136	120	159	247	289	331	412	1622
3/4	0.750	68	101	128	169	263	308	353	439	1725
24 Gm	0.850	76	114	144	190	296	347	398	495	1947
7/8	0.875	79	118	149	197	306	359	411	512	2013
26 Gm	0.917	82	123	155	205	319	374	429	533	2097
28 Gm	0.988	89	133	168	222	351	405	464	578	2272
1	1.000	90	135	170	225	350	410	470	585	2300
1 1/8	1.125	101	152	191	253	393	461	545	658	2588
1 1/4	1.250	112	169	213	281	437	513	605	731	2875
1 3/8	1.375	124	186	234	309	481	564	665	804	3163
1 1/2	1.500	135	202	255	307	525	615	730	877	3450
1 5/8	1.625	146	220	276	366	569	666	790	951	3738
1 7/8	1.875	169	253	319	422	656	769	850	1097	4313
2	2.000	180	270	340	450	700	820	970	1170	4600
2 1/4	2.250	202	304	382	506	786	922	1090	1316	5175
Steel										
	BBB	BB	1	2	3	4	5	6	7	
DIA	0.19	0.18	0.16	0.15	0.14	0.13	0.12	0.11	0.1	
1 Oz	61	72	103	125	154	191	244	317	422	
TSS Tungston										
		2	4	5	7	7.5	8	8.5	9	
1 Oz		54	83	106	185	220	254	308	362	
1 3/8		74	114			302	350	423	498	
1 5/8		87	135			358	410	500	590	
2		108	166			440	510	616	724	
2 1/4		121	186			495	570	693	817	
2 1/2		135	208			550	635	770	905	