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Results of testing the efficiency of:

- a standard Crosman probe
- a Gmac extended probed
- a Gmac extended hollow probe

Part 1: using .22 cal Crosman Premier 14.3 grain

Part 2: using .22 cal JSB Jumbo Exact Express 14.3 grain

Crosman 2240

Temp: 69.5 F

Pellets: .22 cal Crosman Premier 14.3 grain

Remark: no pausing between shots

Date: February 13, 2010

Time: early PM

Standard Crosman probe

SHOT #	MPS	FPS
1	125,60	412,07
2	124,50	408,46
3	123,00	403,54
4	122,20	400,92
5	121,20	397,64
6	120,90	396,65
7	120,00	393,70
8	119,30	391,40
9	118,90	390,09
10	118,20	387,80
11	118,40	388,45
12	117,10	384,19
13	117,40	385,17
14	117,90	386,81
15	117,60	385,83
16	118,90	390,09
17	119,50	392,06
18	119,90	393,37
19	118,50	388,78
20	118,60	389,11
21	117,70	386,15
22	117,00	383,86
23	115,60	379,27
24	114,40	375,33
25	113,90	373,69
26	112,20	368,11
27	111,60	366,14
28	110,40	362,20

Gmac extended probe

SHOT #	MPS	FPS
1	127,50	418,31
2	125,90	413,06
3	124,80	409,45
4	123,90	406,50
5	123,20	404,20
6	122,50	401,90
7	121,60	398,95
8	121,10	397,31
9	120,30	394,69
10	119,50	392,06
11	119,40	391,73
12	118,50	388,78
13	118,70	389,44
14	118,40	388,45
15	119,70	392,72
16	119,50	392,06
17	120,20	394,36
18	120,40	395,01
19	120,10	394,03
20	119,80	393,04
21	118,40	388,45
22	117,10	384,19
23	116,50	382,22
24	115,00	377,30
25	113,80	373,36
26	112,50	369,09
27	112,00	367,45
28	111,30	365,16

Gmac extended hollow probe

SHOT #	MPS	FPS
1	127,80	419,29
2	128,40	421,26
3	127,60	418,64
4	126,30	414,37
5	126,50	415,03
6	126,40	414,70
7	125,60	412,07
8	125,20	410,76
9	124,90	409,78
10	124,20	407,48
11	124,20	407,48
12	123,40	404,86
13	122,60	402,23
14	122,90	403,22
15	123,40	404,86
16	123,50	405,18
17	123,00	403,54
18	122,50	401,90
19	121,00	396,98
20	119,80	393,04
21	118,40	388,45
22	117,90	386,81
23	116,00	380,58
24	115,20	377,95
25	114,60	375,98
26	114,30	375,00
27	112,60	369,42
28	112,10	367,78

29	110,20	361,55
30	108,90	357,28
31	108,40	355,64
32	107,20	351,71
33	106,60	349,74
34	105,10	344,82
35	104,30	342,19
36	103,70	340,22
37	102,70	336,94
38	102,30	335,63
39	101,40	332,68
40	100,80	330,71
41	100,60	330,05
42	100,20	328,74
43	99,11	325,16
	MPS	FPS
GT 40 shots	4572,00	15000,00

average	shots 1-10	398,23	fps
average	shots 1-20	393,31	fps
average	shots 1-30	385,99	fps
average	shots 1-40	375,00	fps
	high	412,07	fps
average	shots 1-10	5.04	fpe

CO2 cartridge		
Full	Empty	Nett CO2
44,0	31,3	12,7

29	110,80	363,52
30	108,80	356,96
31	109,10	357,94
32	108,40	355,64
33	106,50	349,41
34	106,20	348,43
35	105,40	345,80
36	104,60	343,18
37	103,60	339,90
38	102,60	336,61
39	102,30	335,63
40	102,00	334,65
41	101,40	332,68
42	101,10	331,69
43	99,85	327,59
	MPS	FPS
GT 40 shots	4611,90	15130,91

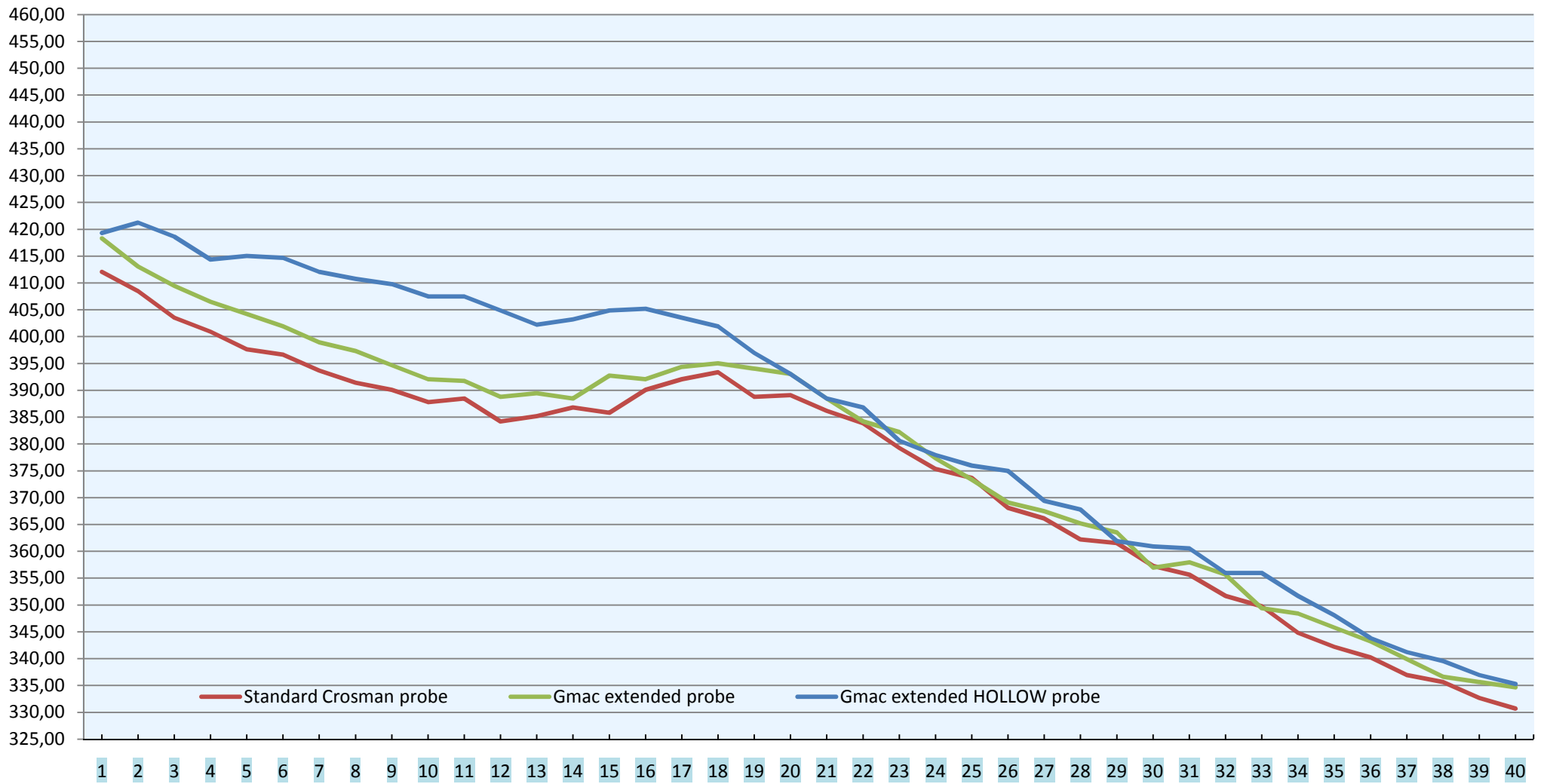
average	shots 1-10	403,64	fps
average	shots 1-20	397,80	fps
average	shots 1-30	389,46	fps
average	shots 1-40	378,27	fps
	high	418,31	fps
average	shots 1-10	5.17	fpe

CO2 cartridge		
Full	Empty	Nett CO2
44,0	31,4	12,6

29	110,30	361,88
30	110,00	360,89
31	109,90	360,56
32	108,50	355,97
33	108,50	355,97
34	107,20	351,71
35	106,10	348,10
36	104,80	343,83
37	104,00	341,21
38	103,50	339,57
39	102,70	336,94
40	102,20	335,30
41	100,80	330,71
42	99,97	327,99
	MPS	FPS
GT 40 shots	4688,00	15380,58

average	shots 1-10	414,34	fps
average	shots 1-20	408,33	fps
average	shots 1-30	397,05	fps
average	shots 1-40	384,51	fps
	high	421,26	fps
average	shots 1-10	5,45	fpe

CO2 cartridge		
Full	Empty	Nett CO2
44,0	31,3	12,7



Results of testing the efficiency of:

- a standard Crosman probe
- a Gmac extended probe
- a Gmac extended hollow probe

Speeds measured using a Shooting M Chrony®, fully opened, indoor, using the diffusers and indoor light fixture.

Distance from tip of barrel to Shooting Chrony®: 1 meter = 3.3 feet = 1.09 yard

Pistol: standard Crosman 2240 + standard slip-on Crosman silencer

Modifications to pistol:

polished mating surfaces of trigger and sear
adjustable trigger spring

Pistol was shot from a fixed position, table and Chrony position were also fixed.

The pellets used were randomly picked from the same tin: Crosman Premier 14,3 grain

CO2 cartridges (powerlets) used @ room temperature: Crosman brand, weighed full and empty.

Recording the shotstrings stopped after reaching the first shot below 328 fps, after which the powerlet was emptied and the pistol left alone for half an hour to adapt to room temperature.

The powerlets were taken from a batch of 30 and those that had a full weight closest to 44 grams have been used in this test.

The actual recording of the Chrony sessions can be viewed here: <http://www.youtube.com/gmaccustomparts>

This document is available for download @

<http://www.crosman-air-pistol-owners-forum.com> and <http://www.gmaccustomparts.com>

If discussed on a forum please point to both this document and the above mentioned YouTube Channel

Testing has been done by Brutuz, founder and admin of <http://www.crosman-air-pistol-owners-forum.com>

Crosman 2240

Temp: 71 F

Pellets: **.22 cal JSB Jumbo Exact Express 14.3 grain**

Remark: no pausing between shots

Date: February 14, 2010

Time: late PM

Standard Crosman probe

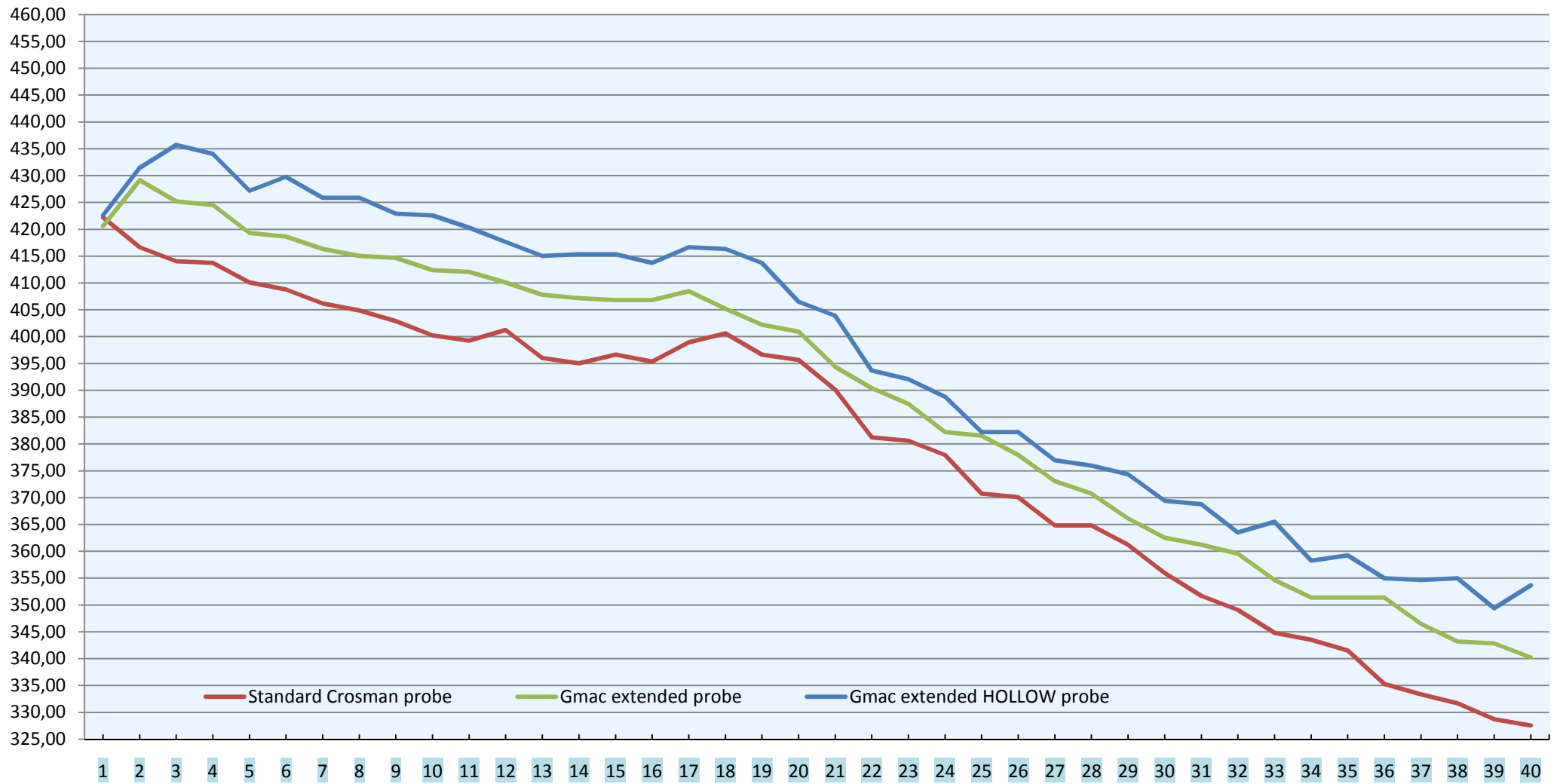
SHOT #	MPS	FPS
1	128,70	422,24
2	127,00	416,67
3	126,20	414,04
4	126,10	413,71
5	125,00	410,10
6	124,60	408,79
7	123,80	406,17
8	123,40	404,86
9	122,80	402,89
10	122,00	400,26
11	121,70	399,28
12	122,30	401,25
13	120,70	396,00
14	120,40	395,01
15	120,90	396,65
16	120,50	395,34
17	121,60	398,95
18	122,10	400,59
19	120,90	396,65
20	120,60	395,67
21	118,90	390,09
22	116,20	381,23
23	116,00	380,58
24	115,20	377,95
25	113,00	370,73
26	112,80	370,08
27	111,20	364,83
28	111,20	364,83

Gmac extended probe

SHOT #	MPS	FPS
1	128,20	420,60
2	130,80	429,13
3	129,60	425,20
4	129,40	424,54
5	127,80	419,29
6	127,60	418,64
7	126,90	416,34
8	126,50	415,03
9	126,40	414,70
10	125,70	412,40
11	125,60	412,07
12	125,00	410,10
13	124,30	407,81
14	124,10	407,15
15	124,00	406,82
16	124,00	406,82
17	124,50	408,46
18	123,50	405,18
19	122,60	402,23
20	122,20	400,92
21	120,20	394,36
22	119,00	390,42
23	118,10	387,47
24	116,50	382,22
25	116,30	381,56
26	115,20	377,95
27	113,70	373,03
28	113,00	370,73

Gmac extended hollow probe

SHOT #	MPS	FPS
1	128,80	422,57
2	131,50	431,43
3	132,80	435,70
4	132,30	434,06
5	130,20	427,17
6	131,00	429,79
7	129,80	425,85
8	129,80	425,85
9	128,90	422,90
10	128,80	422,57
11	128,10	420,28
12	127,30	417,65
13	126,50	415,03
14	126,60	415,35
15	126,60	415,35
16	126,10	413,71
17	127,00	416,67
18	126,90	416,34
19	126,10	413,71
20	123,90	406,50
21	123,10	403,87
22	120,00	393,70
23	119,50	392,06
24	118,50	388,78
25	116,50	382,22
26	116,50	382,22
27	114,90	376,97
28	114,60	375,98



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