

LONG RANGE TESTING of the HEXTA TARGET SYSTEM

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with considerable help from
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Five tests of the HEXTA 2 electronic target system were conducted at the Wongetti Rifle Range in Cairns on the 27th October 2017 to provide performance data of the system at 800 metres.

The testing procedure was identical to that used in all the previous tests and is explained in full in the document “Procedure” available at

<https://sites.google.com/site/targettests2016/home/procedure>

All testing was conducted at 800 metres. The targets tested were two older targets, CH3 and CH5, which had 2291 and 1714 shots on them respectively, and CH6 which was new. Each target was tested with a series of at least thirty shots from a 308 Winchester firing 155.5gn Berger projectiles and in addition target CH5 was also tested with a .223 Remington firing 80gn Sierra projectiles, and a 7mm RSAUM firing 180gn Berger projectiles.

Weather on the day was fine with a temperature of 30°C and with absolutely no wind.

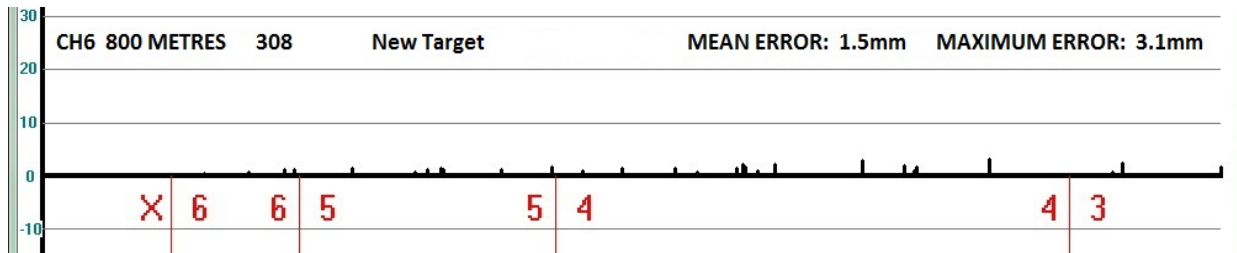
Results

The measure used in assessing the precision of an electronic target is the linear distance between the actual position of the shot and the reported position after the centring error has been removed and so is always positive. A comprehensive set of results for each test is contained in the final pages of the report.

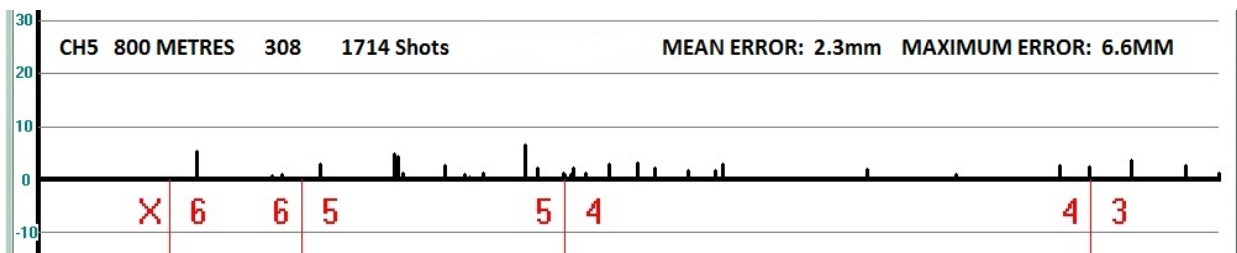
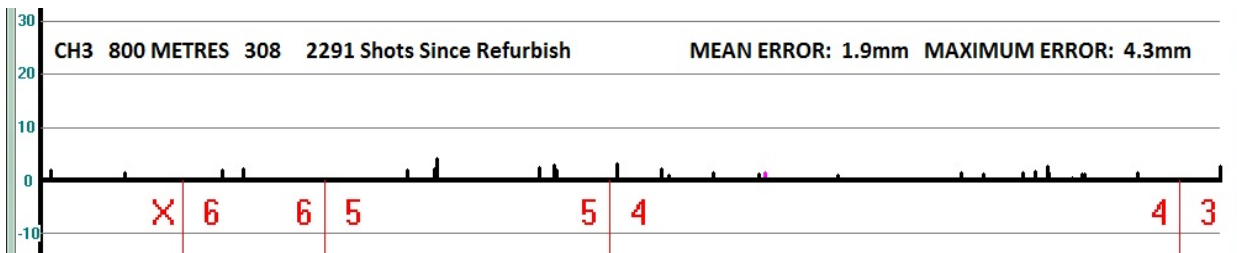
The table below lists the major error statistics for the three targets showing the variability between individual targets for the tests with the 308.

Target	CH 3	CH 5	CH 6
Number of Shots	2291	1714	0
SD x (mm)	1.5	2.1	1.3
SD y (mm)	1.4	1.8	1.1
Mean Linear Error (mm)	1.9	2.3	1.5
Linear Error SD (mm)	0.8	1.5	0.7
Max Linear Error (mm)	4.3	6.6	3.1

It is no surprise that the new target CH6 produced the best result for precision.



Additionally it was expected that the tests would show precision degrading in line with increasing usage, especially considering the history of these targets, however that was not the case. Target CH3 was new in August 2016 and had sustained 5564 shots on it before it was refurbished in July 2017 and an additional 2291 between refurbishment and the date of testing. Target CH5 was new in July 2017 and had accumulated 1714 shots when tested.



Target CH5 has not been preferentially used at shorter ranges or with F Class rifles and there is no obvious explanation for the poorer performance and it is unfortunate that we chose this target for the following test, either of the other two would have been a better test bed.

The intention behind testing one of the targets with three different rifles was to investigate whether the precision was affected by using different calibre projectiles, because any significant difference has the potential to skew results in competition.

The error statistics for the three rifles are presented in the table below and while the 223 is clearly the worst performer there is no significant difference in precision between the 7mm and the 308. If the difference was caused by sensitivity to velocity at the target the major difference should have been between the 7mm and the 308, and the same reasoning applies to projectile weight.

A closer examination of the data reveals that the difference in 223 precision is almost entirely due to shot number 4 and if the errors are recalculated with this shot removed from the Remington sequence the 223 precision is almost identical to that of the 308.

Rifle Calibre		7mm RSAUM	308 Winchester	223 Remington
Mean Muzzle Velocity	(ft/sec)	2926	2940	2914
Calculated Terminal Velocity	(ft/sec)	1881	1501	1399
SD x	(mm)	1.8	2	2.8 (1.9)
SD y	(mm)	2.2	1.8	2.7 (2.2)
Mean Linear Error	(mm)	2.5	2.3	2.9 (2.4)
Linear Error SD	(mm)	1.3	1.5	2.6 (1.6)
Max Linear Error	(mm)	5.3	6.6	14.7 (6.9)

◆ The figures in brackets are the error statistics recalculated with shot 4 removed.

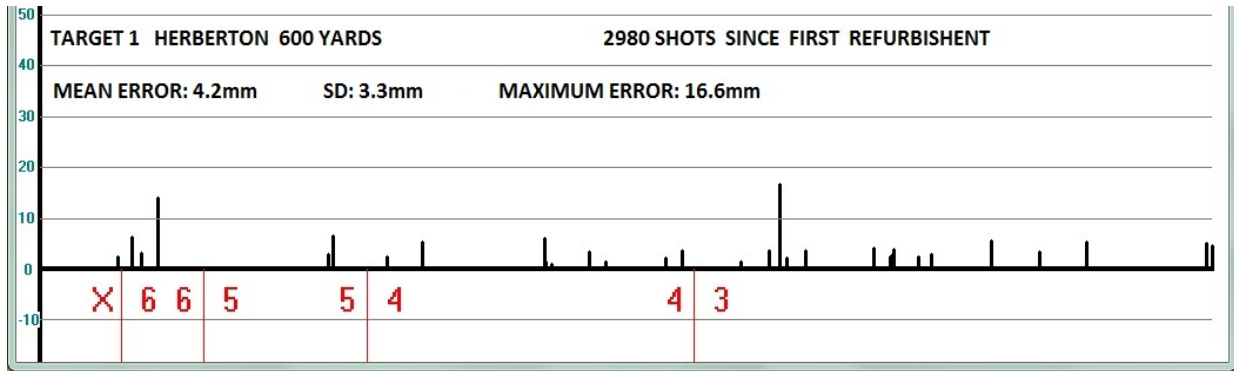
In view of the suspect performance of CH5 it is tempting to put shot 4 down to a glitch in the target but there is no supporting evidence one way or the other.

Anecdotal reports from testing at Belmont range in Brisbane suggest there is no difference in precision between the 223 and 308 calibres but our testing can not confirm this.

With the closed chamber target systems any test of precision is just a snapshot in time due to the deterioration of the rubber membranes as successive shots pierce them both front and back. A common question, to which there is no easy answer, is “How often or after how many shots do you have to repair the targets?”. F Class shooters and short ranges concentrate the damage in the centre of the target requiring more frequent rebuilds, but it also depends on what level of inaccuracy the users are prepared to tolerate.

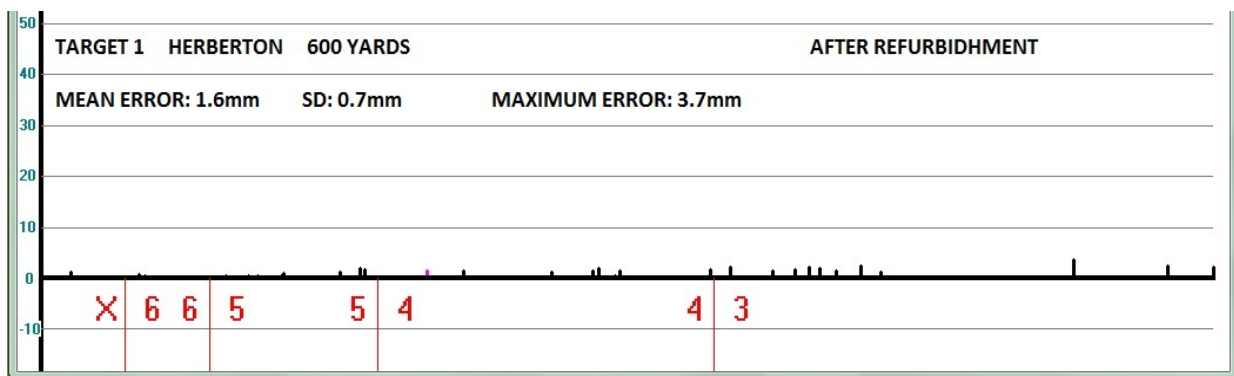
A question that is just as important is “How well do the targets come back after a rebuild?”. Answering this requires a full test to be done just before and immediately after the target has been refurbished and since this was not done on the Cairns targets the data presented below is from the Herberton Hexta targets and relates to testing at the shorter 600 yard range.

The error bar graphs relate to tests done either side of the second 'rebuild' of target 1. There were earlier tests on both the Herberton targets but the testing technique was still being developed and the results from the earlier tests are suspect for a variety of reasons. The testing that yielded the graphs below used the same procedure that has been used for all the subsequent tests.



When the above test was done the total shot count on the target was 5808 and there had been 2980 shots since it was refurbished.

The graph below shows the results after the rebuild which takes around 30 minutes.



The precision of this target after this second repair was actually better than that measured when the target was new but this is almost certainly due to deficiencies in the earlier testing methods.

Details of all the Cairns tests follow in our usual two page per test format.

This is best viewed on a large screen with two pages side by side.

HEXTA NO 3 CAIRNS 308 800m 30 SHOTS

d	-----	-----	-----	-----	UPRIGHT	RIGID	Vo (LR)	-----	Vcalc	Vo SD	Predicted Target	V SD
800m	-----	-----	-----	-----	NO EFFECT	NO EFFECT	2940	-----	1501	10.6	8	-----

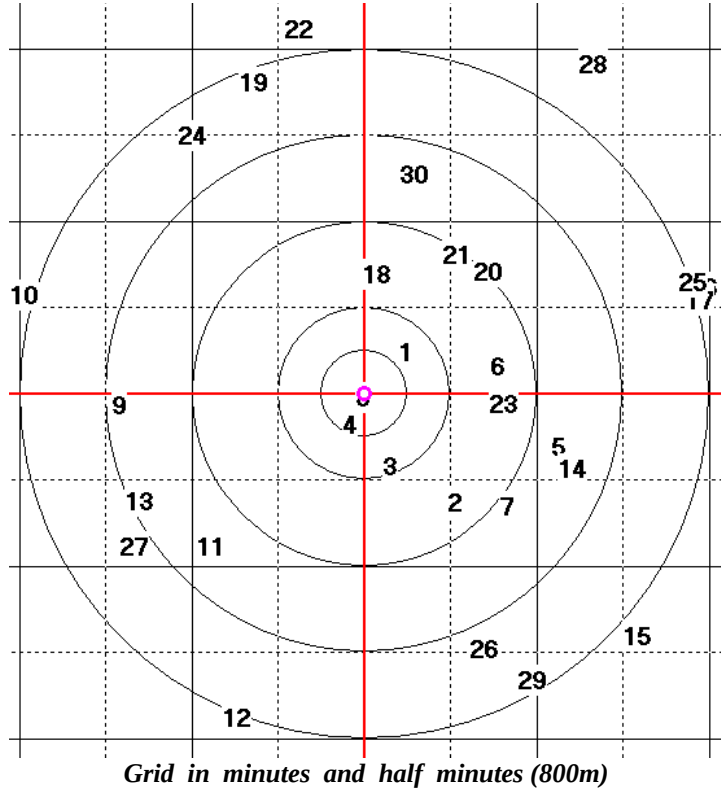
X SPAN 922.71 mm
 Y SPAN 933.55 mm
 CENTRE FITTED REPORT
 X CENTRE SHIFT -1.47 mm
 Y CENTRE SHIFT -2.69 mm
 Show n Further from Centre 13
 Show n Closer to Centre 17
 SDx 1.50 mm
 SDy 1.40 mm
 MEAN (mm)SD (mm)
 LINEAR ERR 1.90 0.79

mean mean mean
 Berger 155.5 Fullbore Projectile
 Temp 33-35 during firing

Fri Oct 27 2017

2291 shots since refurbishment (plus 5564 from new)

SHOT POSITIONS



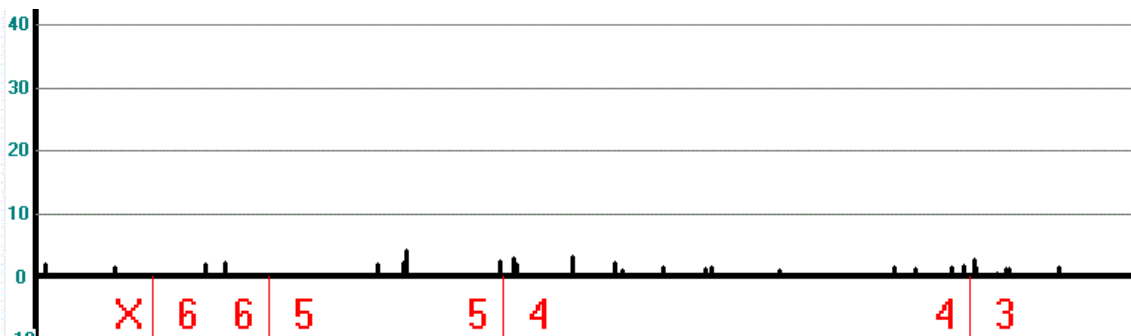
No	Impact X	Impact Y	Monitor X	Monitor Y
1	52.76	63.24	53.2	64.22
2	119.81	-141.01	119.13	-137.88
3	31.59	-91.47	31.53	-87.12
4	-23.14	-35.37	-20.38	-31.82
5	260.26	-65.73	265.01	-62.92
6	177.25	43.63	179.61	48.27
7	190.11	-146.72	191.93	-141.06
8	-5.09	1.1	-2.38	2.04
9	-336.77	-8.26	-335.45	-6.84
10	-467.56	141.56	-464.74	144.03
11	-213.18	-200.47	-209.43	-197.72
12	-178.96	-432.05	-179.29	-429.27
13	-311.2	-139.31	-308.23	-136.9
14	277.2	-95.47	277.6	-92.64
15	365.07	-322.16	366.09	-318.24
16	455.15	150.89	457.16	153.55
17	449.18	133.72	451.32	137.82
18	11.41	168.32	13.72	169.18
19	-154.64	429.98	-154.69	432.28
20	163.92	172.58	164.98	173.17
21	120.16	196.24	120.73	196.69
22	-93.04	501.5	-92.1	505.6
23	183.91	-7.69	182.57	-8.29
24	-237.6	356.91	-236.78	360.98
25	440.32	159.06	439.14	162.11
26	158.41	-340.3	160.27	-337.69
27	-317.68	-199.75	-315.67	-196.06
28	306.06	454.43	310.07	455.85
29	222.51	-381.77	225.34	-378.77
30	62.53	305.42	62.7	309.09

RAW MEASUREMENTS
 in mm

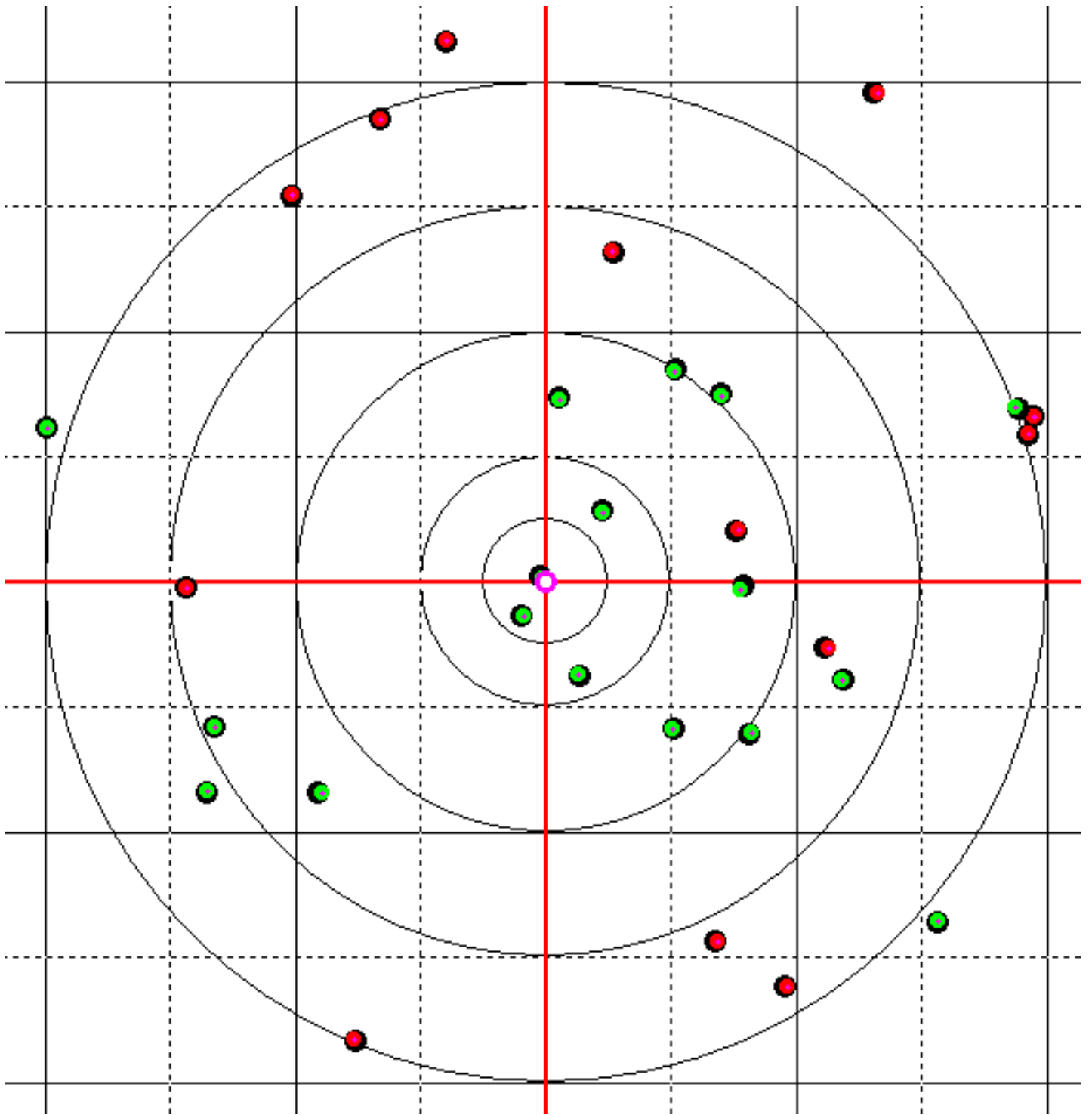
CENTRED ERRORS

X err	Y err	R err	Lin err
-1.03	-1.71	-1.57	2
-2.15	0.44	-1.18	2.2
-1.53	1.66	-1.27	2.26
1.29	0.86	-1.55	1.55
3.28	0.12	2.96	3.28
0.89	1.95	1.23	2.14
0.35	2.97	-2.11	2.99
1.24	-1.75	-0.57	2.14
-0.15	-1.27	0.25	1.28
1.35	-0.22	-1.36	1.36
2.28	0.06	-1.79	2.28
-1.8	0.09	0.75	1.81
1.5	-0.28	-1.26	1.52
-1.07	0.14	-1.01	1.08
-0.45	1.23	-1.22	1.31
0.54	-0.03	0.5	0.54
0.67	1.41	1.03	1.56
0.84	-1.83	-1.99	2.01
-1.52	-0.39	0.36	1.57
-0.41	-2.1	-1.95	2.14
-0.9	-2.24	-2.41	2.41
-0.53	1.41	1.51	1.51
-2.81	-3.29	-1.92	4.33
-0.65	1.38	1.47	1.53
-2.65	0.36	-2.38	2.68
0.39	-0.08	0.18	0.39
0.54	1	-0.97	1.14
2.54	-1.27	0.18	2.84
1.36	0.31	0.23	1.39
-1.3	0.98	0.96	1.63

2291 shots since last refurbishment (plus 5564 from new)



X, 6, 5, 4, 3 indicate Score or how far shot is from the centre.
BARS ARE REAL ERROR SIZE



Grid in minutes and half minutes (800 m)

2291 shots since last refurbishment (plus 5564 from new)

TOTAL 7855 shots.

Refurbishment takes maybe 30 minutes.

HEXTA NO 5 CAIRNS 7mm SAUM 800m 32 SHOTS

d	----	----	----	----	UPRIGHT	RIGID	Vo (LR)	-----	Vcalc	Vo SD	Predicted Target	V SD	----
800m	----	----	----	----	NO EFFECT	NO EFFECT	2926	-----	1881	6	5	-----	-----

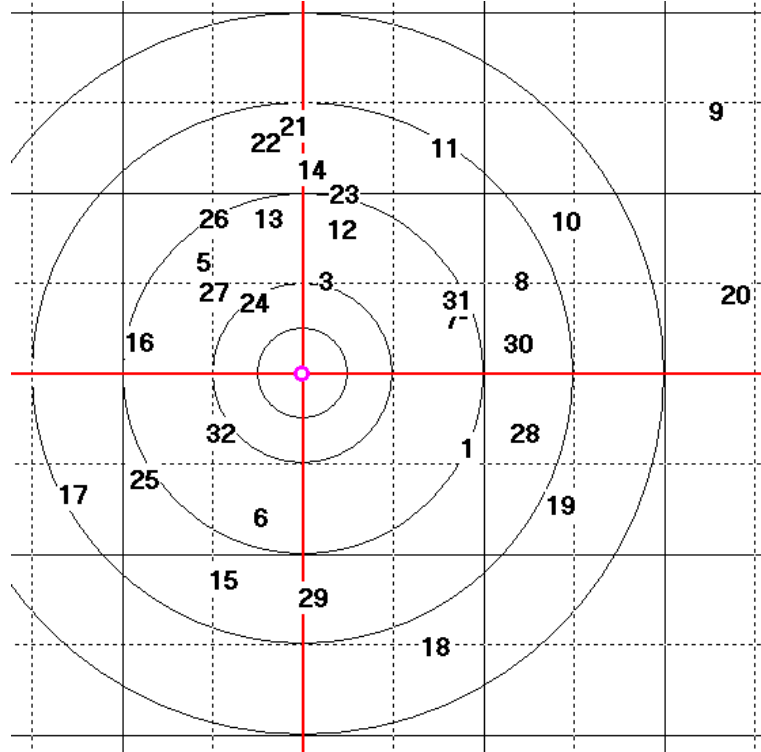
X SPAN 858.43 mm
 Y SPAN 693.84 mm
 CENTRE FITTED REPORT
 X CENTRE SHIFT 2.87 mm
 Y CENTRE SHIFT 3.35 mm
 Show n Further from Centre 12
 Show n Closer to Centre 20
 SDx 1.77 mm
 SDy 2.15 mm
 MEAN (mm)SD (mm)
 LINEAR ERR 2.45 1.33

mean mean mean
 Berger 180 Hybrid Projectile
 Temp 34 - 35 during firing

Fri Oct 27 2017

1714 shots since refurbishment

SHOT POSITIONS



No	Impact X	Impact Y	Monitor X	Monitor Y
1	213.71	-84.41	210.75	-87.95
2	204.28	95.1	199.9	90.92
3	30.05	133.08	26.02	134.18
4	-129.6	149.05	-130.99	143.65
5	-127.97	157.56	-128.91	155.3
6	-54.41	-172.95	-56.88	-174.2
7	192.87	83.33	188.83	78.06
8	283.74	132.27	281.3	129.1
9	536	353.5	537.68	347.49
10	340.06	210.06	336.76	207.43
11	183.9	304.77	178.78	301.13
12	50.39	199.89	46.54	193.3
13	-45.12	213.4	-47.77	211.66
14	11.58	277.06	9.03	278.05
15	-103.42	-253.76	-105.66	-256.57
16	-212.76	54.09	-210.97	47.15
17	-298.43	-144.05	-301.31	-146.55
18	171.05	-340.34	165.24	-342.47
19	333.69	-157.46	327.87	-160.99
20	560	115	558.61	108.98
21	-12.26	333.97	-14.29	332.61
22	-48.85	312.79	-50.86	312.02
23	52.38	245.14	49.54	245.45
24	-62.67	105.11	-67.68	99.35
25	-205.25	-124.83	-207.27	-125.97
26	-115.45	213.4	-118.07	209.33
27	-115.62	118.55	-117.82	112.3
28	287.3	-64.6	283.69	-68.56
29	12.19	-277.66	7.49	-281.5
30	278.95	51.87	273.84	47.88
31	199.79	108	195.97	102.06
32	-106.33	-64.89	-107.37	-67.8

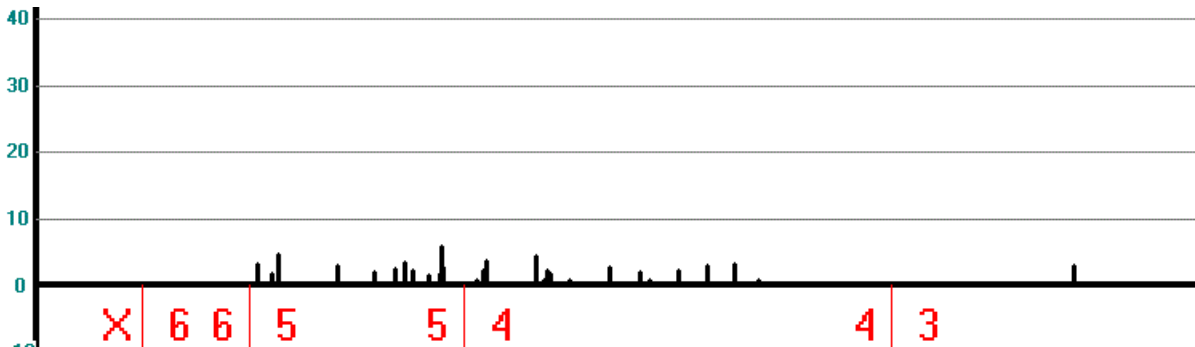
RAW MEASUREMENTS
 in mm

Grid in minutes and half minutes (800m)

CENTRED ERRORS

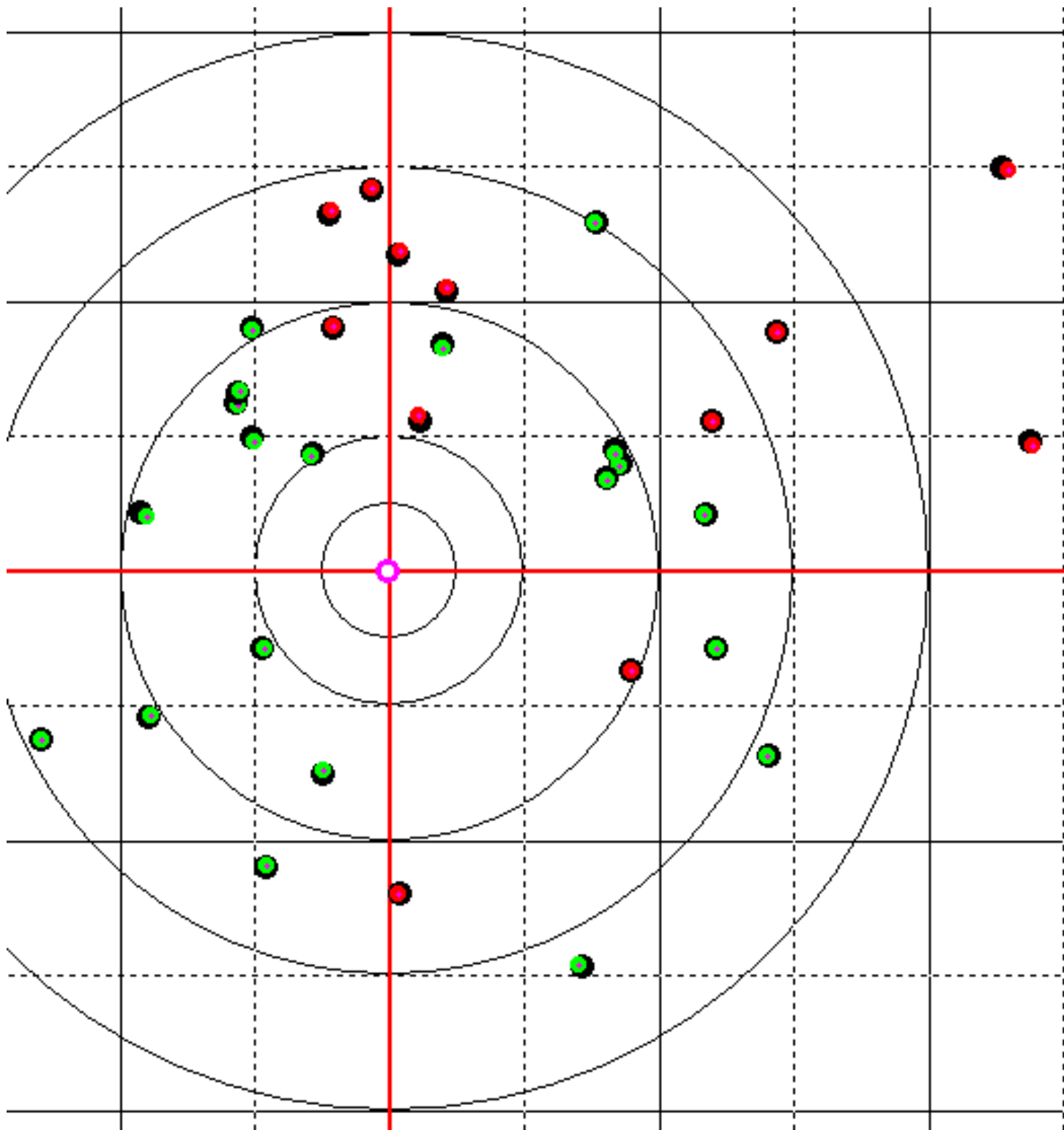
1714 shots since refurbishment

X err	Y err	R err	Lin err
-0.09	-0.19	0.08	0.21
-1.51	-0.83	-1.63	1.72
-1.16	4.45	4.35	4.6
1.48	-2.05	-2.11	2.53
1.93	1.09	-1.33	2.22
0.4	2.1	-2.05	2.14
-1.17	-1.92	-1.34	2.25
0.43	0.18	0.46	0.47
4.55	-2.66	2.52	5.27
-0.43	0.72	-0.05	0.84
-2.25	-0.29	-1.23	2.27
-0.98	-3.24	-3.02	3.39
0.22	1.61	1.11	1.62
0.32	4.34	4.08	4.35
0.63	0.54	-0.77	0.83
4.66	-3.59	-4.41	5.88
-0.01	0.85	-0.42	0.85
-2.94	1.22	-1.87	3.18
-2.95	-0.18	-2.1	2.96
1.48	-2.67	1.24	3.05
0.84	1.99	1.64	2.16
0.86	2.58	1.93	2.72
0.03	3.66	3.63	3.66
-2.14	-2.41	1.52	3.22
0.85	2.21	-1.97	2.37
0.25	-0.72	-0.63	0.76
0.67	-2.9	-1.34	2.98
-0.74	-0.61	-0.3	0.96
-1.83	-0.49	0.8	1.9
-2.24	-0.64	-2.17	2.33
-0.95	-2.59	-1.61	2.76
1.83	0.44	-1.72	1.88



X, 6, 5, 4, 3 indicate Score or how far shot is from the centre

BARS ARE REAL ERROR SIZE



Grid in minutes and half minutes (800 m)

1714 shots since refurbishment

Refurbishment takes maybe 30 minutes

HEXTA NO 5 CAIRNS 223 800m 31 SHOTS

d	----	----	----	----	UPRIGHT	RIGID	Vo (LR)	-----	Vcalc	Vo SD	Predicted Target	V SD	----
800m	----	----	----	----	NO EFFECT	NO EFFECT	2914	-----	1399	12.5	8		-----

X SPAN 829.69 mm
 Y SPAN 815.26 mm
 CENTRE FITTED REPORT
 X CENTRE SHIFT 1.80 mm
 Y CENTRE SHIFT 4.62 mm
 Show n Further from Centre 11
 Show n Closer to Centre 20
 SDx 2.79 mm
 SDy 2.72 mm
 MEAN (mm)SD (mm)
 LINEAR ERR 2.87 2.64

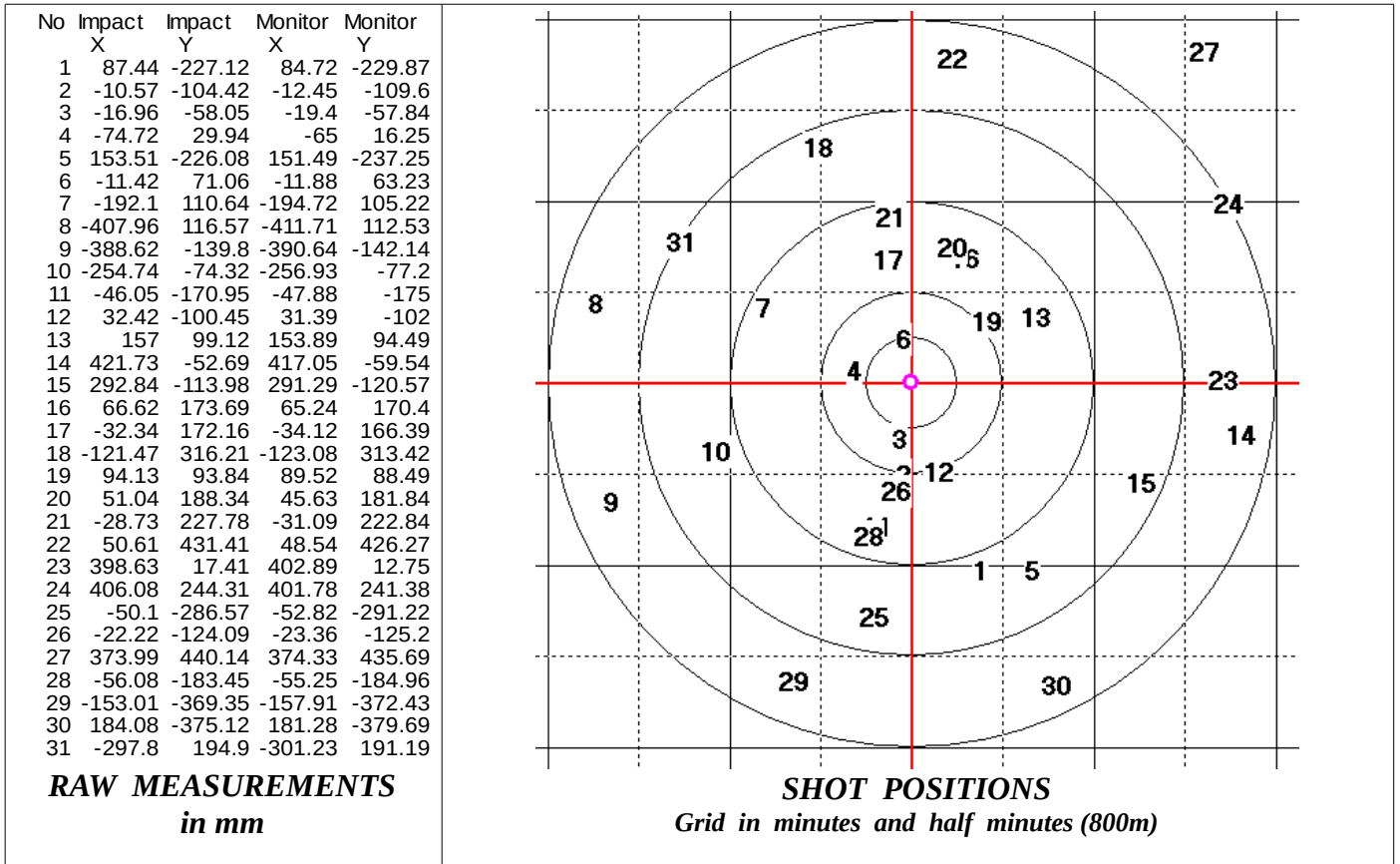
mean mean mean

Sierra 80 grain SMK Projectile

Temp 34 during firing

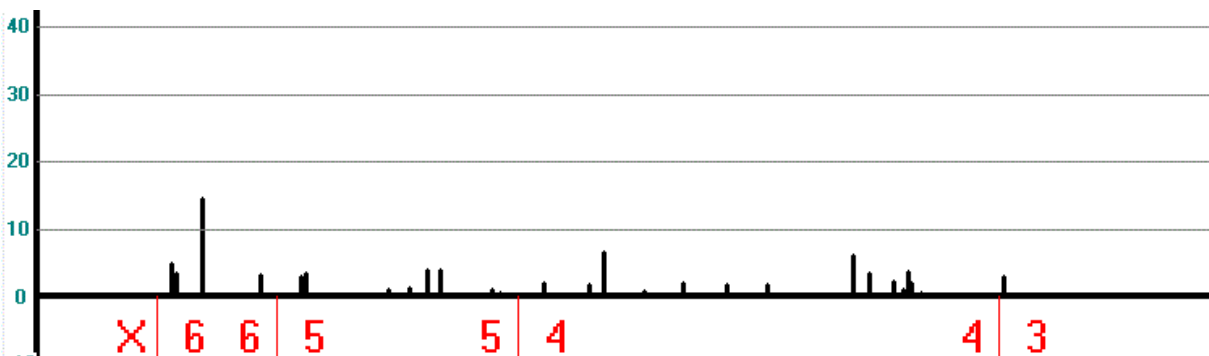
Fri Oct 27 2017

1714 shots since refurbishment



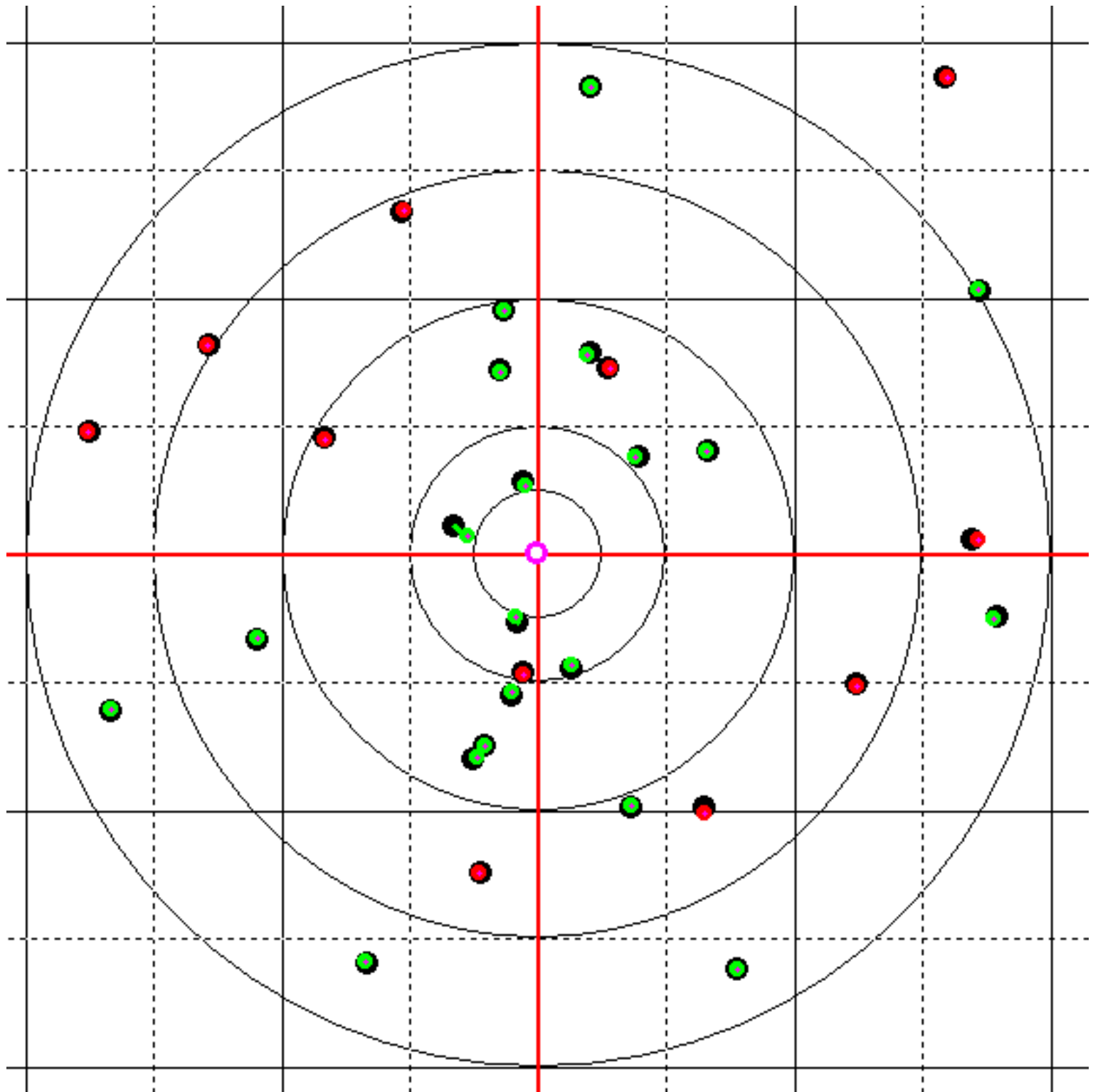
CENTRED ERRORS

1714 shots since refurbishment



X, 6, 5, 4, 3 indicate Score or how far shot is from the centre
BARS ARE REAL ERROR SIZE

X err	Y err	R err	Lin err
-0.92	1.87	-2.05	2.09
-0.08	-0.56	0.56	0.57
-0.64	4.83	-3.9	4.87
11.52	-9.07	-12.86	14.66
-0.22	-6.55	5.61	6.55
1.34	-3.21	-3.47	3.48
-0.82	-0.8	0.4	1.15
-1.95	0.58	2.04	2.04
-0.22	2.28	-0.57	2.29
-0.39	1.74	-0.13	1.78
-0.03	0.57	-0.52	0.57
0.77	3.07	-2.95	3.16
-1.31	-0.01	-1.11	1.31
-2.88	-2.23	-2.5	3.65
0.25	-1.97	1.04	1.99
0.42	1.33	1.39	1.39
0.02	-1.15	-1.1	1.15
0.19	1.83	1.59	1.84
-2.81	-0.73	-2.41	2.91
-3.61	-1.88	-2.45	4.07
-0.56	-0.32	-0.19	0.65
-0.27	-0.52	-0.54	0.59
6.06	-0.04	6.05	6.06
-2.5	1.69	-1.26	3.02
-0.92	-0.03	0.24	0.93
0.66	3.51	-3.55	3.57
2.14	0.17	1.49	2.14
2.63	3.11	-3.85	4.07
-3.1	1.54	-0.1	3.47
-1	0.05	-0.44	1.01
-1.63	0.91	1.87	1.87



Grid in minutes and half minutes (800 m)

1714 shots since refurbishment

Refurbishment takes maybe 30 minutes

HEXTA NO 5 CAIRNS 308 800m 32 SHOTS

d	----	----	----	----	UPRIGHT	RIGID	Vo (LR)	-----	Vcalc	Vo SD	Predicted Target V SD	----
800m	----	----	----	----	NO EFFECT	NO EFFECT	2940	-----	1501	10.6	8	----

X SPAN 1024.50 mm
 Y SPAN 922.89 mm
 CENTRE FITTED REPORT
 X CENTRE SHIFT 1.87 mm
 Y CENTRE SHIFT 2.08 mm
 Show n Further from Centre 9
 Show n Closer to Centre 23
 SDx 2.05 mm
 SDy 1.83 mm
 MEAN (mm)SD (mm)
 LINEAR ERR 2.33 1.45

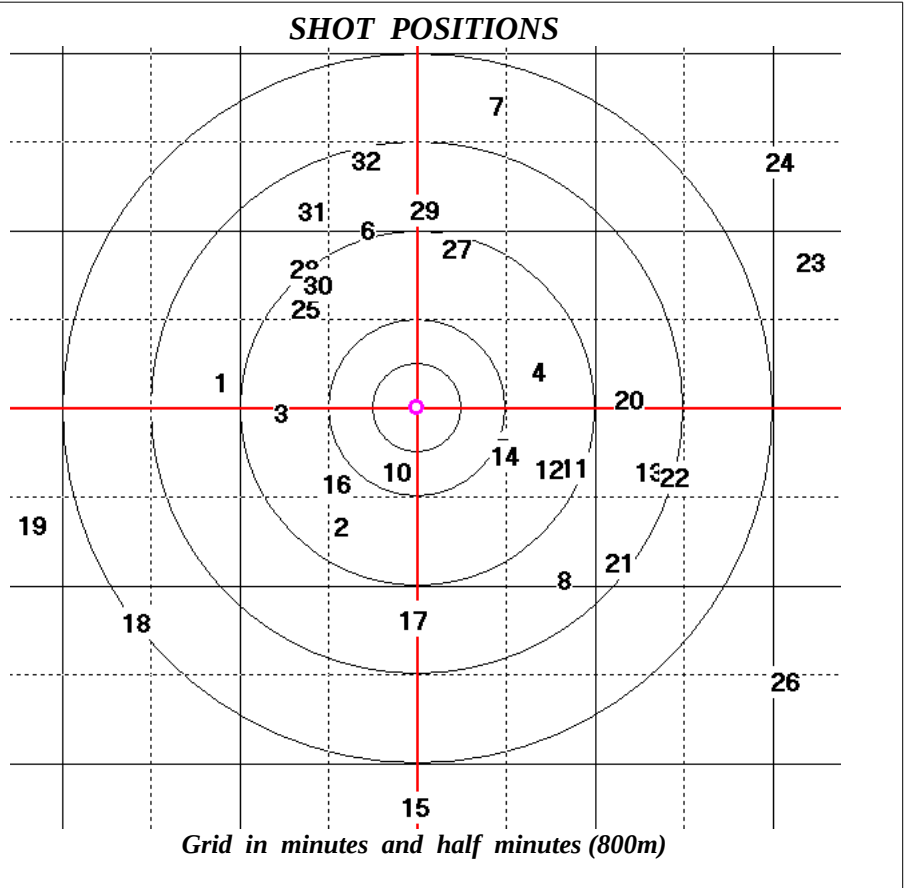
mean mean mean
 Berger 155.5 Fullbore Projectile
 Temp 34 during firing

Fri Oct 27 2017

1714 shots since refurbishment

No	Impact X	Impact Y	Monitor X	Monitor Y
1	-259.64	44.69	-262.39	43.43
2	-101.44	-145.33	-99.46	-144.34
3	-179.73	4.55	-177.2	3.14
4	160.02	58.57	157.89	56.77
5	111.95	-40.99	110.79	-42.83
6	-65.05	244.94	-67.24	245.14
7	102.75	408.61	99.09	405.54
8	192.37	-214.93	188.05	-218.69
9	-0.19	-263.69	-2.98	-266.4
10	-28.88	-71.96	-25.82	-71.75
11	205.9	-67.95	203	-70.05
12	171.5	-69.59	168.36	-71.16
13	304.38	-71.92	300.29	-74.6
14	113.32	-51.28	112.62	-53.38
15	-3.44	-514.28	-6.85	-514.08
16	-107.33	-89.45	-106.87	-89.57
17	-7.37	-268.32	-10.59	-272.12
18	-372.11	-272.15	-374.53	-273.24
19	-508.5	-143.5	-510.6	-143.07
20	278.14	22.31	275.47	19.26
21	265.95	-193.3	262.37	-196.16
22	337.75	-80.67	333.1	-83.59
23	516	204	511.92	198.77
24	476.15	335.25	472.67	330.9
25	-148.64	141.96	-150.19	142.74
26	484.11	-348.84	482.68	-349.55
27	50.26	221.75	48.54	221.04
28	-150.33	195.43	-147.15	189.05
29	7.34	271.29	5.79	268.09
30	-131.92	174.32	-134.22	172.52
31	-140.06	269.74	-141.94	264.5
32	-69.98	336.71	-71.11	333.03

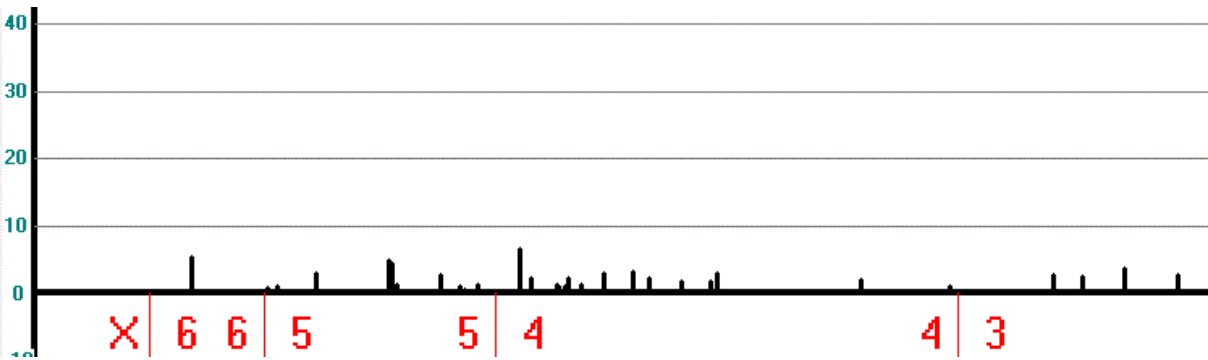
RAW MEASUREMENTS
in mm



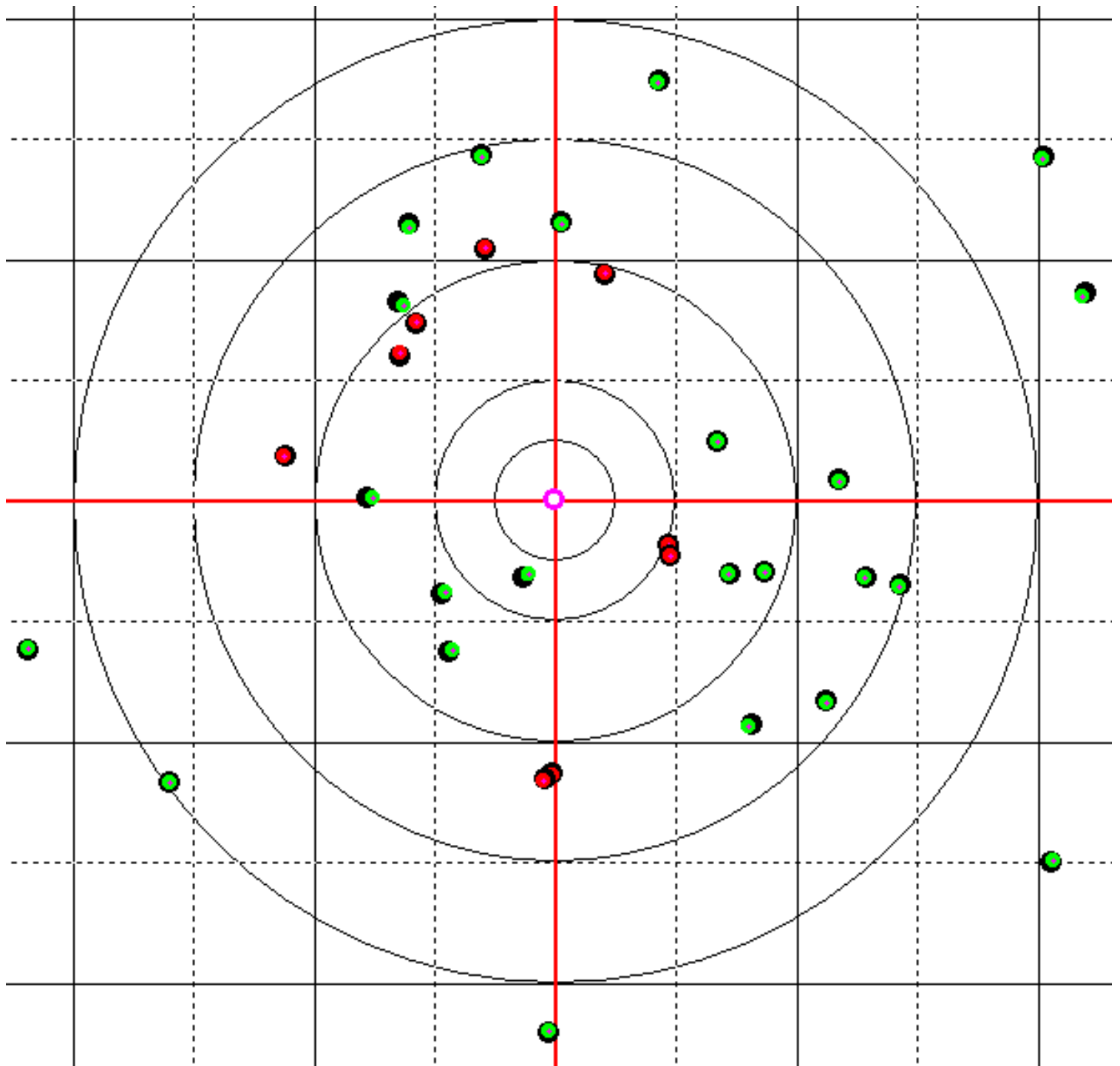
CENTRED ERRORS

1714 shots since refurbishment

X err	Y err	R err	Lin err
-0.88	0.82	0.99	1.21
3.85	3.07	-4.9	4.92
4.4	0.67	-4.39	4.45
-0.26	0.28	-0.1	0.38
0.71	0.24	0.47	0.75
-0.32	2.28	2.21	2.3
-1.79	-0.99	-1.22	2.05
-2.45	-1.68	0.04	2.97
-0.92	-0.63	0.78	1.12
4.93	2.29	-5.13	5.44
-1.03	-0.02	-0.94	1.03
-1.27	0.51	-1.36	1.37
-2.22	-0.6	-1.97	2.3
1.17	-0.02	0.93	1.17
-1.54	2.28	-2.12	2.75
2.33	1.96	-3	3.04
-1.35	-1.72	1.95	2.19
-0.55	0.99	-0.08	1.14
-0.23	2.51	-0.4	2.52
-0.8	-0.97	-0.89	1.26
-1.71	-0.78	-0.76	1.88
-2.78	-0.84	-2.45	2.9
-2.21	-3.15	-3.28	3.85
-1.61	-2.27	-2.66	2.78
0.32	2.86	1.43	2.88
0.44	1.37	-0.51	1.44
0.15	1.37	1.37	1.38
5.05	-4.3	-6.61	6.63
0.32	-1.12	-1.15	1.16
-0.43	0.28	0.51	0.52
-0.01	-3.16	-2.58	3.16
0.74	-1.6	-1.75	1.76



X, 6, 5, 4, 3 indicate Score or how far shot is from the centre.
BARS ARE REAL ERROR SIZE



Grid in minutes and half minutes (800 m)

1714 shots since refurbishment

Refurbishment takes maybe 30 minutes

HEXTA NO 6 CAIRNS 308 800m 30 SHOTS

d	----	----	----	----	UPRIGHT	RIGID	Vo (LR)	-----	Vcalc	Vo SD	Predicted Target V SD	----
800m	----	----	----	----	NO EFFECT	NO EFFECT	2940	-----	1501	10.6	8	----

X SPAN 916.38 mm
 Y SPAN 883.63 mm
 CENTRE FITTED REPORT
 X CENTRE SHIFT 0.70 mm
 Y CENTRE SHIFT 5.04 mm
 Show n Further from Centre 13
 Show n Closer to Centre 17
 SDx 1.25 mm
 SDy 1.05 mm
 MEAN (mm)SD (mm)
 LINEAR ERR 1.49 0.66

mean mean mean

Berger 155.5 Fullbore Projectile

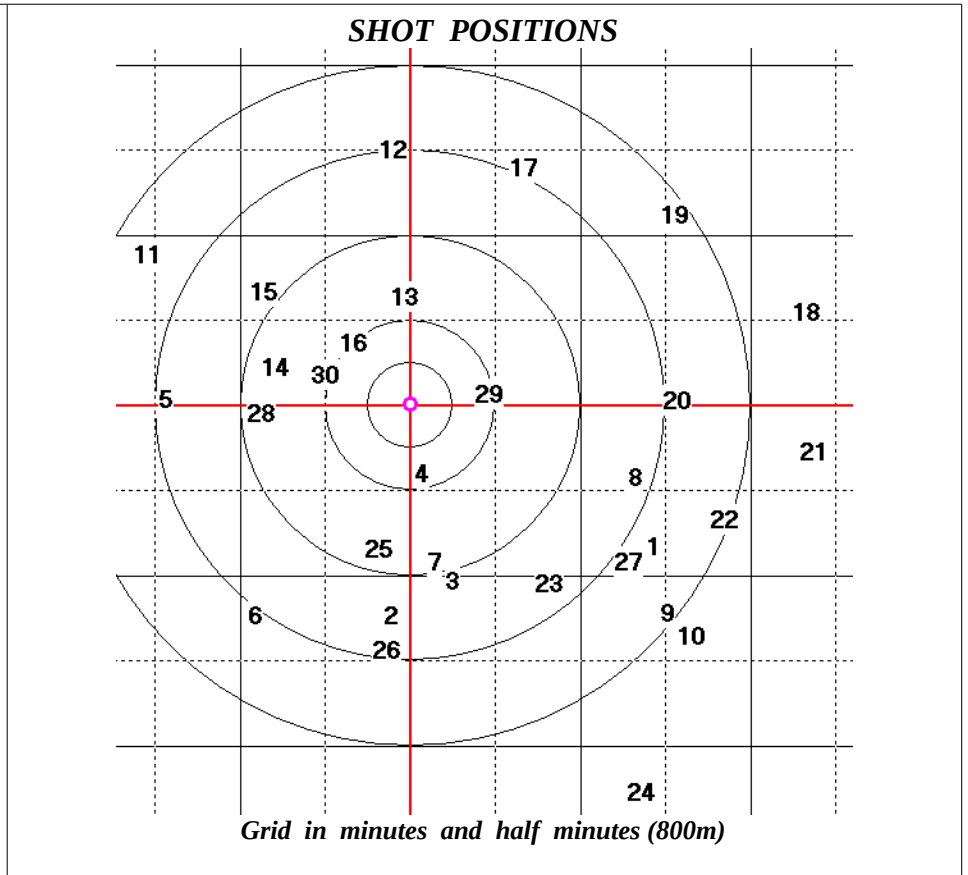
Temp 34 during firing

Fri Oct 27 2017

New Target 0 shots

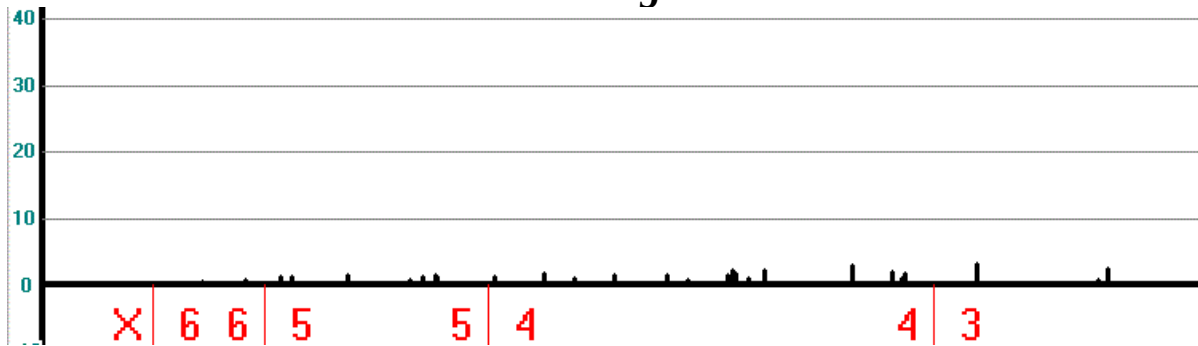
No Impact	Impact	Monitor	Monitor
X	Y	X	Y
1	331.78	-179.75	329.48 -186.37
2	-28.26	-273.16	-29.78 -277.45
3	56.42	-225.75	54.51 -230.87
4	13.21	-77.88	13.14 -82.58
5	-337.75	23.12	-338.25 18.95
6	-215.37	-274.21	-216.35 -279.61
7	32.16	-199.17	29.98 -204.78
8	307.56	-84.41	306.48 -89.16
9	351.52	-270.72	348.96 -276.71
10	382.54	-302.67	382.48 -310.79
11	-364.38	222.5	-363.35 219.8
12	-25.9	366.41	-24.35 361.9
13	-11.6	165.1	-10.74 159.99
14	-189.23	66.79	-189.43 62.89
15	-203.68	171.8	-202.79 167.63
16	-80.59	100.22	-80.02 95.67
17	153.43	342.19	153.83 337.19
18	542	144	543.83 138.64
19	360.96	276.16	361.18 271.49
20	364.28	22.54	362.29 16.19
21	552	-48.5	550.54 -54.12
22	428.82	-141.8	427.03 -148.24
23	188.3	-229.13	186.85 -232.92
24	315.4	-517.22	313.22 -521.29
25	-45.51	-182.35	-46.96 -187.79
26	-36.18	-320.68	-38.36 -326.46
27	296.62	-199.27	294.5 -205.02
28	-207.2	3.69	-207.83 -0.13
29	104.52	29.91	104.54 24.71
30	-119.77	56.21	-119.55 51.97

RAW MEASUREMENTS
in mm



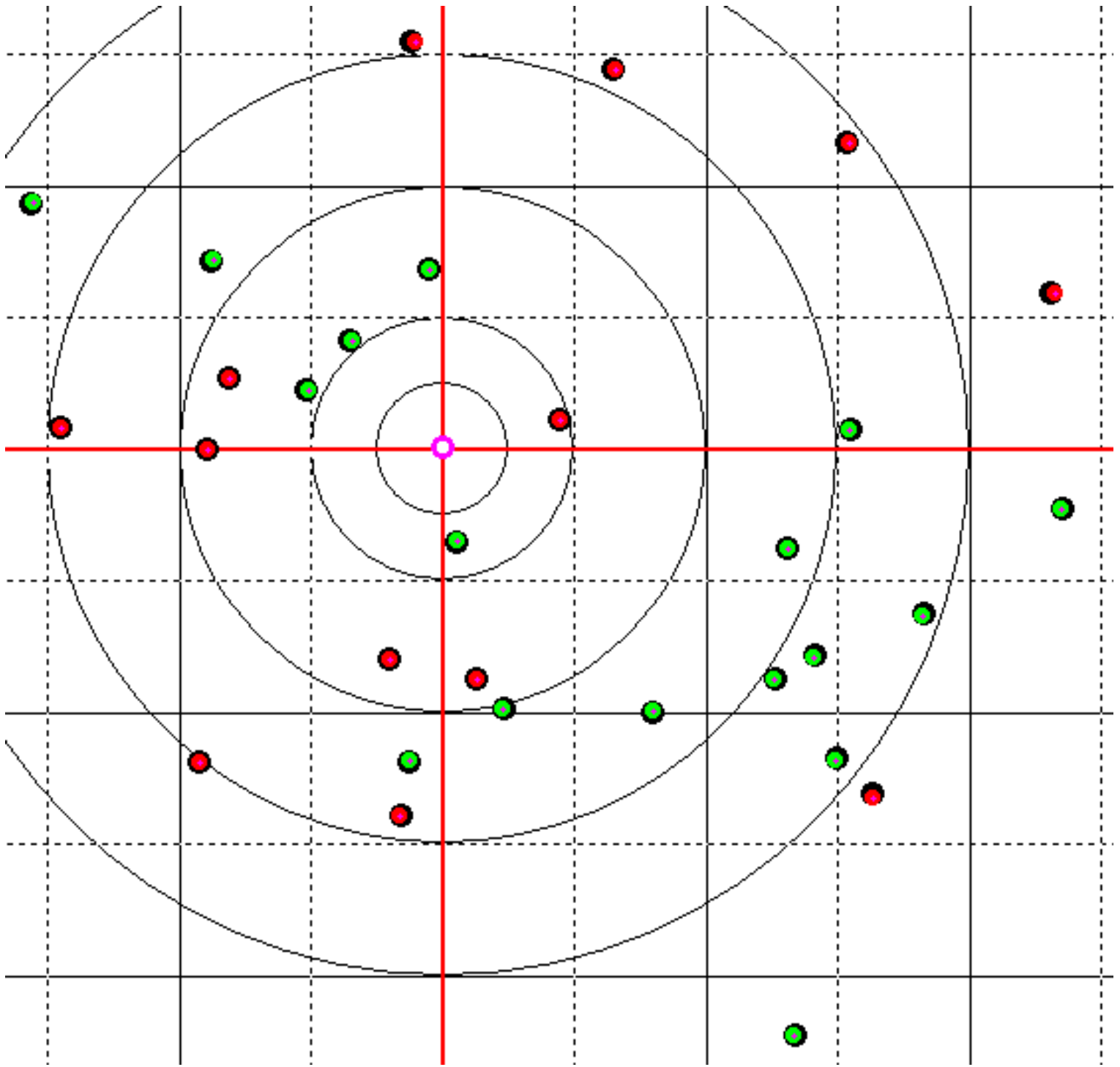
CENTRED ERRORS

New Target 0 shots



X err	Y err	R err	Lin err
-1.6	-1.58	-0.64	2.25
-0.82	0.75	-0.25	1.11
-1.21	-0.08	0.36	1.21
0.63	0.34	-0.7	0.72
0.2	0.87	-0.05	0.89
-0.28	-0.36	0.44	0.45
-1.48	-0.57	1.12	1.58
-0.38	0.29	-0.42	0.48
-1.86	-0.95	-0.78	2.09
0.64	-3.08	2.52	3.14
1.73	2.34	-0.29	2.91
2.25	0.53	-0.12	2.31
1.56	-0.07	-0.76	1.56
0.5	1.14	-0.03	1.25
1.59	0.87	-0.76	1.81
1.27	0.49	-0.65	1.36
1.1	0.04	0.2	1.1
2.53	-0.32	2.19	2.55
0.92	0.37	0.87	0.99
-1.29	-1.31	-1.59	1.84
-0.76	-0.58	-0.76	0.95
-1.09	-1.4	-0.68	1.77
-0.75	1.25	-1.46	1.46
-1.48	0.97	-1.51	1.77
-0.75	-0.4	0.82	0.85
-1.48	-0.74	1.32	1.65
-1.42	-0.71	-0.71	1.59
0.07	1.22	0.15	1.22
0.72	-0.16	-0.09	0.74
0.92	0.8	-0.47	1.22

X, 6, 5, 4, 3 indicate Score or how far shot is from the centre.
BARS ARE REAL ERROR SIZE



Grid in minutes and half minutes (800 m)

New Target 0 shots

Refurbishment takes maybe 30 minutes