

C6611810

MODEL 780TM M24

Model **SMS**TM

Action

Barrel Length

Capacity

Order No. **5715**

*Includes 1 in chamber.

Remington

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6611810.___0
FILE DATE AND TIME: 12/10/2004 07:54

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.040
The Average Y Centroid of the Five Target Set:	-0.146
The Average Point of Impact of the Five Target Set:	0.151
The Average Mean Radius of the Five Target Set:	0.566
The Distance from POA to Centroid Target #1:	0.161
The Distance from Centroid Target #2 to Centroid Target #1:	0.115
The Distance from Centroid Target #3 to Centroid Target #1:	0.326
The Distance from Centroid Target #4 to Centroid Target #1:	0.184
The Distance from Centroid Target #5 to Centroid Target #1:	0.138

SERIAL NUMBER: C6611810.___0

TARGET NUMBER: 1

FILE DATE: 12/10/2004

FILE TIME: 07:54

X CENTROID: -0.070

Y CENTROID: -0.144

POA TO CENTROID: 0.161

HORZ SPREAD: 1.486

VERT SPREAD: 0.691

GROUP SPREAD: 1.541

MIN RADIUS: 0.098

MAX RADIUS: 0.806

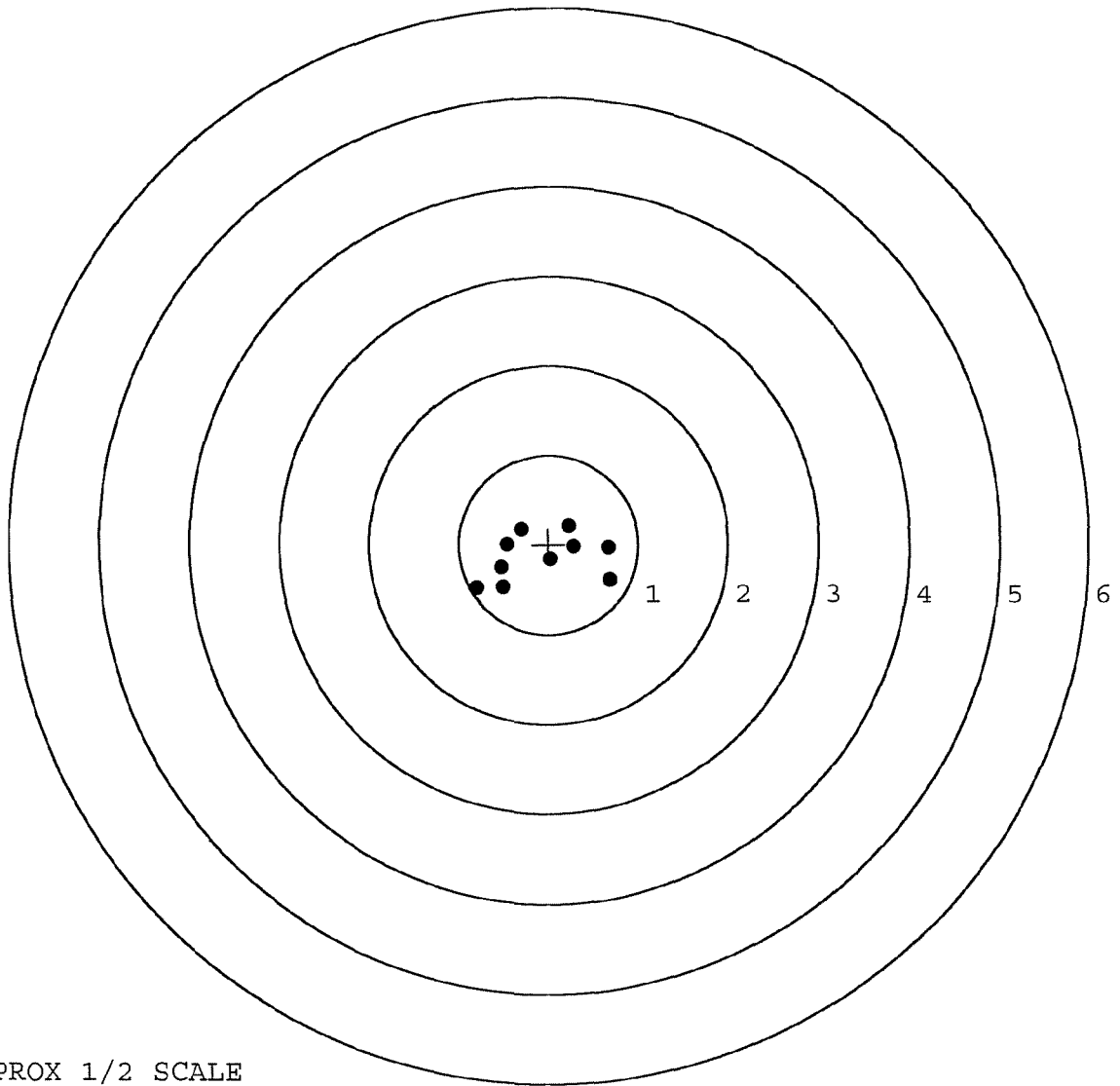
MEAN RADIUS: 0.512

IN 1 IN DIAMETER: 6

IN 2 IN DIAMETER: 10

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.685	-0.391
2:	0.673	-0.033
3:	0.285	-0.024
4:	0.230	0.207
5:	-0.302	0.174
6:	-0.461	0.005
7:	-0.531	-0.258
8:	-0.507	-0.475
9:	-0.801	-0.484
10:	0.026	-0.165

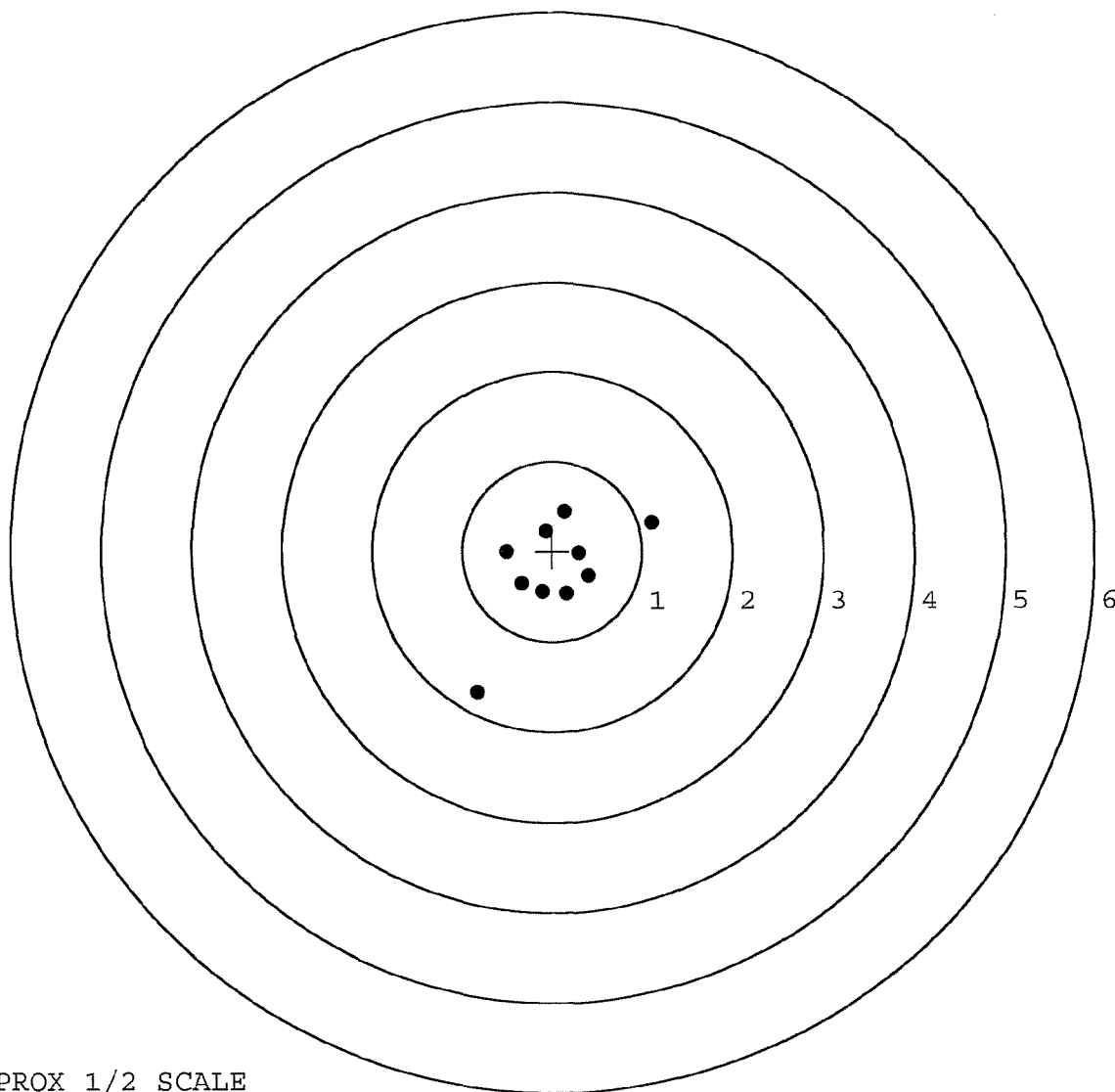


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611810. __0
TARGET NUMBER: 2
FILE DATE: 12/10/2004
FILE TIME: 07:54

X CENTROID: 0.022
Y CENTROID: -0.213
POA TO CENTROID: 0.214
HORZ SPREAD: 1.941
VERT SPREAD: 2.006
GROUP SPREAD: 2.704
MIN RADIUS: 0.273
MAX RADIUS: 1.599
MEAN RADIUS: 0.618
IN 1 IN DIAMETER: 6
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 9

POINT#	X	Y
1:	1.105	0.320
2:	-0.836	-1.562
3:	0.134	0.444
4:	-0.071	0.222
5:	0.300	-0.015
6:	0.405	-0.268
7:	-0.512	0.005
8:	-0.346	-0.356
9:	-0.115	-0.449
10:	0.160	-0.473



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611810.___0

TARGET NUMBER: 3

FILE DATE: 12/10/2004

FILE TIME: 07:54

X CENTROID: -0.198

Y CENTROID: 0.156

POA TO CENTROID: 0.252

HORZ SPREAD: 1.045

VERT SPREAD: 1.822

GROUP SPREAD: 1.831

MIN RADIUS: 0.040

MAX RADIUS: 1.189

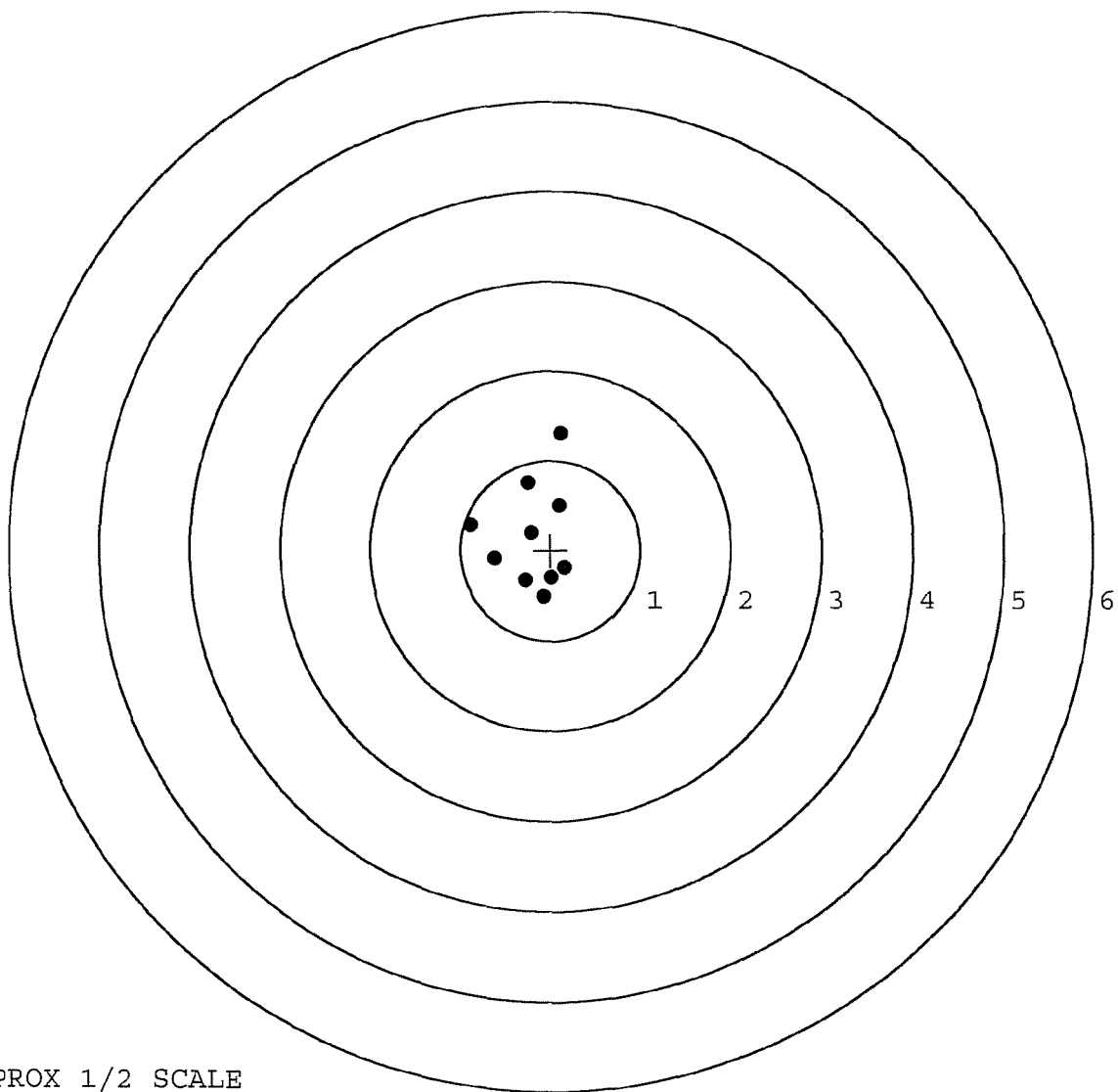
MEAN RADIUS: 0.566

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.110	1.304
2:	-0.254	0.750
3:	0.096	0.498
4:	-0.219	0.190
5:	-0.891	0.274
6:	-0.625	-0.099
7:	-0.283	-0.337
8:	0.007	-0.304
9:	0.154	-0.198
10:	-0.075	-0.518



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611810.___0

TARGET NUMBER: 4

FILE DATE: 12/10/2004

FILE TIME: 07:54

X CENTROID: 0.080

Y CENTROID: -0.251

POA TO CENTROID: 0.264

HORZ SPREAD: 1.642

VERT SPREAD: 1.561

GROUP SPREAD: 1.704

MIN RADIUS: 0.158

MAX RADIUS: 1.022

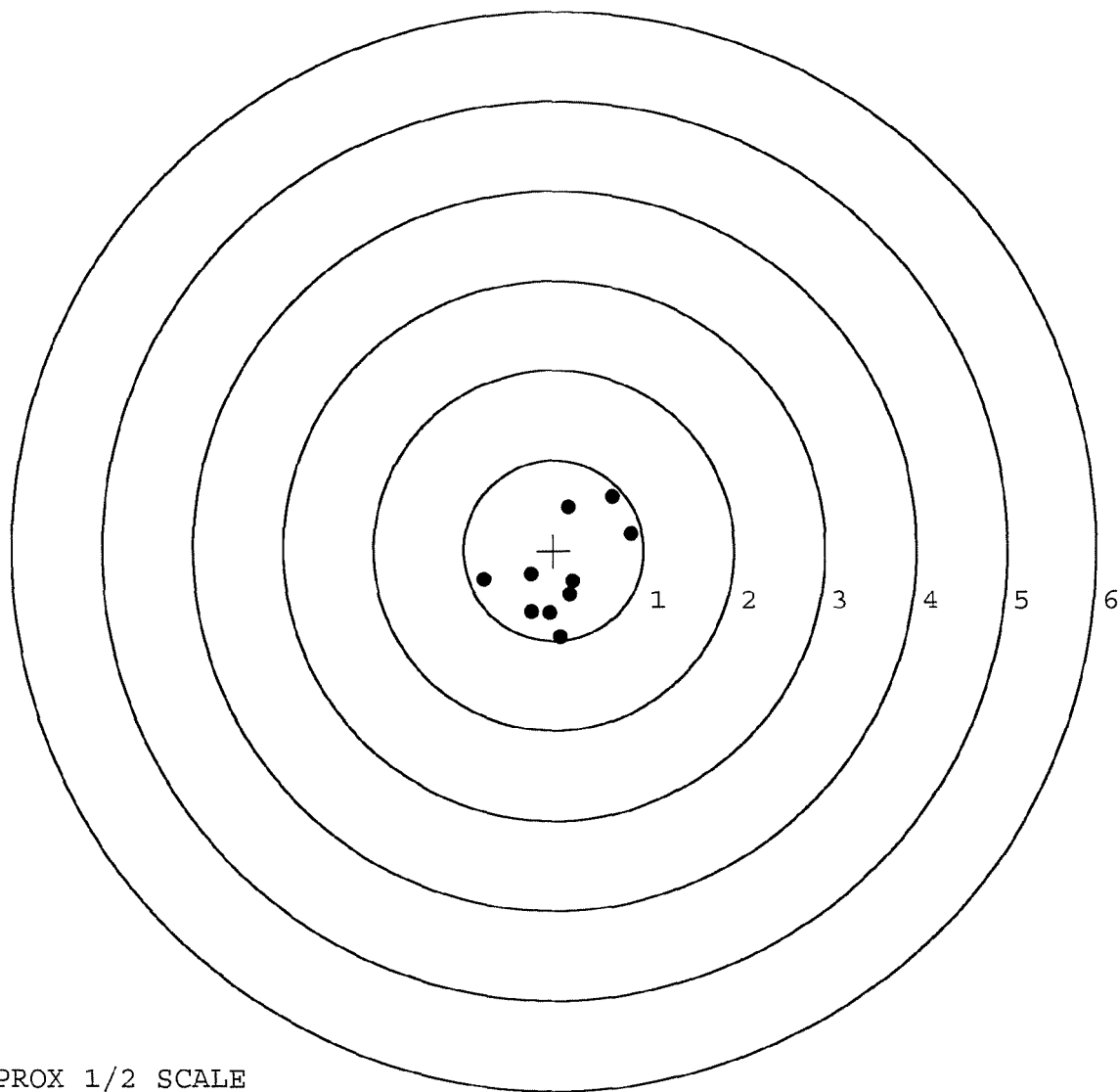
MEAN RADIUS: 0.601

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.863	0.193
2:	0.652	0.596
3:	0.160	0.485
4:	-0.259	-0.269
5:	-0.779	-0.330
6:	0.207	-0.346
7:	0.177	-0.490
8:	0.075	-0.965
9:	-0.250	-0.689
10:	-0.046	-0.699



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611810.___0

TARGET NUMBER: 5

FILE DATE: 12/10/2004

FILE TIME: 07:54

X CENTROID: -0.033

Y CENTROID: -0.277

POA TO CENTROID: 0.279

HORZ SPREAD: 0.719

VERT SPREAD: 1.807

GROUP SPREAD: 1.843

MIN RADIUS: 0.182

MAX RADIUS: 1.015

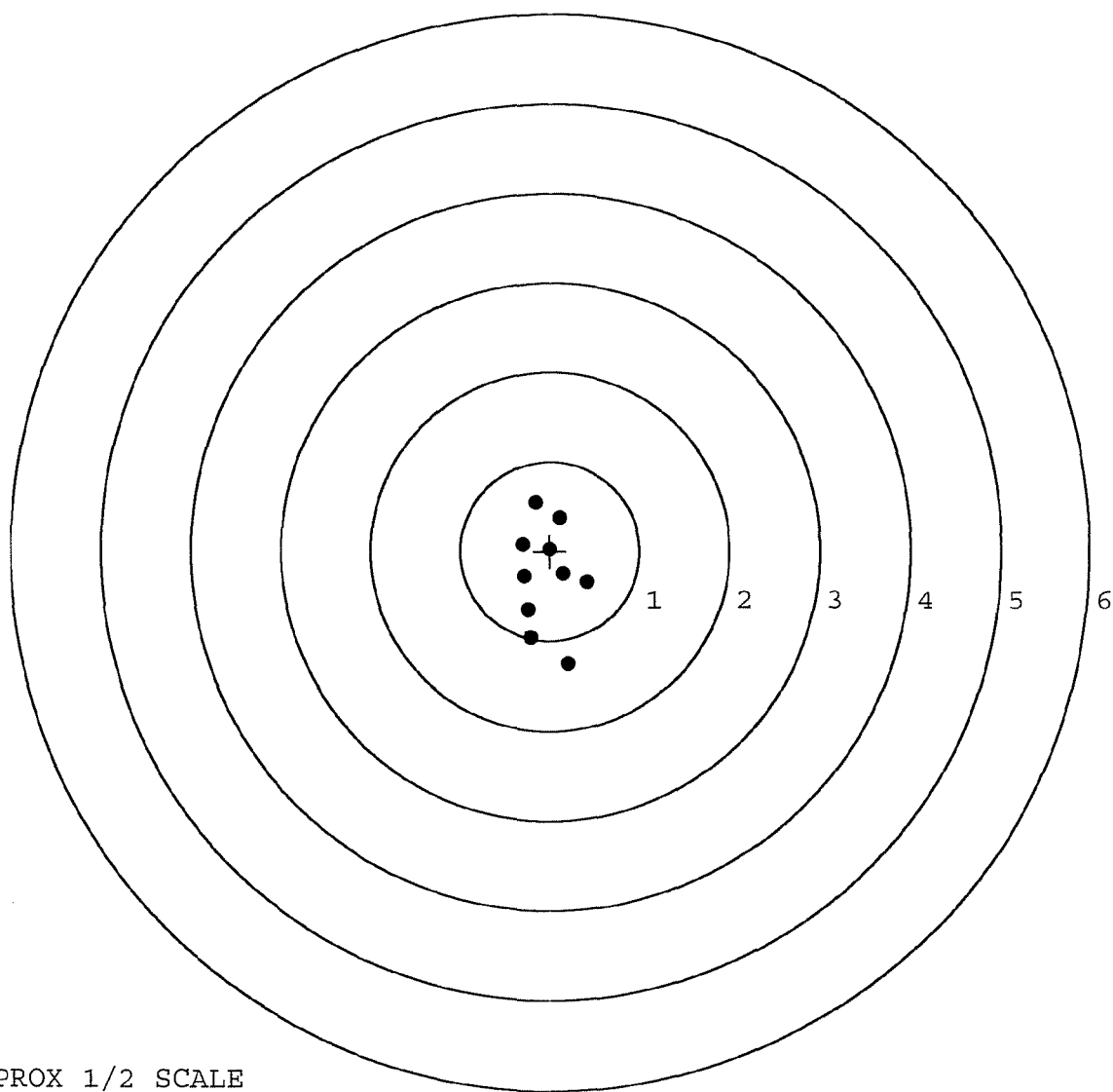
MEAN RADIUS: 0.530

IN 1 IN DIAMETER: 6

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.202	-1.265
2:	-0.215	-0.970
3:	-0.246	-0.657
4:	0.418	-0.352
5:	0.148	-0.256
6:	-0.301	0.076
7:	-0.291	-0.281
8:	0.113	0.368
9:	-0.161	0.542
10:	0.006	0.021



TARGET APPROX 1/2 SCALE

FINAL INSPECTION CHECKLIST M-24 REPAIRS
CONTRACT #: DAAE-20-02-D-0127

SERIAL # C6611810 INSPECTED BY: AC
DATE REC'D: 11-23-04 DATE RET'D: 12-10-04

ITEM

BARREL ASSEMBLY

☒ BARREL
☒ RECEIVER
☐ FRONT SIGHT BASE
☐ REAR SIGHT BASE
☐ SCREWS
☒ FINISH

SCOPE ASSEMBLY

☐ SCOPE
☐ SCOPE RINGS
☐ MOUNTING SCREWS
☐ MOUNTING BASE
☐ SCREWS
☐ FINISH
☐ CLARITY

ITEM

STOCK ASSEMBLY

☒ STOCK
☒ SLING AWIVEL STUDS
☒ ADJUSTABLE
☒ BUTT PLATE
☒ LOCK NUTS
☒ BARREL CLEARANCE
☒ COLOR / FINISH

SYSTEMS CASE

☐ SCOPE CASE
☐ IRON SIGHTS
☐ DEPLOYMENT KIT

TRIGGER ASSEMBLY

☒ SAFETY OPERATION
☒ RE-SET TO FACTORY SPECS

COMMENTS:

M-24 INSPECTION CHECKLIST
CONTRACT #: DAAE-20-02-D-0127

R & E NUMBER	88316		Supp # 4351
SERIAL NUMBER	C6611818		
LOG-IN DATE	11-23-04		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	11-29-04	RTL
560 A	RE-BARREL	12-1-04	RTL
B	DRILL AND TAP	NA	TRW
575	ASSEMBLE	12-2-04	RTL
600	PROOF	12-2-04	RTL
605	CHECK HEADSPACE	12-2-04	RTL
610	DIS-ASSEMBLE GUN	12-3-04	RTL
612	MAGNAFLUX	OPERATOR	NA
615	ROLLMARK CALIBER	12-3-04	SS
618	ROTO-BLAST	12-6-04	LB
620	APPLY COATINGS	12/7/04	HP
625 A	FINAL ASSEMBLY	12-9-04	RTL
B	TRIGGER PULL TEST	NA	
C	SAFETY "ON" FORCE		NA
D	SAFETY "OFF" FORCE		
E	FIRING PIN INDENT		
640	TARGET	12-10-04	TRW
655	FINAL INSPECT	12-10-04	AC
660	PACK	12-11-04	RA
		SHIP DATE	
		QAR INSPECTION DATE	

Remington®



VERY IMPORTANT:
Instruction Book
enclosed to assure
safe use of this
firearm.

MODEL 700™ H24

SERIAL NO.
C6611810

ORDER NO.
5716

MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat & Tm. Off, Marca Registrada Marque Deposee.

20



5716 C6611810

UPC



0 47700 25716 7

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

M2400036404

GKN

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C6611810

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock		1/22/91	KS
600	Proof		1/22/91	KS
607	Check Headspace		1/22/91	KS
610	Dis-assemble Gun		1/22/91	KS
612	Magnaflux Barrel Action		1/24/91	KR
	Magnaflux Bolt		11	KR
615	Rollmark Caliber		11	28.
617	Drill and Tap Sight Holes	2 2	91	LB
618	Polish Barrel <i>WBB</i>	2 2	91	WB
620	Apply Coatings (Barrel Action)		2-11-91	LB
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		2/13/91	KS
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		2/13/91	KS
	C) Inspect Ejector Hole for Chamfer		2/13/91	KS
	D) Oil Firing Pin Ass'y		2/13/91	KS
	E) Adjust Trigger Pull to Min Setting and Stake		2/14/91	<i>SM</i>

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	4	4	4			2/14/91	JH
	G) Safety Off Force	3	3	3			2/14/91	JH
	H) Trigger Pull Test & Retainability						2/14/91	JH
	I) Firing Pin Indent	.021	.021	.021			2/14/91	JH
	J) Assemble Stock						2/15/91	KL
	K) Assemble Swivel Studs						2-25-91	AC
	L) Attach Front and Rear Sight Assemblies						2/15/91	KL
	M) Iron Sight Alignment						2/15/91	KL
	N) Detach Front & Rear Sights & place in numbered container						2/15/91	KL
	O) Attach Scope to Rifle						2/15/91	KL
	P) Detach & Attach Scope 20 Times						2/15/91	KL
640	Gallery Target & Test						2-18-91	NF
	A) Time						"	NF
	B) Malfunctions						"	NF
	C) Pierced Primers						"	NF
	D) Optical Clarity of Scope						"	NF
645	Inspect for Live Ammo						2-18-91	NF
655	Final Inspection							
	A) Headspace						2-25-91	AC
	B) Trigger Pull	2.42	2.44	2.38	2.47	2.50	2/21/91	JH
	C) Function						2-25-91	AC
660	Pack						3-18-91	NF

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C6611810

DATE 2-14-91

TESTER JLL

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.51	2.19	2.30	2.42	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.23	2.28	2.24	2.44	
PULL #3	2.35	2.24	2.30	2.38	
PULL #4	2.30	2.24	2.28	2.47	
PULL #5	2.27	2.26	2.30	2.50	
TOTAL					
AVG.					

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.44	3.41		
PULL #2	3.26	3.28		
PULL #3	3.29	3.35		
PULL #4	3.46	3.10		
PULL #5	3.48	3.39		
TOTAL				
AVG.				

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.27	4.14		4.51
PULL #2	4.26	4.44		4.49
PULL #3	4.38	4.46		4.29
PULL #4	4.33	4.42		4.34
PULL #5	4.32	4.46		4.35
TOTAL				
AVG.				

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6611810
19 Feb 1991

CENTROIDAL DISTANCES

0 TO	1	.265092
1 TO	2	.427866
1 TO	3	.323595
1 TO	4	.422689
1 TO	5	.244008

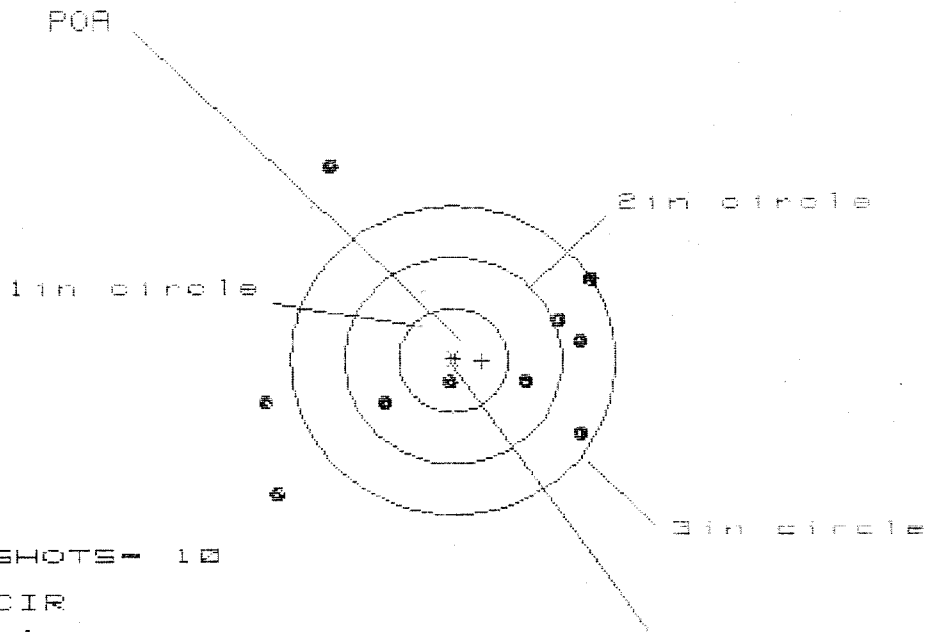
$\frac{J_4}{J_2}$ <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.1158
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.1216
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .167917
THE AMR FOR THIS RIFLE IS: 1.202

19 Feb 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C8811810

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1in = 1

2in = 3

3in = 6

HS= 2.987

VS= 3.194

GS= 3.620

CENTROID #

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.256	1.127	.985
MINIMUM X	-1.731	-1.860	-2.082
MAXIMUM Y	1.861	1.832	.891
MINIMUM Y	-1.333	-1.127	-.645
CENTROID X	-.265	-.136	.086
CENTROID Y	.007	-.199	-.058
POA TO CENTROID in.	.266	.241	.184
MIN RADIUS	.249	.150	.301
MEAN RADIUS	1.285	1.139	.976
MAX RADIUS	2.195	2.106	2.114
HORIZONTAL SPREAD	2.987	2.987	2.987
VERTICAL SPREAD	3.194	2.159	1.537
EXTREME SPREAD	3.620	3.620	3.241
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	3		
NUMBER IN THREE INCH CIRCLE =	6		

19 Feb 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6B11810

CENTERFIRE PATTERNS # 2

POA

1 in circle

2 in circle

3 in circle

OF SHOTS- 10

IN CIR

1 in = 1

2 in = 3

3 in = 8

HS= 2.084

VS= 3.853

GS= 4.025

CENTROID *

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.689	.625	.691
MINIMUM X	:	-1.395	-1.459	-1.393
MAXIMUM Y	:	1.402	1.130	1.267
MINIMUM Y	:	-2.451	-1.270	-1.129
CENTROID X	:	-.127	-.063	-.129
CENTROID Y	:	-.398	-.126	-.267
POA TO CENTROID in.	:	.418	.141	.297
MIN RADIUS	:	.458	.613	.543
MEAN RADIUS	:	1.253	1.092	1.064
MAX RADIUS	:	2.517	1.466	1.422
HORIZONTAL SPREAD	:	2.084	2.084	2.084
VERTICAL SPREAD	:	3.853	2.400	2.396
EXTREME SPREAD	:	4.025	2.467	2.467
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		3	
NUMBER IN THREE INCH CIRCLE	=		8	

19 Feb 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6611810

CENTERFIRE PATTERNS # 3

POA

1 in circle

2 in circle

3 in circle

CENTROID *

OF SHOTS - 10

IN CIR

1 in = 2

2 in = 3

3 in = 7

HS = 2.009

VS = 3.443

GS = 3.502

PATTERN #

SHOTS (BEST OF)

MAXIMUM X

MINIMUM X

MAXIMUM Y

MINIMUM Y

CENTROID X

CENTROID Y

POA TO CENTROID in.

MIN RADIUS

MEAN RADIUS

MAX RADIUS

HORIZONTAL SPREAD

VERTICAL SPREAD

EXTREME SPREAD

NUMBER IN ONE INCH CIRCLE

NUMBER IN TWO INCH CIRCLE

NUMBER IN THREE INCH CIRCLE

10

9

8

1.272

1.285

1.146

-1.617

-1.604

-1.443

1.442

1.220

1.036

-2.001

-1.474

-1.444

.030

.017

-.144

-.126

.096

.280

.130

.098

.315

.272

.163

.085

1.176

1.051

.907

2.004

1.956

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2.889

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2.589

3.443

2.694

2.480

3.502

3.502

2.590

2

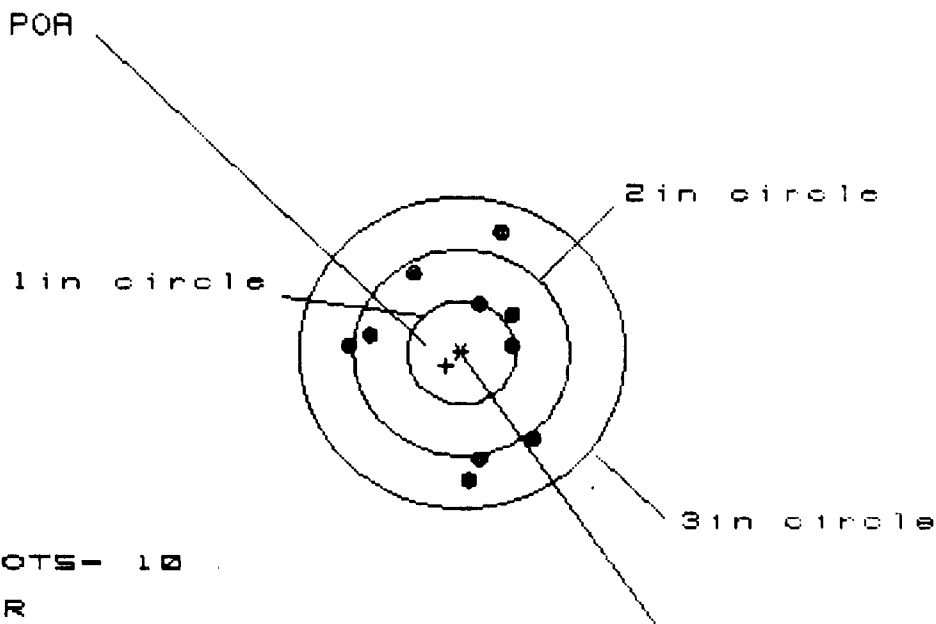
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19 Feb 1991

FILE:/PATTERNING/CENTERFIRE_PATT/CG611010

CENTERFIRE PATTERNS # 4



OF SHOTS- 10

IN CIR

1in = 2

2in = 5

3in = 10

HS= 1.626

VS= 2.365

GS= 2.391

CENTROID *

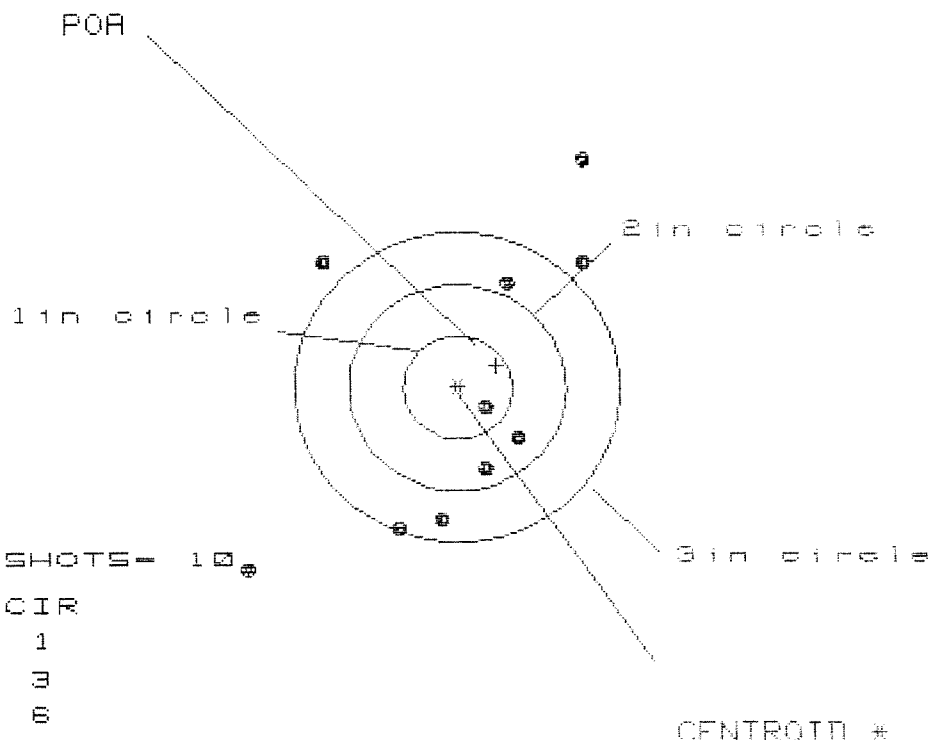
PATTERN #	:	1	2	3
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.612	.618	.668
MINIMUM X	:	-1.014	-1.008	-.958
MAXIMUM Y	:	1.126	.989	.786
MINIMUM Y	:	-1.239	-1.156	-1.033
CENTROID X	:	.140	.134	.084
CENTROID Y	:	.128	.265	.142
POA TO CENTROID in.	:	.189	.297	.165
MIN RADIUS	:	.438	.365	.489
MEAN RADIUS	:	.876	.811	.793
MAX RADIUS	:	1.240	1.177	1.104
HORIZONTAL SPREAD	:	1.626	1.626	1.626
VERTICAL SPREAD	:	2.365	2.145	1.819
EXTREME SPREAD	:	2.391	2.155	1.990

NUMBER IN ONE INCH CIRCLE = 2
 NUMBER IN TWO INCH CIRCLE = 5
 NUMBER IN THREE INCH CIRCLE = 10

19 Feb 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6611810

CENTERFIRE PATTERNS # 5



OF SHOTS - 10

IN CIR

1in = 1

2in = 3

3in = 6

HS = 3.035

VS = 3.925

GS = 4.951

PATTERN #

5

SHOTS (BEST OF)

10

9

8

MAXIMUM X

1.141

.930

1.044

MINIMUM X

-1.894

-1.453

-1.339

MAXIMUM Y

2.176

1.981

1.319

MINIMUM Y

-1.749

-1.528

-1.280

CENTROID X

-.357

-.146

-.260

CENTROID Y

-.219

-.024

-.272

POA TO CENTROID in.

.418

.148

.376

MIN RADIUS

.340

.390

.230

MEAN RADIUS

1.418

1.281

1.113

MAX RADIUS

2.579

2.181

1.879

VERTICAL SPREAD :	3.925	3.509	2.599
EXTREME SPREAD :	4.951	3.886	3.076
NUMBER IN ONE INCH CIRCLE =		1	
NUMBER IN TWO INCH CIRCLE =		3	
NUMBER IN THREE INCH CIRCLE =		6	