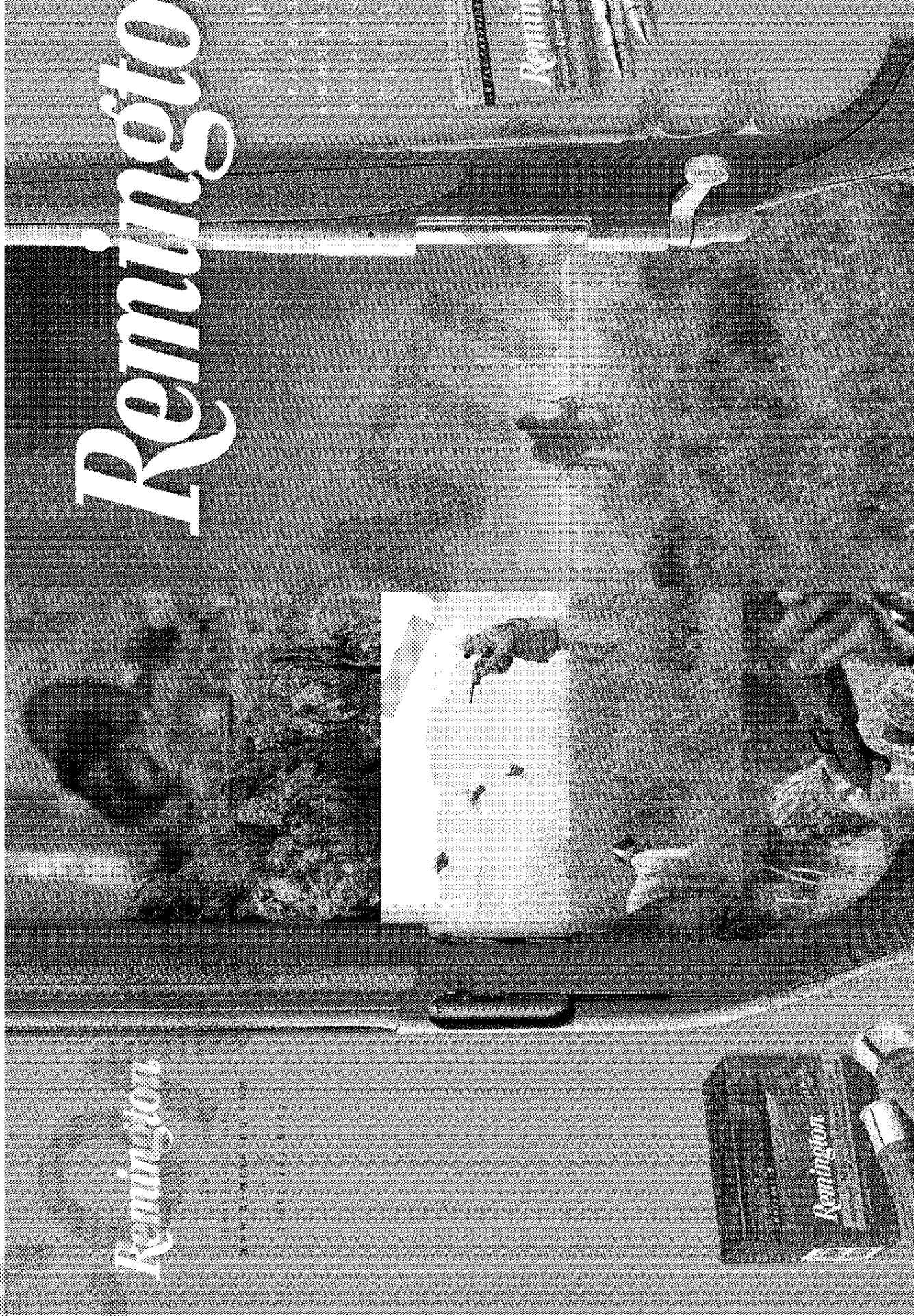


# Remington



Remington

Subject to Protective Order - Williams v. Remington

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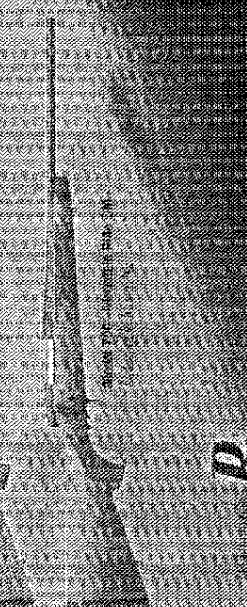


## MODEL 700™ SPECIALTY

### LIGHTWEIGHT CONSTRUCTION - EXHIBITS OUT-PERFORMANCE

High energy accuracy high velocity. Here you see built by precisionally skilled Remington-Union gunsmiths. The Model 700 is a Remington-Union gunsmith's masterpiece. It's built with the finest materials and the most advanced manufacturing techniques. The Model 700 is a Remington-Union gunsmith's masterpiece. It's built with the finest materials and the most advanced manufacturing techniques. The Model 700 is a Remington-Union gunsmith's masterpiece. It's built with the finest materials and the most advanced manufacturing techniques.

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Model 700

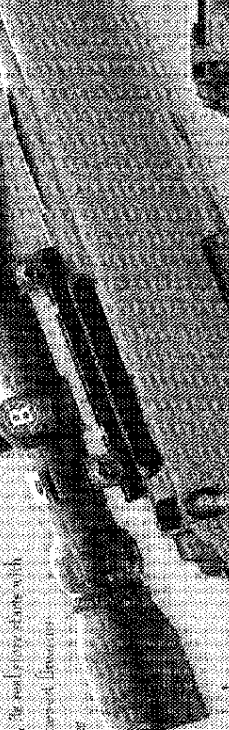
## MODEL 710™

### LEGENDARY ACCURACY REMARKABLE VALUE

Mark the Model 710 as the Model 700's precision counterpart. It's built with the finest materials and the most advanced manufacturing techniques. The Model 710 is a Remington-Union gunsmith's masterpiece. It's built with the finest materials and the most advanced manufacturing techniques.

The Model 710 is a Remington-Union gunsmith's masterpiece. It's built with the finest materials and the most advanced manufacturing techniques. The Model 710 is a Remington-Union gunsmith's masterpiece. It's built with the finest materials and the most advanced manufacturing techniques.

Model 710



Model 710

Model 710

Model 710

Model 710

Model 710

Model 710

| MODEL 700™ SPECIALTY RIFLE DIMENSIONS / AVERAGE WEIGHTS |        |        |        |        |        |        |        |        |        |
|---------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| TYPE                                                    | Length | Weight | Barrel | Weight | Barrel | Weight | Barrel | Weight | Barrel |
| 1000                                                    | 42"    | 12.5   | 24"    | 12.5   | 24"    | 12.5   | 24"    | 12.5   | 24"    |
| 1000                                                    | 42"    | 12.5   | 24"    | 12.5   | 24"    | 12.5   | 24"    | 12.5   | 24"    |
| 1000                                                    | 42"    | 12.5   | 24"    | 12.5   | 24"    | 12.5   | 24"    | 12.5   | 24"    |
| 1000                                                    | 42"    | 12.5   | 24"    | 12.5   | 24"    | 12.5   | 24"    | 12.5   | 24"    |
| 1000                                                    | 42"    | 12.5   | 24"    | 12.5   | 24"    | 12.5   | 24"    | 12.5   | 24"    |
| 1000                                                    | 42"    | 12.5   | 24"    | 12.5   | 24"    | 12.5   | 24"    | 12.5   | 24"    |
| 1000                                                    | 42"    | 12.5   | 24"    | 12.5   | 24"    | 12.5   | 24"    | 12.5   | 24"    |
| 1000                                                    | 42"    | 12.5   | 24"    | 12.5   | 24"    | 12.5   | 24"    | 12.5   | 24"    |
| 1000                                                    | 42"    | 12.5   | 24"    | 12.5   | 24"    | 12.5   | 24"    | 12.5   | 24"    |
| 1000                                                    | 42"    | 12.5   | 24"    | 12.5   | 24"    | 12.5   | 24"    | 12.5   | 24"    |

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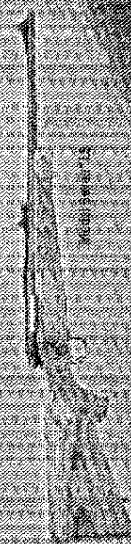
Model 700 is a Remington-Union gunsmith's masterpiece. It's built with the finest materials and the most advanced manufacturing techniques.

## MODEL SEVEN™

### NEW THINER COMPACT INTO IMPACT

Model Seven™, with a system which allows for a small, compact, and easy to handle rifle, has been designed to give you the best of both worlds. The Model Seven™ is a compact, lightweight rifle that can be used in a variety of ways. It can be used as a hunting rifle, a target rifle, or a competition rifle. The Model Seven™ is a true all-around rifle that can be used in a variety of ways.

Model Seven™ Magnum, with its fast, powerful 30-06 Remington-Union Carbide cartridge, is a true all-around rifle. It can be used as a hunting rifle, a target rifle, or a competition rifle. The Model Seven™ Magnum is a true all-around rifle that can be used in a variety of ways.



## MODEL 673™

### THE GUIDE'S FORMULA: MOVE FAST HIT HARD

In the mid 60's Remington introduced the Remington Model 600™ Magnum, a rifle designed to become legendary with many big game guides. The rifle has now been redesigned to become a modern version of its classic Model 600™. The Model 673™ Carbine Rifle. Based on the Model Seven™ action, this swift-handling rifle features a 22" magnum contour "bird" with distinct mechanical steel ventilated aluminum sights. It is the definition of "big" target equipment. But to consider the Model 673™ as merely a performance oriented rifle is to sell it short. Model 673™ is a two-tone wide-rifled, laminated, weather resistant straight stock. Stock with deep, cut checkering and swivel throat. It is an extremely handsome gun. The Remington Model 673™ has been designed to move fast, hit hard.

### MODEL SEVEN™ FEATURES

- 22" compact design
- 10.5 lb. weight
- 10.5 lb. weight
- 10.5 lb. weight
- 10.5 lb. weight
- 10.5 lb. weight
- 10.5 lb. weight
- 10.5 lb. weight
- 10.5 lb. weight
- 10.5 lb. weight

Model Seven™ Magnum, with its fast, powerful 30-06 Remington-Union Carbide cartridge, is a true all-around rifle. It can be used as a hunting rifle, a target rifle, or a competition rifle. The Model Seven™ Magnum is a true all-around rifle that can be used in a variety of ways.

### MODEL 673™ FEATURES

- 22" compact design
- 10.5 lb. weight
- 10.5 lb. weight
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- 10.5 lb. weight
- 10.5 lb. weight
- 10.5 lb. weight
- 10.5 lb. weight
- 10.5 lb. weight

| MODEL SEVEN™ RIFLE DIMENSIONS |     | AVERAGE WEIGHTS |          |
|-------------------------------|-----|-----------------|----------|
| Model Seven™                  | 22" | 7 1/2"          | 10.5 lb. |
| Model Seven™ Magnum           | 22" | 7 1/2"          | 10.5 lb. |
| Model Seven™                  | 22" | 7 1/2"          | 10.5 lb. |
| Model Seven™                  | 22" | 7 1/2"          | 10.5 lb. |
| Model Seven™                  | 22" | 7 1/2"          | 10.5 lb. |
| Model Seven™                  | 22" | 7 1/2"          | 10.5 lb. |
| Model Seven™                  | 22" | 7 1/2"          | 10.5 lb. |
| Model Seven™                  | 22" | 7 1/2"          | 10.5 lb. |
| Model Seven™                  | 22" | 7 1/2"          | 10.5 lb. |
| Model Seven™                  | 22" | 7 1/2"          | 10.5 lb. |



# MODEL 504™ & 504-T™

## WINNING RIFLE COMPETITIVE ATTITUDE

The 504™ and 504-T™ rifles are then chosen by the finest shooters in the world for their competitive edge. The 504™ and 504-T™ rifles are the only rifles in the world that have been chosen by the finest shooters in the world for their competitive edge.

There is something about the 504™ and 504-T™ rifles that makes them the most accurate rifles in the world. The 504™ and 504-T™ rifles are the only rifles in the world that have been chosen by the finest shooters in the world for their competitive edge.

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The 504™ and 504-T™ rifles are the only rifles in the world that have been chosen by the finest shooters in the world for their competitive edge.

## MODEL 504™ FEATURES

• 24" barrel with 1:10 twist

• 10.5 lb. weight

• 10.5 lb. weight

• 10.5 lb. weight

• 10.5 lb. weight

• 10.5 lb. weight

• 10.5 lb. weight

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• 10.5 lb. weight

• 10.5 lb. weight

## new RIFLE 2003

Model 504

Model 504-T

Model 504

Model 504-T

Model 504

Model 504-T

Model 504

Model 504-T

Model 504

Model 504-T

Model 504

Model 504-T

Model 504

Model 504-T

Model 504

Model 504-T

Model 504

Model 504-T

Model 504

| MODEL 504 & 504-T RIFLE DIMENSIONS / AVERAGE WEIGHTS |           |             |           |             |           |             |           |             |           |
|------------------------------------------------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
|                                                      | Model 504 | Model 504-T | Model 504 | Model 504-T | Model 504 | Model 504-T | Model 504 | Model 504-T | Model 504 |
| Length                                               | 42.0"     | 42.0"       | 42.0"     | 42.0"       | 42.0"     | 42.0"       | 42.0"     | 42.0"       | 42.0"     |
| Weight                                               | 10.5 lb.  | 10.5 lb.    | 10.5 lb.  | 10.5 lb.    | 10.5 lb.  | 10.5 lb.    | 10.5 lb.  | 10.5 lb.    | 10.5 lb.  |
| Barrel                                               | 24.0"     | 24.0"       | 24.0"     | 24.0"       | 24.0"     | 24.0"       | 24.0"     | 24.0"       | 24.0"     |
| Twist                                                | 1:10      | 1:10        | 1:10      | 1:10        | 1:10      | 1:10        | 1:10      | 1:10        | 1:10      |
| Magazine                                             | 5         | 5           | 5         | 5           | 5         | 5           | 5         | 5           | 5         |
| Capacity                                             | 5         | 5           | 5         | 5           | 5         | 5           | 5         | 5           | 5         |
| Caliber                                              | .243      | .243        | .243      | .243        | .243      | .243        | .243      | .243        | .243      |
| Velocity                                             | 3,000     | 3,000       | 3,000     | 3,000       | 3,000     | 3,000       | 3,000     | 3,000       | 3,000     |
| Energy                                               | 1,500     | 1,500       | 1,500     | 1,500       | 1,500     | 1,500       | 1,500     | 1,500       | 1,500     |
| Accuracy                                             | 1/2"      | 1/2"        | 1/2"      | 1/2"        | 1/2"      | 1/2"        | 1/2"      | 1/2"        | 1/2"      |
| Price                                                | \$1,200   | \$1,200     | \$1,200   | \$1,200     | \$1,200   | \$1,200     | \$1,200   | \$1,200     | \$1,200   |

## MODEL 597 RIFLE DIMENSIONS / AVERAGE WEIGHTS

|          | Model 597 | Model 597-T | Model 597 | Model 597-T | Model 597 | Model 597-T | Model 597 | Model 597-T | Model 597 |
|----------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| Length   | 42.0"     | 42.0"       | 42.0"     | 42.0"       | 42.0"     | 42.0"       | 42.0"     | 42.0"       | 42.0"     |
| Weight   | 10.5 lb.  | 10.5 lb.    | 10.5 lb.  | 10.5 lb.    | 10.5 lb.  | 10.5 lb.    | 10.5 lb.  | 10.5 lb.    | 10.5 lb.  |
| Barrel   | 24.0"     | 24.0"       | 24.0"     | 24.0"       | 24.0"     | 24.0"       | 24.0"     | 24.0"       | 24.0"     |
| Twist    | 1:10      | 1:10        | 1:10      | 1:10        | 1:10      | 1:10        | 1:10      | 1:10        | 1:10      |
| Magazine | 5         | 5           | 5         | 5           | 5         | 5           | 5         | 5           | 5         |
| Capacity | 5         | 5           | 5         | 5           | 5         | 5           | 5         | 5           | 5         |
| Caliber  | .243      | .243        | .243      | .243        | .243      | .243        | .243      | .243        | .243      |
| Velocity | 3,000     | 3,000       | 3,000     | 3,000       | 3,000     | 3,000       | 3,000     | 3,000       | 3,000     |
| Energy   | 1,500     | 1,500       | 1,500     | 1,500       | 1,500     | 1,500       | 1,500     | 1,500       | 1,500     |
| Accuracy | 1/2"      | 1/2"        | 1/2"      | 1/2"        | 1/2"      | 1/2"        | 1/2"      | 1/2"        | 1/2"      |
| Price    | \$1,200   | \$1,200     | \$1,200   | \$1,200     | \$1,200   | \$1,200     | \$1,200   | \$1,200     | \$1,200   |

## MODEL 597™

### WHERE TECHNOLOGY MEETS CRAFTSMANSHIP

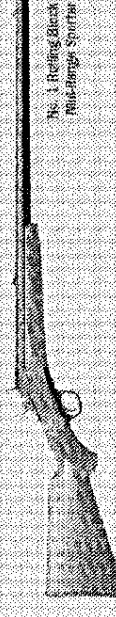
The Model 597™ is only the most advanced air-cooled rifle ever built, and the first head-on to the subsonic rifle technology in 25 years. The difference is in our proprietary ball-puller system, which features a unique set of two tools and guide rails for better visibility, loading reliability and greater air-to-air accuracy.

Of course, we didn't stop there. The ball-puller and the Model 597™ all have our exclusive ball-puller system, which is a unique set of two tools and guide rails for better visibility, loading reliability and greater air-to-air accuracy. Of course, we didn't stop there. The ball-puller and the Model 597™ all have our exclusive ball-puller system, which is a unique set of two tools and guide rails for better visibility, loading reliability and greater air-to-air accuracy.

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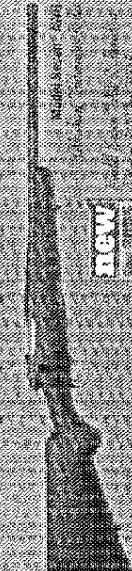
Model 7007  
Customs & Excise



Model 700-449



Model 700-450  
See us for the details



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WORLD UNIVERSITY CONFERENCE FOR

U.S. Patent 5,615,995, November 19, 1997

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |

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三、研究

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KEVIN O'NEILL

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**Table 1**



## MODEL 11-87™ SPORTSMAN®

AS GOOD AS IT IS TO BE A SPORTSMAN, IT'S EVEN BETTER TO HUNT WITH ONE.

These Remington® Super Magnum® rifles are the most powerful in the world. They are the only rifles in the world that can take down the most dangerous game. They are the only rifles in the world that can take down the most dangerous game. They are the only rifles in the world that can take down the most dangerous game.

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**new**  
for 2005

Remington® Super Magnum® rifles are the most powerful in the world. They are the only rifles in the world that can take down the most dangerous game. They are the only rifles in the world that can take down the most dangerous game.

### MODEL 11-87™ SPORTSMAN® SERIES FEATURES:

- Remington® Super Magnum® rifles are the most powerful in the world. They are the only rifles in the world that can take down the most dangerous game. They are the only rifles in the world that can take down the most dangerous game.
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Model 11-87™ Sportsman®  
Super Magnum®  
12 Gauge



Model 11-87™  
Super Magnum®  
12 Gauge

Model 11-87™  
Super Magnum®  
12 Gauge

Model 11-87™  
Super Magnum®  
12 Gauge

Model 11-87™  
Super Magnum®  
12 Gauge

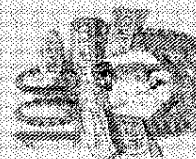
Model 11-87™  
Super Magnum®  
12 Gauge

## MODEL 11-87™ SUPER MAGNUM™

LEGENDARY REMINGTON® RELIABILITY  
WITH 3 1/2" CAPABILITY

If you could only have one shotgun, many would choose the Model 11-87™ Super Magnum™. It's the last of its kind. It can handle just about any game in any field or type. The unmatched versatility of the Model 11-87™ Super Magnum™ is the result of its unique engineering system of its patented gas-operated action. And this work is so lasting a very special 3 1/2" action.

This limited edition Model 11-87™ Super Magnum™ is the only 3 1/2" Super Magnum™ in the world. It's the only 3 1/2" Super Magnum™ in the world. It's the only 3 1/2" Super Magnum™ in the world.



### MODEL 11-87™ SUPER MAGNUM™ FEATURES:

- 3 1/2" Super Magnum™ rifles are the most powerful in the world. They are the only rifles in the world that can take down the most dangerous game. They are the only rifles in the world that can take down the most dangerous game.
- They are the only rifles in the world that can take down the most dangerous game. They are the only rifles in the world that can take down the most dangerous game. They are the only rifles in the world that can take down the most dangerous game.
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Model 11-87™ Super Magnum®  
12 Gauge

Model 11-87™ Super Magnum®  
12 Gauge

Model 11-87™ Super Magnum®  
12 Gauge

Model 11-87™ Super Magnum®  
12 Gauge

Model 11-87™ Super Magnum®  
12 Gauge

Model 11-87™ Super Magnum®  
12 Gauge







# YOUTH FIREARMS

## INVESTING IN OUR FUTURE

We are the premier manufacturer of youth firearms in the world. Our youth firearms are designed to provide a safe and fun introduction to the sport of hunting and target shooting. Our youth firearms are built with safety in mind, featuring built-in safety features that prevent accidental discharge. Our youth firearms are also designed to be easy to use, with simple controls and intuitive ergonomics. Our youth firearms are built with high-quality materials and precision craftsmanship, ensuring they will last for years to come. Our youth firearms are the perfect choice for young hunters and target shooters alike.

Our youth firearms are built with safety in mind, featuring built-in safety features that prevent accidental discharge. Our youth firearms are also designed to be easy to use, with simple controls and intuitive ergonomics. Our youth firearms are built with high-quality materials and precision craftsmanship, ensuring they will last for years to come. Our youth firearms are the perfect choice for young hunters and target shooters alike.

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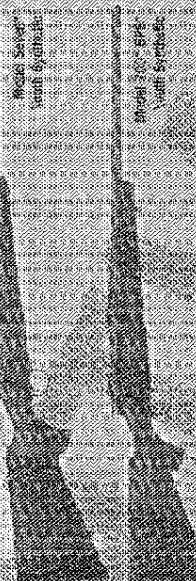
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**new**  
for 2005

Model 870 Express JR

SCOTT'S TIPPLERS PRESENT  
A Remington-Union Carbide Corporation  
Product  
The Model 870 Express JR is a  
12-gauge, semi-automatic, pump  
action shotgun. It features a  
30" barrel, a 2 1/2" chamber, and a  
10-shot magazine. It is built with  
high-quality materials and precision  
craftsmanship, ensuring it will last  
for years to come. It is the perfect  
choice for young hunters and target  
shooters alike.



Model 870 Express JR  
Model 870 Express JR Youth System  
Model 870 Express JR Youth System

| Model                             | Barrel | Chamber | Magazine | Action         | Material     |
|-----------------------------------|--------|---------|----------|----------------|--------------|
| Model 870 Express JR              | 30"    | 2 1/2"  | 10       | Semi-Automatic | Carbon Steel |
| Model 870 Express JR Youth System | 28"    | 2 1/2"  | 10       | Semi-Automatic | Carbon Steel |
| Model 870 Express JR Youth System | 28"    | 2 1/2"  | 10       | Semi-Automatic | Carbon Steel |

## SHOTGUN DIMENSIONS / AVERAGE WEIGHTS

| Model                             | Barrel | Chamber | Magazine | Action         | Material     |
|-----------------------------------|--------|---------|----------|----------------|--------------|
| Model 870 Express JR              | 30"    | 2 1/2"  | 10       | Semi-Automatic | Carbon Steel |
| Model 870 Express JR Youth System | 28"    | 2 1/2"  | 10       | Semi-Automatic | Carbon Steel |
| Model 870 Express JR Youth System | 28"    | 2 1/2"  | 10       | Semi-Automatic | Carbon Steel |

**new**  
for 2005



**new**  
for 2005



**new**  
for 2005



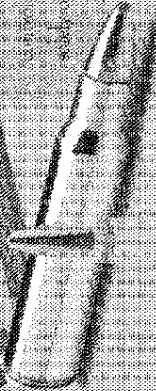
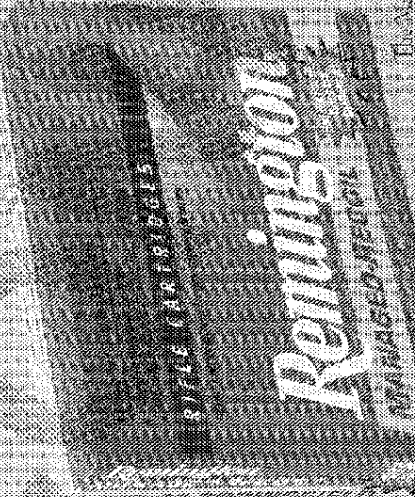
## MODEL 870 EXPRESS JR SHOTGUN FEATURES

- Built-in safety features prevent accidental discharge.
- 12-gauge, semi-automatic, pump action.
- 30" barrel, 2 1/2" chamber, 10-shot magazine.
- Built with high-quality materials and precision craftsmanship.
- Perfect choice for young hunters and target shooters.

## MODEL 870 EXPRESS JR YOUTH SHOTGUN FEATURES

- Built-in safety features prevent accidental discharge.
- 12-gauge, semi-automatic, pump action.
- 28" barrel, 2 1/2" chamber, 10-shot magazine.
- Built with high-quality materials and precision craftsmanship.
- Perfect choice for young hunters and target shooters.

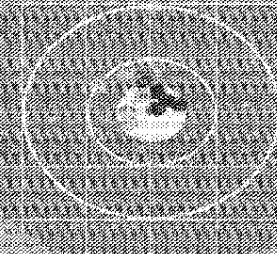
# MANAGED-RECOIL™



- 100% effective in the field, with 100% of the power of any other slug.
- 100% effective in the field, with 100% of the power of any other slug.
- 100% effective in the field, with 100% of the power of any other slug.
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Proven effective in the field, with 100% of the power of any other slug.

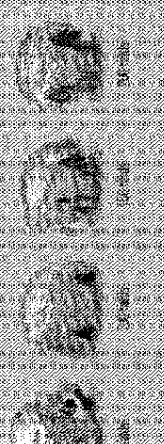
## NO SCREW READJUSTMENT NECESSARY



**REDUCE RECOIL TO IMPROVE YOUR CHANCES OF SUCCESS IN THE FIELD.**

At Remington, we know the best way to reduce recoil is to use the best technology available. That's why we've developed the Managed-Recoil™ system, which uses a special recoil-reducing device to absorb the shock of firing. This means you can shoot with more confidence and accuracy, even in the most demanding conditions.

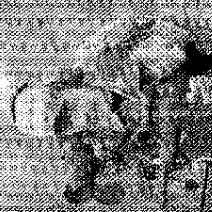
The Managed-Recoil™ system is a revolutionary new way to reduce recoil. It uses a special recoil-reducing device to absorb the shock of firing. This means you can shoot with more confidence and accuracy, even in the most demanding conditions.



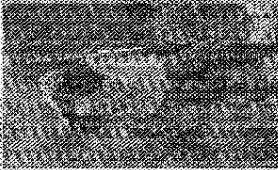
## MANAGED-RECOIL™ APPLICATIONS



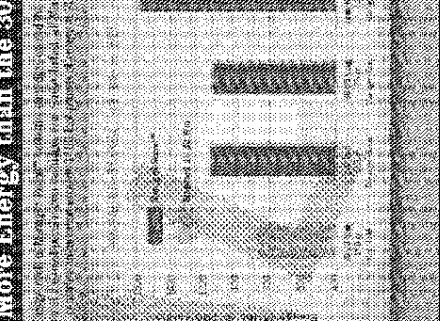
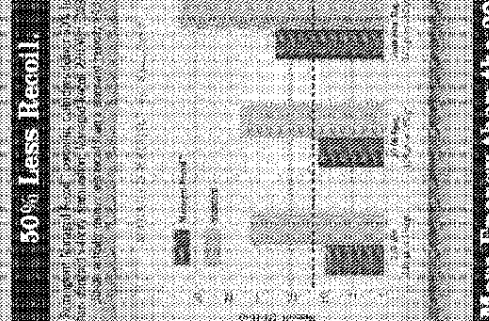
Managed-Recoil™ rifles are ideal for hunting in the field. They provide the same power and accuracy as other rifles, but with significantly less recoil. This means you can shoot with more confidence and accuracy, even in the most demanding conditions.



Managed-Recoil™ rifles are also ideal for use in the field. They provide the same power and accuracy as other rifles, but with significantly less recoil. This means you can shoot with more confidence and accuracy, even in the most demanding conditions.



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| REMINGTON MANAGED-RECOIL-CENTERFIRE RIFLE CARTRIDGES |        |        |          |        |        |      |      |      |      |      |      |
|------------------------------------------------------|--------|--------|----------|--------|--------|------|------|------|------|------|------|
| Cartridge                                            | Length | Weight | Velocity | Energy | Recoil | Drop | Drop | Drop | Drop | Drop | Drop |
| 7.62x39mm                                            | 2.12   | 15.7   | 2700     | 1500   | 1.5    | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  |
| 7.62x54mm                                            | 2.40   | 18.7   | 2700     | 1500   | 1.5    | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  |
| 7.62x63mm                                            | 2.60   | 20.7   | 2700     | 1500   | 1.5    | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  |
| 7.62x75mm                                            | 2.75   | 22.7   | 2700     | 1500   | 1.5    | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  |
| 7.62x76mm                                            | 2.75   | 22.7   | 2700     | 1500   | 1.5    | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  |
| 7.62x77mm                                            | 2.75   | 22.7   | 2700     | 1500   | 1.5    | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  |
| 7.62x78mm                                            | 2.75   | 22.7   | 2700     | 1500   | 1.5    | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  |
| 7.62x79mm                                            | 2.75   | 22.7   | 2700     | 1500   | 1.5    | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  |
| 7.62x80mm                                            | 2.75   | 22.7   | 2700     | 1500   | 1.5    | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  |
| 7.62x81mm                                            | 2.75   | 22.7   | 2700     | 1500   | 1.5    | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  |
| 7.62x82mm                                            | 2.75   | 22.7   | 2700     | 1500   | 1.5    | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  |

MANAGED-RECOIL™ SLUGGER® RIFLED SLUG LOADS

MANAGED-RECOIL™ BUCKHAMMER® LEAD SLUGS



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Smaller, lighter, rounded built to expand  
a dialyzer over a wide range of  
serum urea levels.

**THE MOST ACCURATE RAPID EXPANSION  
POLYMER-TIPPED BULLET AVAILABLE**

Heckler & Koch's precision-ground polymer tip provides better accuracy and more energy in target penetration and expansion. The new, we've simulated our standard design (model 334 Pogue). The slight design of the XPS-XST

**Accuracy** ✓ Superior values  
in penetration  
at 1000 YARDS

**Reliability** ✓ Reliability

Heidi's hair is a perfect combination of perfect the perfect  
color, texture, and more, giving you a perfect of all  
the perfect. The perfect we have perfect. Perfect of all  
the perfect. The perfect of all the perfect.

become a reality if the proceeds get to insurance companies, where an insurance "broker" can become a reality if the proceeds get to insurance companies, where an insurance "broker" can

**THE MOST RELIABLE CROSS-MEMBERED SUBCOMPACT CROSSED-ENGINEERED MADE IN THE U.S.A.** **1.4L 1600 cc** 1600 cc engine with 100 hp and 130 ft. lbs. torque. 5-speed manual transmission. 4-wheel disc brakes. 1600 cc engine with 100 hp and 130 ft. lbs. torque. 5-speed manual transmission. 4-wheel disc brakes.

**MADE IN THE U.S.A.** **1.4L 1600 cc** 1600 cc engine with 100 hp and 130 ft. lbs. torque. 5-speed manual transmission. 4-wheel disc brakes. 1600 cc engine with 100 hp and 130 ft. lbs. torque. 5-speed manual transmission. 4-wheel disc brakes.

**1.4L 1600 cc** 1600 cc engine with 100 hp and 130 ft. lbs. torque. 5-speed manual transmission. 4-wheel disc brakes. 1600 cc engine with 100 hp and 130 ft. lbs. torque. 5-speed manual transmission. 4-wheel disc brakes.

| PREMIER A-FRAME |           |
|-----------------|-----------|
| Model           | Price     |
| 1.4L 1600 cc    | \$10,995  |
| 1.4L 1600 cc    | \$11,995  |
| 1.4L 1600 cc    | \$12,995  |
| 1.4L 1600 cc    | \$13,995  |
| 1.4L 1600 cc    | \$14,995  |
| 1.4L 1600 cc    | \$15,995  |
| 1.4L 1600 cc    | \$16,995  |
| 1.4L 1600 cc    | \$17,995  |
| 1.4L 1600 cc    | \$18,995  |
| 1.4L 1600 cc    | \$19,995  |
| 1.4L 1600 cc    | \$20,995  |
| 1.4L 1600 cc    | \$21,995  |
| 1.4L 1600 cc    | \$22,995  |
| 1.4L 1600 cc    | \$23,995  |
| 1.4L 1600 cc    | \$24,995  |
| 1.4L 1600 cc    | \$25,995  |
| 1.4L 1600 cc    | \$26,995  |
| 1.4L 1600 cc    | \$27,995  |
| 1.4L 1600 cc    | \$28,995  |
| 1.4L 1600 cc    | \$29,995  |
| 1.4L 1600 cc    | \$30,995  |
| 1.4L 1600 cc    | \$31,995  |
| 1.4L 1600 cc    | \$32,995  |
| 1.4L 1600 cc    | \$33,995  |
| 1.4L 1600 cc    | \$34,995  |
| 1.4L 1600 cc    | \$35,995  |
| 1.4L 1600 cc    | \$36,995  |
| 1.4L 1600 cc    | \$37,995  |
| 1.4L 1600 cc    | \$38,995  |
| 1.4L 1600 cc    | \$39,995  |
| 1.4L 1600 cc    | \$40,995  |
| 1.4L 1600 cc    | \$41,995  |
| 1.4L 1600 cc    | \$42,995  |
| 1.4L 1600 cc    | \$43,995  |
| 1.4L 1600 cc    | \$44,995  |
| 1.4L 1600 cc    | \$45,995  |
| 1.4L 1600 cc    | \$46,995  |
| 1.4L 1600 cc    | \$47,995  |
| 1.4L 1600 cc    | \$48,995  |
| 1.4L 1600 cc    | \$49,995  |
| 1.4L 1600 cc    | \$50,995  |
| 1.4L 1600 cc    | \$51,995  |
| 1.4L 1600 cc    | \$52,995  |
| 1.4L 1600 cc    | \$53,995  |
| 1.4L 1600 cc    | \$54,995  |
| 1.4L 1600 cc    | \$55,995  |
| 1.4L 1600 cc    | \$56,995  |
| 1.4L 1600 cc    | \$57,995  |
| 1.4L 1600 cc    | \$58,995  |
| 1.4L 1600 cc    | \$59,995  |
| 1.4L 1600 cc    | \$60,995  |
| 1.4L 1600 cc    | \$61,995  |
| 1.4L 1600 cc    | \$62,995  |
| 1.4L 1600 cc    | \$63,995  |
| 1.4L 1600 cc    | \$64,995  |
| 1.4L 1600 cc    | \$65,995  |
| 1.4L 1600 cc    | \$66,995  |
| 1.4L 1600 cc    | \$67,995  |
| 1.4L 1600 cc    | \$68,995  |
| 1.4L 1600 cc    | \$69,995  |
| 1.4L 1600 cc    | \$70,995  |
| 1.4L 1600 cc    | \$71,995  |
| 1.4L 1600 cc    | \$72,995  |
| 1.4L 1600 cc    | \$73,995  |
| 1.4L 1600 cc    | \$74,995  |
| 1.4L 1600 cc    | \$75,995  |
| 1.4L 1600 cc    | \$76,995  |
| 1.4L 1600 cc    | \$77,995  |
| 1.4L 1600 cc    | \$78,995  |
| 1.4L 1600 cc    | \$79,995  |
| 1.4L 1600 cc    | \$80,995  |
| 1.4L 1600 cc    | \$81,995  |
| 1.4L 1600 cc    | \$82,995  |
| 1.4L 1600 cc    | \$83,995  |
| 1.4L 1600 cc    | \$84,995  |
| 1.4L 1600 cc    | \$85,995  |
| 1.4L 1600 cc    | \$86,995  |
| 1.4L 1600 cc    | \$87,995  |
| 1.4L 1600 cc    | \$88,995  |
| 1.4L 1600 cc    | \$89,995  |
| 1.4L 1600 cc    | \$90,995  |
| 1.4L 1600 cc    | \$91,995  |
| 1.4L 1600 cc    | \$92,995  |
| 1.4L 1600 cc    | \$93,995  |
| 1.4L 1600 cc    | \$94,995  |
| 1.4L 1600 cc    | \$95,995  |
| 1.4L 1600 cc    | \$96,995  |
| 1.4L 1600 cc    | \$97,995  |
| 1.4L 1600 cc    | \$98,995  |
| 1.4L 1600 cc    | \$99,995  |
| 1.4L 1600 cc    | \$100,995 |

The 1.4L 1600 cc engine with 100 hp and 130 ft. lbs. torque. 5-speed manual transmission. 4-wheel disc brakes. 1600 cc engine with 100 hp and 130 ft. lbs. torque. 5-speed manual transmission. 4-wheel disc brakes.

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# The World's Best-Selling Contest Writing Book



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**Figure 6**

Figure 6 shows a series of four panels illustrating the effect of the parameter  $\alpha$  on the distribution of the test statistic  $T_n$ . The panels are labeled (a), (b), (c), and (d). Each panel displays a histogram of the test statistic values, with the x-axis ranging from -10 to 10 and the y-axis representing frequency. The distributions are centered around zero, with the spread increasing as  $\alpha$  increases from 0.1 to 0.9.

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The concentration of the *Agrobacterium* suspension was 10<sup>6</sup> cells/ml (○), 10<sup>7</sup> cells/ml (□), 10<sup>8</sup> cells/ml (△), 10<sup>9</sup> cells/ml (◇), and 10<sup>10</sup> cells/ml (×). The error bars represent the standard deviation of three independent experiments.

1. *Pharmaceuticals*  
 2. *Medical Devices*  
 3. *Biotechnology*  
 4. *Healthcare Services*  
 5. *Medical Research*  
 6. *Health Insurance*  
 7. *Medical Education*  
 8. *Healthcare Policy*  
 9. *Medical Ethics*  
 10. *Healthcare Economics*  
 11. *Medical Law*  
 12. *Healthcare Management*  
 13. *Medical History*  
 14. *Healthcare Technology*  
 15. *Medical Innovation*  
 16. *Healthcare Reform*  
 17. *Medical Regulation*  
 18. *Healthcare Quality*  
 19. *Medical Safety*  
 20. *Healthcare Access*  
 21. *Medical Research Funding*  
 22. *Healthcare Policy Analysis*  
 23. *Medical Ethics Case Studies*  
 24. *Healthcare Economics Research*  
 25. *Medical Law Cases*  
 26. *Healthcare Management Practices*  
 27. *Medical History Research*  
 28. *Healthcare Technology Trends*  
 29. *Medical Innovation Challenges*  
 30. *Healthcare Reform Initiatives*  
 31. *Medical Regulation Frameworks*  
 32. *Healthcare Quality Improvement*  
 33. *Medical Safety Protocols*  
 34. *Healthcare Access Barriers*  
 35. *Medical Research Funding Sources*  
 36. *Healthcare Policy Implementation*  
 37. *Medical Ethics Education*  
 38. *Healthcare Economics Models*  
 39. *Medical Law Legislation*  
 40. *Healthcare Management Systems*  
 41. *Medical History Milestones*  
 42. *Healthcare Technology Applications*  
 43. *Medical Innovation Drivers*  
 44. *Healthcare Reform Outcomes*  
 45. *Medical Regulation Enforcement*  
 46. *Healthcare Quality Metrics*  
 47. *Medical Safety Incidents*  
 48. *Healthcare Access Solutions*  
 49. *Medical Research Funding Allocation*  
 50. *Healthcare Policy Evaluation*  
 51. *Medical Ethics Debates*  
 52. *Healthcare Economics Data*  
 53. *Medical Law Cases Analysis*  
 54. *Healthcare Management Best Practices*  
 55. *Medical History Research Findings*  
 56. *Healthcare Technology Innovations*  
 57. *Medical Innovation Challenges Solutions*  
 58. *Healthcare Reform Policy Analysis*  
 59. *Medical Regulation Frameworks Development*  
 60. *Healthcare Quality Improvement Strategies*  
 61. *Medical Safety Protocols Implementation*  
 62. *Healthcare Access Barriers Identification*  
 63. *Medical Research Funding Sources Identification*  
 64. *Healthcare Policy Implementation Challenges*  
 65. *Medical Ethics Education Programs*  
 66. *Healthcare Economics Models Development*  
 67. *Medical Law Legislation Drafting*  
 68. *Healthcare Management Systems Design*  
 69. *Medical History Milestones Identification*  
 70. *Healthcare Technology Applications Development*  
 71. *Medical Innovation Drivers Identification*  
 72. *Healthcare Reform Outcomes Evaluation*  
 73. *Medical Regulation Enforcement Mechanisms*  
 74. *Healthcare Quality Metrics Development*  
 75. *Medical Safety Incidents Investigation*  
 76. *Healthcare Access Solutions Development*  
 77. *Medical Research Funding Allocation Mechanisms*  
 78. *Healthcare Policy Evaluation Mechanisms*  
 79. *Medical Ethics Debates Resolution*  
 80. *Healthcare Economics Data Collection*  
 81. *Medical Law Cases Analysis Mechanisms*  
 82. *Healthcare Management Best Practices Identification*  
 83. *Medical History Research Findings Analysis*  
 84. *Healthcare Technology Innovations Identification*  
 85. *Medical Innovation Challenges Solutions Identification*  
 86. *Healthcare Reform Policy Analysis Mechanisms*  
 87. *Medical Regulation Frameworks Development Mechanisms*  
 88. *Healthcare Quality Improvement Strategies Identification*  
 89. *Medical Safety Protocols Implementation Mechanisms*  
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 94. *Healthcare Economics Models Development Mechanisms*  
 95. *Medical Law Legislation Drafting Mechanisms*  
 96. *Healthcare Management Systems Design Mechanisms*  
 97. *Medical History Milestones Identification Mechanisms*  
 98. *Healthcare Technology Applications Development Mechanisms*  
 99. *Medical Innovation Drivers Identification Mechanisms*  
 100. *Healthcare Reform Outcomes Evaluation Mechanisms*

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1000

1. 1995年12月29日，全国人大常委会通过《中华人民共和国立法法》，自1996年7月1日起施行。该法对立法权限、立法程序、法律解释、立法监督等方面作出了明确规定，是我国立法领域的一部基本法律。

1. The first step is to identify the problem or question that needs to be addressed. This involves understanding the context and the specific requirements of the task.

[illegible][illegible]

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Our Handgun Rifle Cartridges are the most accurate, most powerful, most reliable in 12-Hour and 24-Hour tests.

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# HEVI-SHOT® WATERFOWL

TECHNICALLY SPEAKING, YOU'LL KILL  
MORE BIRDS WITH FEWER SHELLS.

1. *Phragmites australis* (Cav.) Trin. ex Steud.

The first of these is the fact that the  
 world is not a homogeneous whole,  
 but is divided into many different  
 parts, each of which has its own  
 characteristics and its own history.  
 The second is the fact that the  
 world is not a static entity, but is  
 constantly changing and evolving.  
 The third is the fact that the world  
 is not a simple machine, but is a  
 complex system of many interacting  
 parts.

assumes a wide base of support and a mission - broad-based, a better term, - strong national and social base, that is at least 75 per cent of the population, and a clear, shared public law to work by. It is a law that is not a constitution, nor even a common code of ethics, but a public law that is shared and common to all citizens.

PREMIER  
HEAVY SHOT FEATURES

- **an official** - official (noun) or **officially** (adverb)
- **to be a part of** - participate (verb) or **participate** (noun)
- **to be a member of** - **member** (noun) or **membership** (noun)
- **to be a member of** - **membership** (noun)

PREMIER FIFTY SHOT.  
FIFTY WITH WINGED OIL  
FIFTY MAGNUM FIFTY.

With a revenue of \$70 for every ton, this is the fastest growing business in the world. The market is still growing, and the demand for the product is still growing. The market is still growing, and the demand for the product is still growing.

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**NITRO-STEEL<sup>TM</sup> WATER FOWL**

SUPERIOR PERFORMANCE  
CAN'T AFFORD TO MISS

Looking for premium performance with premium prices? Nitro-Steel™ delivers. Nitro-Steel™ means lower charges and higher capacity means lower charges and faster, shatter-resistant tool bits for waterhead. Nitro-Steel™ delivers demand for greater bending and is zinc-plated for corrosion. Available in a complete line of pay loads and high velocity, Nitro-Steel™ has the performance you need.

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| Year | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 |
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# SPORTSMAN<sup>TM</sup> HI-SPEED<sup>SM</sup> STEEL

# UPLAND

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[illegible]

**PEASANT LOADS.** For the first time in its history, the U.S. Census Bureau has selected one of its poorest counties to study. Upjohn, in Michigan's Lower Peninsula, is the poorest of the 100 poorest counties in the nation. For many reasons, and for many years, the county has been poor.

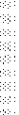

  
 used and kept in motion.  
 deliver the same energy  
 as the original.

EXTRA PRESS EXTRA LONG RANGE

small game hunter across the family because our Hoppers like others the best balance of speed and performance.

Available in a broad selection of loadings—our 12-gauge is 40 lbs.—with shot sizes ranging from #3 to the new double to 6.

**PHREASANT LOADS.** The renowned Shearwater brand is available in new high base offering Shearwater High Base Phasent software and balance of velocity and payload to create rearsched patterns, while its lower model is built



**LEAD GAME LOADS.**  
 Bands recording in half

LEAD GAMB LOADS. Bright-striking shot-hells.





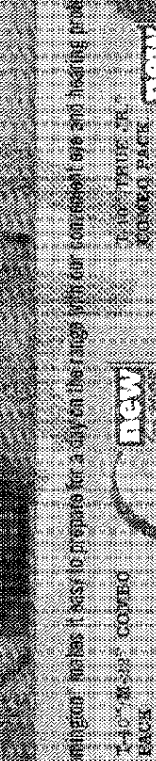
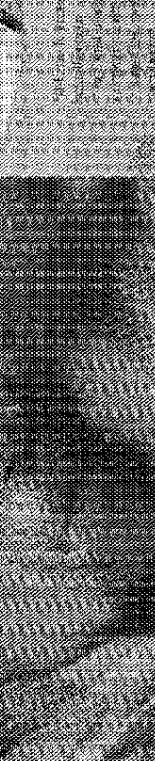
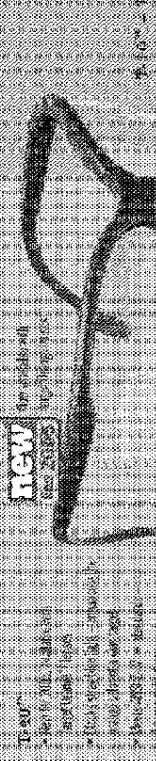
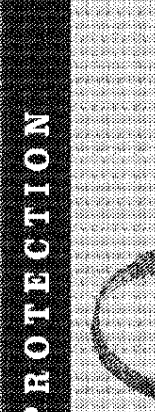
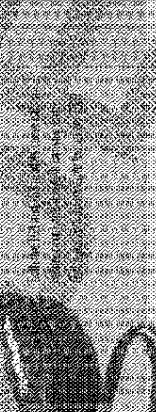
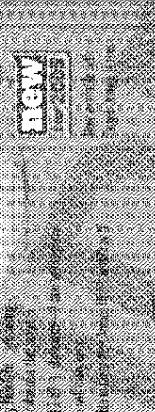


**new**

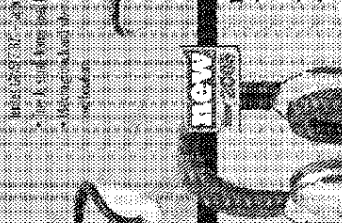
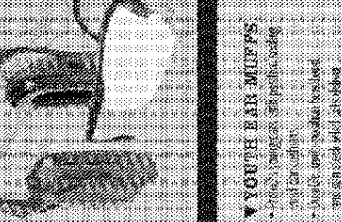
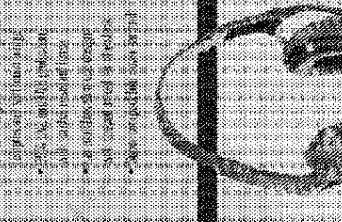
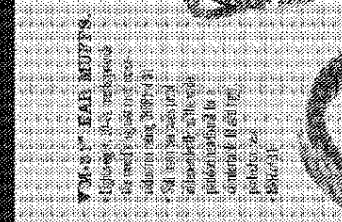
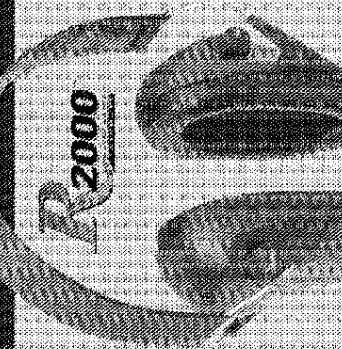
| CONSUMER PAGE PISTOL BRASS |          |
|----------------------------|----------|
| 3346                       | 2/1/1979 |
| 3346                       | 2/1/1979 |

| Field Grade Descriptive Characteristics |        |        |
|-----------------------------------------|--------|--------|
| 2" Poly 414e                            | 255.2  | —      |
| Field Grade Descriptive Characteristics |        |        |
| 2" Poly 414e                            | 255.70 | —      |
| 2" Poly 414e                            | 255.70 | —      |
| 2" Poly 414e                            | —      | 255.70 |
| Field Grade Descriptive Characteristics |        |        |
| 2" Poly 414e                            | 255.71 | —      |
| Field Grade Descriptive Characteristics |        |        |
| 2" Poly 414e                            | 255.71 | —      |

| Deer Range 1, Castleview Scope Mount   |       |       |  |
|----------------------------------------|-------|-------|--|
| 21° Fly Inlet                          | 25615 |       |  |
| Deer Range 100, Sight                  |       |       |  |
| 21° Fly Inlet                          | 25636 | 21657 |  |
| 21° Fly Inlet                          | 25828 |       |  |
| SP* Deer Range, Castleview Scope Mount |       |       |  |
| 21° Fly Inlet                          | 24625 |       |  |
| 21° Fly Inlet Canal                    | 24627 | —     |  |
| 21° Fly Inlet                          | 24628 |       |  |
| SP* Deer Range, Rifle Sight            |       |       |  |
| 21° Fly Inlet                          | 24627 |       |  |
| 21° Fly Inlet                          | 24628 | —     |  |
| SP* Magazine Deer Ho                   |       |       |  |
| SP Rifle Scope                         | 21628 | —     |  |
| SP Rifle Scope                         | 24627 | —     |  |
| SP Rifle Scope                         | 24628 | —     |  |

[illegible]

# HEARING PROTECTION



**NEW**  
1985

**BABY SHOOTING RANGE**  
The Baby Shooting Range is a new addition to the Baby Shooting Range line. It is a dark, rectangular box with a circular opening. It is designed to be used with the Baby Shooting Range apparatus. The Baby Shooting Range is a new addition to the Baby Shooting Range line. It is a dark, rectangular box with a circular opening. It is designed to be used with the Baby Shooting Range apparatus.

**SHOOTING YARD**  
The Shooting Yard is a new addition to the Baby Shooting Range line. It is a dark, rectangular box with a circular opening. It is designed to be used with the Baby Shooting Range apparatus.

**SHOOTING AREA**  
The Shooting Area is a new addition to the Baby Shooting Range line. It is a dark, rectangular box with a circular opening. It is designed to be used with the Baby Shooting Range apparatus.

**SHOOTING APPARATUS**  
The Shooting Apparatus is a new addition to the Baby Shooting Range line. It is a dark, rectangular box with a circular opening. It is designed to be used with the Baby Shooting Range apparatus.

[illegible]





1964-1965-1966-1967-1968-1969-1970-1971-1972-1973-1974-1975-1976-1977-1978-1979-1980-1981-1982-1983-1984-1985-1986-1987-1988-1989-1990-1991-1992-1993-1994-1995-1996-1997-1998-1999-2000-2001-2002-2003-2004-2005-2006-2007-2008-2009-2010-2011-2012-2013-2014-2015-2016-2017-2018-2019-2020-2021-2022-2023-2024-2025-2026-2027-2028-2029-2030-2031-2032-2033-2034-2035-2036-2037-2038-2039-2040-2041-2042-2043-2044-2045-2046-2047-2048-2049-2050-2051-2052-2053-2054-2055-2056-2057-2058-2059-2060-2061-2062-2063-2064-2065-2066-2067-2068-2069-2070-2071-2072-2073-2074-2075-2076-2077-2078-2079-2080-2081-2082-2083-2084-2085-2086-2087-2088-2089-2090-2091-2092-2093-2094-2095-2096-2097-2098-2099-2100-2101-2102-2103-2104-2105-2106-2107-2108-2109-2110-2111-2112-2113-2114-2115-2116-2117-2118-2119-2120-2121-2122-2123-2124-2125-2126-2127-2128-2129-2130-2131-2132-2133-2134-2135-2136-2137-2138-2139-2140-2141-2142-2143-2144-2145-2146-2147-2148-2149-2150-2151-2152-2153-2154-2155-2156-2157-2158-2159-2160-2161-2162-2163-2164-2165-2166-2167-2168-2169-2170-2171-2172-2173-2174-2175-2176-2177-2178-2179-2180-2181-2182-2183-2184-2185-2186-2187-2188-2189-2190-2191-2192-2193-2194-2195-2196-2197-2198-2199-2200-2201-2202-2203-2204-2205-2206-2207-2208-2209-2210-2211-2212-2213-2214-2215-2216-2217-2218-2219-2220-2221-2222-2223-2224-2225-2226-2227-2228-2229-2230-2231-2232-2233-2234-2235-2236-2237-2238-2239-2240-2241-2242-2243-2244-2245-2246-2247-2248-2249-2250-2251-2252-2253-2254-2255-2256-2257-2258-2259-2260-2261-2262-2263-2264-2265-2266-2267-2268-2269-2270-2271-2272-2273-2274-2275-2276-2277-2278-2279-2280-2281-2282-2283-2284-2285-2286-2287-2288-2289-2290-2291-2292-2293-2294-2295-2296-2297-2298-2299-2300-2301-2302-2303-2304-2305-2306-2307-2308-2309-2310-2311-2312-2313-2314-2315-2316-2317-2318-2319-2320-2321-2322-2323-2324-2325-2326-2327-2328-2329-2330-2331-2332-2333-2334-2335-2336-2337-2338-2339-2340-2341-2342-2343-2344-2345-2346-2347-2348-2349-2350-2351-2352-2353-2354-2355-2356-2357-2358-2359-2360-2361-2362-2363-2364-2365-2366-2367-2368-2369-2370-2371-2372-2373-2374-2375-2376-2377-2378-2379-2380-2381-2382-2383-2384-2385-2386-2387-2388-2389-2390-2391-2392-2393-2394-2395-2396-2397-2398-2399-2400-2401-2402-2403-2404-2405-2406-2407-2408-2409-2410-2411-2412-2413-2414-2415-2416-2417-2418-2419-2420-2421-2422-2423-2424-2425-2426-2427-2428-2429-2430-2431-2432-2433-2434-2435-2436-2437-2438-2439-2440-2441-2442-2443-2444-2445-2446-2447-2448-2449-2450-2451-2452-2453-2454-2455-2456-2457-2458-2459-2460-2461-2462-2463-2464-2465-2466-2467-2468-2469-2470-2471-2472-2473-2474-2475-2476-2477-2478-2479-2480-2481-2482-2483-2484-2485-2486-2487-2488-2489-2490-2491-2492-2493-2494-2495-2496-2497-2498-2499-2500-2501-2502-2503-2504-2505-2506-2507-2508-2509-2510-2511-2512-2513-2514-2515-2516-2517-2518-2519-2520-2521-2522-2523-2524-2525-2526-2527-2528-2529-2530-2531-2532-2533-2534-2535-2536-2537-2538-2539-2540-2541-2542-2543-2544-2545-2546-2547-2548-2549-2550-2551-2552-2553-2554-2555-2556-2557-2558-2559-2560-2561-2562-2563-2564-2565-2566-2567-2568-2569-2570-2571-2572-2573-2574-2575-2576-2577-2578-2579-2580-2581-2582-2583-2584-2585-2586-2587-2588-2589-2590-2591-2592-2593-2594-2595-2596-2597-2598-2599-2600-2601-2602-2603-2604-2605-2606-2607-2608-2609-2610-2611-2612-2613-2614-2615-2616-2617-2618-2619-2620-2621-2622-2623-2624-2625-2626-2627-2628-2629-2630-2631-2632-2633-2634-2635-2636-2637-2638-2639-2640-2641-2642-2643-2644-2645-2646-2647-2648-2649-2650-2651-2652-2653-2654-2655-2656-2657-2658-2659-2660-2661-2662-2663-2664-2665-2666-2667-2668-2669-2670-2671-2672-2673-2674-2675-2676-2677-2678-2679-2680-2681-2682-2683-2684-2685-2686-2687-2688-2689-2690-2691-2692-2693-2694-2695-2696-2697-2698-2699-2700-2701-2702-2703-2704-2705-2706-2707-2708-2709-2710-2711-2712-2713-2714-2715-2716-2717-2718-2719-2720-2721-2722-2723-2724-2725-2726-2727-2728-2729-2730-2731-2732-2733-2734-2735-2736-2737-2738-2739-2740-2741-2742-2743-2744-2745-2746-2747-2748-2749-2750-2751-2752-2753-2754-2755-2

# PACKAGED FACTORY PARTS

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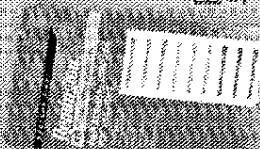
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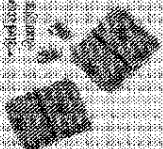
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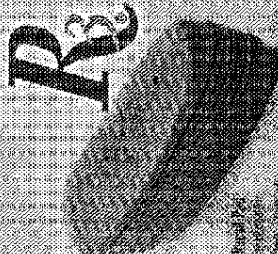
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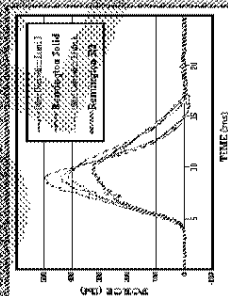
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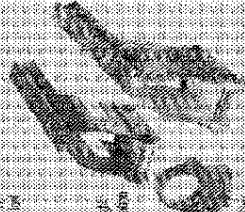
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**REM® CHOKE TUBES AND WRENCHES**

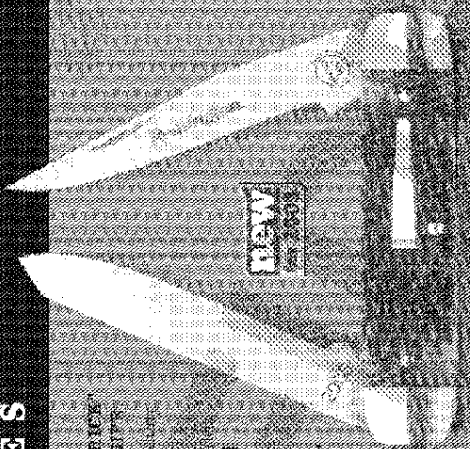
## REMINGTON KNIVES

### COLLECTIBLE KNIVES

Remington knives are the most sought after collectible knives in the world. They are the only knives that have been made for over 100 years. They are the only knives that have been made in the United States. They are the only knives that have been made by a single company. They are the only knives that have been made by a single company. They are the only knives that have been made by a single company.

### 1898 KATIECK KNIFE

The Katieck knife is a collectible knife. It is a knife that was made in 1898. It is a knife that was made by Remington. It is a knife that was made in the United States. It is a knife that was made by a single company. It is a knife that was made by a single company. It is a knife that was made by a single company.

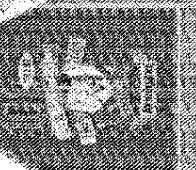
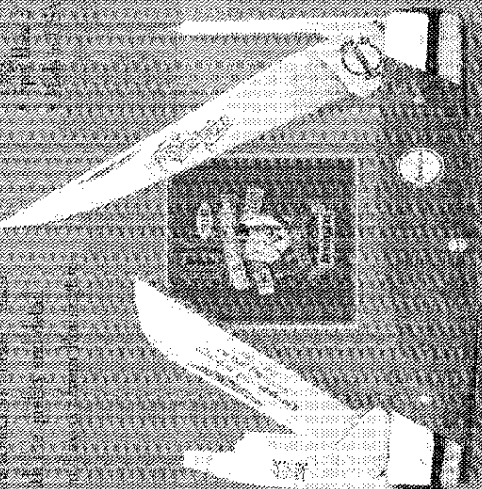


**new**  
1903

### 1903 ANNIVERSARY REMINGTON AUTOLOADING MAGGON KNIFE

The 1903 Anniversary Remington AutoLoading Maggon Knife is a collectible knife. It is a knife that was made in 1903. It is a knife that was made by Remington. It is a knife that was made in the United States. It is a knife that was made by a single company. It is a knife that was made by a single company. It is a knife that was made by a single company.

**new**  
1903



### OUTDOOR RECREATION KNIFE SERIES

The Outdoor Recreation Knife Series is a collection of knives designed for outdoor use. They are made of high-quality materials and are built to last. They are the only knives that have been made for over 100 years. They are the only knives that have been made in the United States. They are the only knives that have been made by a single company. They are the only knives that have been made by a single company. They are the only knives that have been made by a single company.

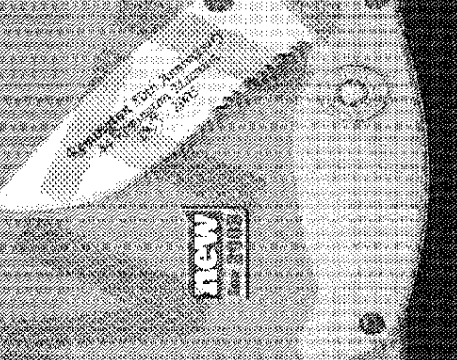
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Remington

### 1904 ANNIVERSARY REMINGTON MAGGON

The 1904 Anniversary Remington Maggon is a collectible knife. It is a knife that was made in 1904. It is a knife that was made by Remington. It is a knife that was made in the United States. It is a knife that was made by a single company. It is a knife that was made by a single company. It is a knife that was made by a single company.

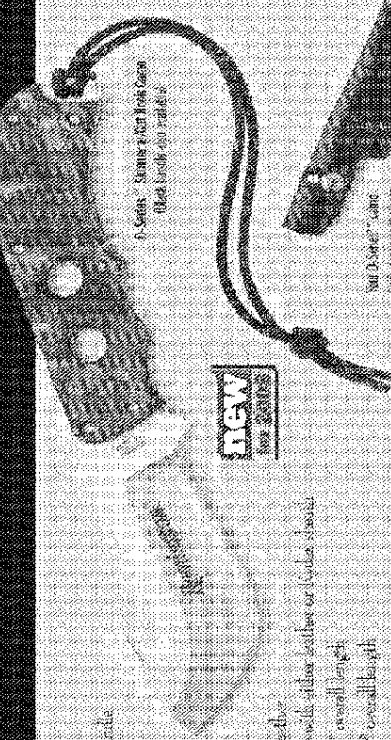
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**new**  
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### D-SERIES KNIVES

- 1001 series aluminum handle
- Available in black and red
- For 1003 Woven Cup
- 1004 series
- 1005 high carbon stainless steel blade
- 1006 high carbon with leather sheath and knife with bowie, silver leather or leather sheath
- Shunter 3 1/2 inch - 7 1/2 inch overall length
- From 1001: 4 inch - 8 1/2 inch overall length



**new**  
1903

A Series 1003 First Case Black Blade 1003

1003 Series 1003

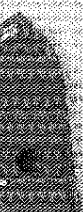
### M-SERIES KNIVES

- 440A stainless steel blade with laser etched Remington logo
- Black 6061 T6 aluminum handle
- Stainless steel pocket clip
- Large hole
- Medium 3 1/2 inch - 4 1/2 inch
- Large 4 1/2 inch - 5 1/2 inch

**new**  
1903

MODEL 830 - KNIFE

- 440A stainless steel blade with laser etched Remington logo
- 6061 T6 aluminum handle
- Laser etched Remington logo
- Laser etched Remington logo
- Laser etched Remington logo
- Laser etched Remington logo



# REMINGTON KNIVES

**SPORTSMAN™ SERIES KNIVES** The Remington Sportsman Series offers the finest quality knives in the world. All of our knives are made in the USA and are available in a variety of finishes. The Sportsman Series knives are made from the finest materials and are available in a variety of finishes. The Sportsman Series knives are made from the finest materials and are available in a variety of finishes.



## SPORTSMAN™ SERIES DEER FOLDING KNIVES

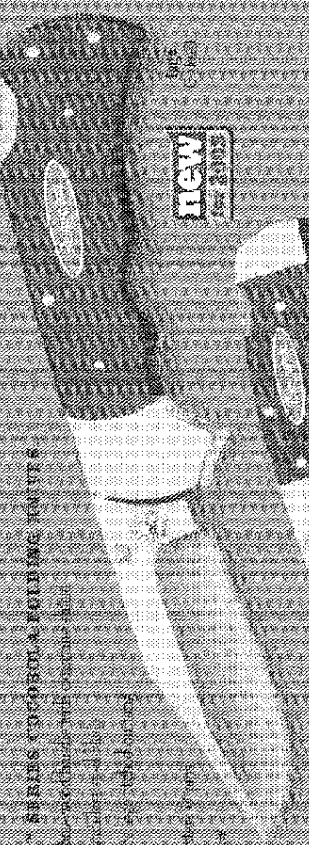
- Large 4 1/2" blade with 1 1/2" cutting edge
- Locking action, thumb hole
- Titanium frame and blades
- Blade finish:
  - Plain finish, folding
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  - Plain finish, folding
- Large handle, thumb hole
- Blade finish:
  - Plain finish, folding
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  - Plain finish, folding



**new**  
for 1985

## SPORTSMAN™ SERIES SPORTSMAN FOLDING KNIVES

- Large 4 1/2" blade with 1 1/2" cutting edge
- Locking action, thumb hole
- Titanium frame and blades
- Blade finish:
  - Plain finish, folding
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- Large handle, thumb hole
- Blade finish:
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**new**  
for 1985

## SPORTSMAN™ SERIES STEEL FOLDER WITH COLLECTOR TIE

- Large 4 1/2" blade with 1 1/2" cutting edge
- Locking action, thumb hole
- Titanium frame and blades
- Blade finish:
  - Plain finish, folding
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- Large handle, thumb hole
- Blade finish:
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  - Plain finish, folding



## SPORTSMAN™ SERIES KNIVES

- Large 4 1/2" blade with 1 1/2" cutting edge
- Locking action, thumb hole
- Titanium frame and blades
- Blade finish:
  - Plain finish, folding
  - Plain finish, folding
  - Plain finish, folding
- Large handle, thumb hole
- Blade finish:
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## SPORTSMAN™ SERIES KNIVES

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  - Plain finish, folding
- Large handle, thumb hole
- Blade finish:
  - Plain finish, folding
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## HOME SECURITY / SAFES

If you have a gun, you know how important it is to keep it safe. But the safe you choose can make a difference. A safe that has a fire rating will protect your gun from fire. A safe that has a burglary rating will protect your gun from theft. A safe that has both ratings will protect your gun from both fire and theft. That's why we recommend a safe with both ratings.

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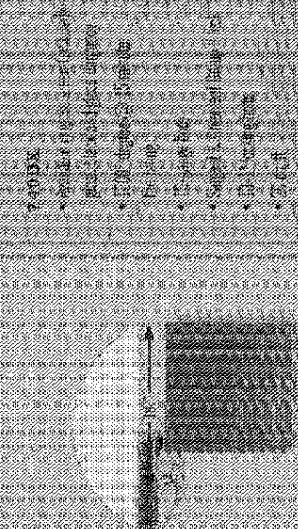
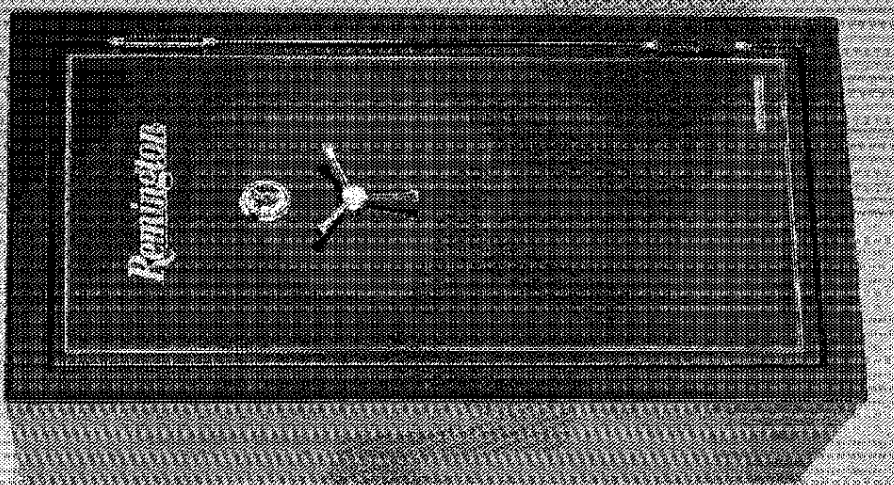
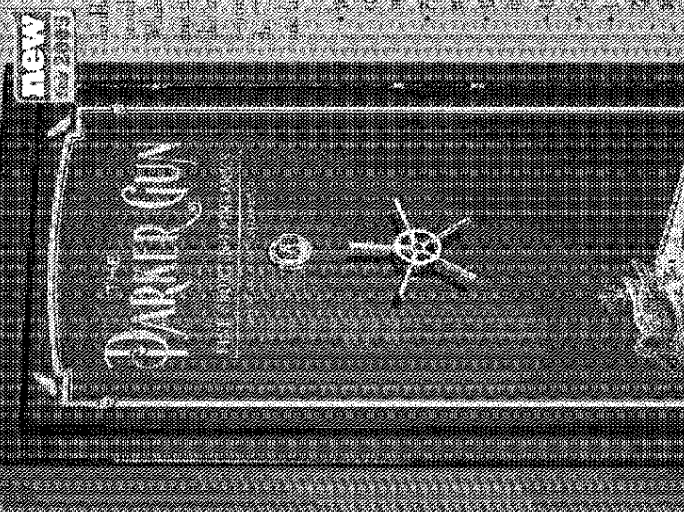
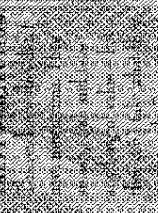
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author David  
Matters, for his *Impassioned Power*.  
The book is a well-written and well-illustrated  
study of the life of the author's father, a  
man who was a member of the  
Kluge family.

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See Eastern  
Bookbinding Co. on p. 54 for details  
on the cover of  
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**Readers:**  
 The 1997 *Planning for Success* report  
 has been a catalyst for change in  
 the way we think about the future.

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**Chairman, Board of Directors:**  
 Alan J. Hill  
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| Year | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 | 2095 | 2096 | 2097 | 2098 | 2099 | 2100 |
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| 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 | 2095 | 2096 | 2097 | 2098 | 2099 | 2100 |      |

**WATERBURY**

**THE**

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 WWW: [www.fineandpearce.com](http://www.fineandpearce.com)

1. 姓名: 李强

## CENTERFIRE BALLISTICS

Under the circumstances and conditions how it performs may not only give the purchaser your rifle, but the rifle, as well. To help you learn in standard cartridge ballistics. Remington has acquired a series of tables to make it easy to identify the proper ammunition and to compare it to the cartridge firing velocity and muzzle energy.

### RIFLE VELOCITY VS BARREL LENGTH

These tables are intended to compare the muzzle velocity of the rifle with the muzzle velocity of the cartridge. The muzzle velocity of the rifle is determined by the muzzle velocity of the cartridge and the barrel length. The muzzle velocity of the cartridge is determined by the muzzle velocity of the cartridge and the barrel length.

Barrels shown in the 20" barrel, except those for 30.06 and 30.06 Winchester Magnum, which are for 20" barrels. These barrel lengths are shown as representative, as it is impossible to show performance figures for all barrel lengths.

Barrel lengths, muzzle energies and muzzle velocities are shown as representative, as it is impossible to show performance figures for all barrel lengths. The muzzle velocity of the cartridge is determined by the muzzle velocity of the cartridge and the barrel length.

| CARTRIDGE | VELOCITY (FPS) | ENERGY (FT-LBS) |
|-----------|----------------|-----------------|
| 30.06     | 2000           | 10              |
| 30.06     | 2000           | 20              |
| 30.06     | 2000           | 30              |
| 30.06     | 2000           | 40              |

### INTERCHANGEABILITY CHART

Cartridges within groups shown are interchangeable. Other substitutions should not be made without specific recommendation of the Remington manufacturer since improper substitution could result in firearm damage or personal injury.

| CARTRIDGE | VELOCITY (FPS) | ENERGY (FT-LBS) |
|-----------|----------------|-----------------|
| 30.06     | 2000           | 10              |
| 30.06     | 2000           | 20              |
| 30.06     | 2000           | 30              |
| 30.06     | 2000           | 40              |

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| CARTRIDGE | VELOCITY (FPS) | ENERGY (FT-LBS) |
|-----------|----------------|-----------------|
| 30.06     | 2000           | 10              |
| 30.06     | 2000           | 20              |
| 30.06     | 2000           | 30              |
| 30.06     | 2000           | 40              |

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|-----------|----------------|-----------------|
| 30.06     | 2000           | 10              |
| 30.06     | 2000           | 20              |
| 30.06     | 2000           | 30              |
| 30.06     | 2000           | 40              |

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| CARTRIDGE | VELOCITY (FPS) | ENERGY (FT-LBS) |
|-----------|----------------|-----------------|
| 30.06     | 2000           | 10              |
| 30.06     | 2000           | 20              |
| 30.06     | 2000           | 30              |
| 30.06     | 2000           | 40              |

### INTERCHANGEABILITY CHART

Cartridges within groups shown are interchangeable. Other substitutions should not be made without specific recommendation of the Remington manufacturer since improper substitution could result in firearm damage or personal injury.

| CARTRIDGE | VELOCITY (FPS) | ENERGY (FT-LBS) |
|-----------|----------------|-----------------|
| 30.06     | 2000           | 10              |
| 30.06     | 2000           | 20              |
| 30.06     | 2000           | 30              |
| 30.06     | 2000           | 40              |

# CENTERFIRE BALLISTICS

# CENTREFIRE BALLISTICS

**WILLIAMS & WILKINS**

**WILLIAMS & WILKINS**

| Year | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 | 2095 | 2096 | 2097 | 2098 | 2099 | 2100 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 | 2095 | 2096 | 2097 | 2098 | 2099 | 2100 |      |

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|-------|---|---|---|---|---|
| 11.54 | — | — | — | — | — |
| 12.0  | — | — | — | — | — |
| 12.5  | — | — | — | — | — |
| 13.0  | — | — | — | — | — |
| 13.5  | — | — | — | — | — |
| 14.0  | — | — | — | — | — |
| 14.5  | — | — | — | — | — |
| 15.0  | — | — | — | — | — |
| 15.5  | — | — | — | — | — |
| 16.0  | — | — | — | — | — |
| 16.5  | — | — | — | — | — |
| 17.0  | — | — | — | — | — |
| 17.5  | — | — | — | — | — |
| 18.0  | — | — | — | — | — |
| 18.5  | — | — | — | — | — |
| 19.0  | — | — | — | — | — |
| 19.5  | — | — | — | — | — |
| 20.0  | — | — | — | — | — |
| 20.5  | — | — | — | — | — |
| 21.0  | — | — | — | — | — |
| 21.5  | — | — | — | — | — |
| 22.0  | — | — | — | — | — |
| 22.5  | — | — | — | — | — |
| 23.0  | — | — | — | — | — |
| 23.5  | — | — | — | — | — |
| 24.0  | — | — | — | — | — |
| 24.5  | — | — | — | — | — |
| 25.0  | — | — | — | — | — |
| 25.5  | — | — | — | — | — |
| 26.0  | — | — | — | — | — |
| 26.5  | — | — | — | — | — |
| 27.0  | — | — | — | — | — |
| 27.5  | — | — | — | — | — |
| 28.0  | — | — | — | — | — |
| 28.5  | — | — | — | — | — |
| 29.0  | — | — | — | — | — |
| 29.5  | — | — | — | — | — |
| 30.0  | — | — | — | — | — |
| 30.5  | — | — | — | — | — |
| 31.0  | — | — | — | — | — |
| 31.5  | — | — | — | — | — |
| 32.0  | — | — | — | — | — |
| 32.5  | — | — | — | — | — |
| 33.0  | — | — | — | — | — |
| 33.5  | — | — | — | — | — |
| 34.0  | — | — | — | — | — |
| 34.5  | — | — | — | — | — |
| 35.0  | — | — | — | — | — |
| 35.5  | — | — | — | — | — |
| 36.0  | — | — | — | — | — |
| 36.5  | — | — | — | — | — |
| 37.0  | — | — | — | — | — |
| 37.5  | — | — | — | — | — |
| 38.0  | — | — | — | — | — |
| 38.5  | — | — | — | — | — |
| 39.0  | — | — | — | — | — |
| 39.5  | — | — | — | — | — |
| 40.0  | — | — | — | — | — |
| 40.5  | — | — | — | — | — |
| 41.0  | — | — | — | — | — |
| 41.5  | — | — | — | — | — |
| 42.0  | — | — | — | — | — |
| 42.5  | — | — | — | — | — |
| 43.0  | — | — | — | — | — |
| 43.5  | — | — | — | — | — |
| 44.0  | — | — | — | — | — |
| 44.5  | — | — | — | — | — |
| 45.0  | — | — | — | — | — |
| 45.5  | — | — | — | — | — |
| 46.0  | — | — | — | — | — |
| 46.5  | — | — | — | — | — |
| 47.0  | — | — | — | — | — |
| 47.5  | — | — | — | — | — |
| 48.0  | — | — | — | — | — |
| 48.5  | — | — | — | — | — |
| 49.0  | — | — | — | — | — |
| 49.5  | — | — | — | — | — |
| 50.0  | — | — | — | — | — |

表 10 1982 年 12 月 25 日 10 时 30 分至 11 时 30 分 10 分钟雨量记录表

表 11 1982 年 12 月 25 日 11 时 30 分至 12 时 30 分 10 分钟雨量记录表

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|   |   |   |   |   |   |   |   |   |    |    |    |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13   | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13   | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13   | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13   | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13   | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13</ |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |

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|   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99  | 100 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |     |

THE UNIVERSITY OF CHICAGO

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| Year | Age | Sex | Length | Wing | Tail | Bill | Foot | Weight | Notes    |
|------|-----|-----|--------|------|------|------|------|--------|----------|
| 1928 | 10  | ♂   | 287    | 125  | 100  | 15   | 10   | 100    | Immature |
| 1929 | 11  | ♂   | 290    | 128  | 102  | 16   | 11   | 105    | Immature |
| 1930 | 12  | ♂   | 293    | 130  | 104  | 17   | 12   | 110    | Immature |
| 1931 | 13  | ♂   | 296    | 132  | 106  | 18   | 13   | 115    | Immature |
| 1932 | 14  | ♂   | 299    | 134  | 108  | 19   | 14   | 120    | Immature |
| 1933 | 15  | ♂   | 302    | 136  | 110  | 20   | 15   | 125    | Immature |
| 1934 | 16  | ♂   | 305    | 138  | 112  | 21   | 16   | 130    | Immature |
| 1935 | 17  | ♂   | 308    | 140  | 114  | 22   | 17   | 135    | Immature |
| 1936 | 18  | ♂   | 311    | 142  | 116  | 23   | 18   | 140    | Immature |
| 1937 | 19  | ♂   | 314    | 144  | 118  | 24   | 19   | 145    | Immature |
| 1938 | 20  | ♂   | 317    | 146  | 120  | 25   | 20   | 150    | Immature |
| 1939 | 21  | ♂   | 320    | 148  | 122  | 26   | 21   | 155    | Immature |
| 1940 | 22  | ♂   | 323    | 150  | 124  | 27   | 22   | 160    | Immature |
| 1941 | 23  | ♂   | 326    | 152  | 126  | 28   | 23   | 165    | Immature |
| 1942 | 24  | ♂   | 329    | 154  | 128  | 29   | 24   | 170    | Immature |
| 1943 | 25  | ♂   | 332    | 156  | 130  | 30   | 25   | 175    | Immature |
| 1944 | 26  | ♂   | 335    | 158  | 132  | 31   | 26   | 180    | Immature |
| 1945 | 27  | ♂   | 338    | 160  | 134  | 32   | 27   | 185    | Immature |
| 1946 | 28  | ♂   | 341    | 162  | 136  | 33   | 28   | 190    | Immature |
| 1947 | 29  | ♂   | 344    | 164  | 138  | 34   | 29   | 195    | Immature |
| 1948 | 30  | ♂   | 347    | 166  | 140  | 35   | 30   | 200    | Immature |
| 1949 | 31  | ♂   | 350    | 168  | 142  | 36   | 31   | 205    | Immature |
| 1950 | 32  | ♂   | 353    | 170  | 144  | 37   | 32   | 210    | Immature |
| 1951 | 33  | ♂   | 356    | 172  | 146  | 38   | 33   | 215    | Immature |
| 1952 | 34  | ♂   | 359    | 174  | 148  | 39   | 34   | 220    | Immature |
| 1953 | 35  | ♂   | 362    | 176  | 150  | 40   | 35   | 225    | Immature |
| 1954 | 36  | ♂   | 365    | 178  | 152  | 41   | 36   | 230    | Immature |
| 1955 | 37  | ♂   | 368    | 180  | 154  | 42   | 37   | 235    | Immature |
| 1956 | 38  | ♂   | 371    | 182  | 156  | 43   | 38   | 240    | Immature |
| 1957 | 39  | ♂   | 374    | 184  | 158  | 44   | 39   | 245    | Immature |
| 1958 | 40  | ♂   | 377    | 186  | 160  | 45   | 40   | 250    | Immature |
| 1959 | 41  | ♂   | 380    | 188  | 162  | 46   | 41   | 255    | Immature |
| 1960 | 42  | ♂   | 383    | 190  | 164  | 47   | 42   | 260    | Immature |
| 1961 | 43  | ♂   | 386    | 192  | 166  | 48   | 43   | 265    | Immature |
| 1962 | 44  | ♂   | 389    | 194  | 168  | 49   | 44   | 270    | Immature |
| 1963 | 45  | ♂   | 392    | 196  | 170  | 50   | 45   | 275    | Immature |
| 1964 | 46  | ♂   | 395    | 198  | 172  | 51   | 46   | 280    | Immature |
| 1965 | 47  | ♂   | 398    | 200  | 174  | 52   | 47   | 285    | Immature |
| 1966 | 48  | ♂   | 401    | 202  | 176  | 53   | 48   | 290    | Immature |
| 1967 | 49  | ♂   | 404    | 204  | 178  | 54   | 49   | 295    | Immature |
| 1968 | 50  | ♂   | 407    | 206  | 180  | 55   | 50   | 300    | Immature |
| 1969 | 51  | ♂   | 410    | 208  | 182  | 56   | 51   | 305    | Immature |
| 1970 | 52  | ♂   | 413    | 210  | 184  | 57   | 52   | 310    | Immature |
|      |     |     |        |      |      |      |      |        |          |

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| Case | Age | Sex | Duration of illness (yr) | Onset | Course  | Outcome   | Remarks                      |
|------|-----|-----|--------------------------|-------|---------|-----------|------------------------------|
| 1    | 62  | F   | 5                        | 1952  | Chronic | Recovered | First case reported in Japan |
| 2    | 66  | F   | 7                        | 1953  | Chronic | Recovered |                              |
| 3    | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 4    | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 5    | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 6    | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 7    | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 8    | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 9    | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 10   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 11   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 12   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 13   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 14   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 15   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 16   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 17   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 18   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 19   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 20   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 21   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 22   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 23   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 24   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 25   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 26   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 27   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 28   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 29   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 30   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 31   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 32   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 33   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 34   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 35   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 36   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 37   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 38   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 39   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 40   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 41   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 42   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 43   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 44   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 45   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 46   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 47   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 48   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 49   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 50   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 51   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 52   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 53   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 54   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 55   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 56   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 57   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 58   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 59   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 60   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 61   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 62   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 63   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 64   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 65   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 66   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 67   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 68   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 69   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 70   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |
| 71   | 64  | F   | 7                        | 1954  | Chronic | Recovered |                              |

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