H.P. WHITE LABORATORY, INC.
TEST RESULTS
We are Teludyne Tech Industries, the stewards of the StraightJacket® Barrel System. The StraightJacket® Barrel System is the next step in the evolution of the rifle barrel. By our own admission the performance enhancements made by the StraightJacket® are unbelievable; however, it is through years of testing and development that we came to this point. To prove and confirm that the remarkable claims are indeed true, we have enlisted the services of the professionals at H.P. White Laboratories. H.P. White Laboratory, Inc. is the premier small arms and ammunition research, development and testing laboratory in the United States. Their clients include the many branches of the U.S. Military, DoD and its many subsidiaries, Dept. of Homeland Security, U.S. Secret Service, major firearms manufacturers and governments of more than 20 global countries.

This test began by purchasing a brand new Remington model 700 chambered in .300 Win Mag direct from Remington Arms Co. The rifle was unboxed and tested by James W. Armstrong of the Greenville County Sherriff's Department Crime Lab to establish the ballistic fingerprint of the rifle. This rifle was then boxed and shipped to H.P. White Labs in Street, MD. The Three test batteries (1. Sustained Fire, 2. Mil-Spec Extreme Temperature, 3. Directional Heat Influence) were completed in full. The test rifle was returned to Teludyne Tech where a StraightJacket® Barrel System was installed, and James W. Armstrong at the crime lab tested and verified that the rifle’s original barrel was still intact. The rifle and documents from the Greenville County Crime Lab were given to H.P. White Labs. The three test batteries were again completed in full, using ammunition from the same case and lot number, the same optic, the same fixture and the same examiners as used before. The results of the tests showed that the claims made by Teludyne Tech about the advantages of the StraightJacket® Barrel System are true.

We again enlisted H.P. White Labs to prove the heat dissipation capabilities of the StraightJacket® Barrel System. A brand new Teludyne SJBS M4 upper was built using a Mil-Spec barrel and upper and taken to the H.P. White facility in Street, MD. The SJBS upper was installed onto a full auto lower and secured in a test fixture. Thirty round magazines were pre-loaded with M855 ammunition. All rounds were fired full auto until the magazine ran empty, and only the time needed to load a new magazine and resume testing was taken between rounds. Thirteen magazines (390 rounds) were fired in 3 minutes and 40 seconds. After testing was complete, temperature testing was done on the chamber and muzzle ends. With ambient temperature being 65 degrees F, the SJBS M4 was a mere 207 degrees F at chamber and muzzle. Compare this to existing Military data where a conventional M4 chamber would be over 1500 degrees F after the same test. Again we say, and H.P White Labs confirms The StraightJacket® Barrel System lives up to all claims.
November, 8, 2011

Noel Lasure
Vice President of Marketing & Product Development
Teludyne Tech Industries
1018 S. Batesville Road
Greer, SC 29650

Dear Mr. Lasure:

This examiner was asked to test fire a Remington model 700 rifle with serial number G7058478 in caliber 300 Winchester Magnum during the week of September 26, 2011. These test shots were preformed prior to Teludyne Tech Industries doing any work on the rifle. The test shots were obtained by use of a Water Recovery Tank. The fired bullet specimens were placed in a bag and stored in a secure location by this examiner in order to compare them at a later date to test shots from the post-jacketed barrel. The post-jacketed rifle was test fired on November 1, 2011 and test fired bullet specimens were obtained. The pre-jacketed fired bullet specimens were then microscopically compared against the post-jacketed fired bullet specimens. The result of these comparisons is that the pre-jacketed fired bullet specimens were fired from the same barrel as the post-jacketed fired bullet specimens. It is the opinion of this examiner that the barrel of the Remington model 700 rifle with serial number G7058478 in caliber 300 Winchester Magnum has not been altered or changed by the installation of the StraightJacket® Barrel System.

Sincerely,

James W. Armstrong
Firearms Examiner
Greenville Crime Lab
4 McGee Street
Greenville, SC 29601
(864) 467-5178
Sustained Fire Test

** Shots Fired:** 10  
**Atmospheric Conditions:** Indoor Range, 65°F  
**Rifle Conditions:** Locked in HP White Precision Rifle Fixture  
**Barrel Temperature:** 191.2°F/155.7°F  
**Sights Used:** 6-24x56 target optic mounted to a pic rail, mounted on the rifle's receiver  
**Ammo Used:** Factory new 190 GR BTHP Match Lot# 4513091811  
**Distance:** 100 yards  
**Notes:** 20 rounds were fired to heat the barrel prior to testing and then 10 rounds were fired for score; all rounds were fired without any cool down time allowed.

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**Legend**
- ▀ Point of Aim (POA)  
- **Test Rifle TTI-BR-01X**  
  - Red: Remington M700, S/N G7058478, .300 Win Mag without StraightJacket® Barrel System  
  - Blue: Remington M700, S/N G7058478, .300 Win Mag with StraightJacket® Barrel System
Sustained Fire Test

Shots Fired: 10
Atmospheric Conditions: Indoor Range, 65°F
Rifle Conditions: Locked in HP White Precision Rifle Fixture
Barrel Temperature: Ambient
Sights Used: 6-24x56 target optic mounted to a pic rail, mounted on the rifle's receiver
Ammo Used: Factory new 190 GR BTHP Match Lot# 4513091811
Distance: 100 yards
Notes: Following the 30 round sustained fire test, the rifle was allowed to return to ambient temperature prior to testing. All rounds were fired without any cool down time allowed.

Legend
- Point of Aim (POA)
- Test Rifle TTI-BR-01X
  - Remington M700, S/N G7058478, .300 Win Mag without StraightJacket™ Barrel System
  - Remington M700, S/N G7058478, .300 Win Mag with StraightJacket™ Barrel System
17 November 2011
(HPWLI 11988-01A)
(Revised 30 November 2011)

Teludyne Tech
1018 S. Batesville Road 3-D
Greer, SC 29650

Attention: Noel Lasure

In accordance with your instructions, H.P. White Laboratory, Inc. conducted Velocity and Dispersion Testing of one Remington Model 700, chambered in .300 Winchester Magnum, identified as S/N: G7058478 received 17 October 2011 via Federal Express.

Testing was conducted using caliber .300 Win. Mag., Black Hills, 190 gr. Boat-Tail Hollow Point, Lot 4513091811. The test sample was fixtured on an indoor range using a universal firearms mounting system. Photoelectric infrared screens were positioned at 5.0 and 25.0 feet which, in conjunction with dual elapsed time counters (chronographs), were used to compute projectile velocities 15.0 feet forward of the muzzle. Dispersion target was fixtured 100 yards from muzzle. Sighting optics mounted on the firearm was used to determine point of aim. To achieve warm conditions; 20 rounds were fired within a three minute timeframe. Warm testing was performed immediately following this procedure. Table 1 presents a summary of the enclosed data records.

Testing was conducted on 17 October 2011 with the firearm in its original configuration. On 2 November 2011 testing was conducted with the Teludyne Tech, Straight Jacket System installed. James W Armstrong, Firearms Examiner for Greenville County Crime Lab performed a bullet comparison on a single round fired 26 September 2011 with the firearm in its pre-jacketed state. On 1 November 2011 another single round was fired with the Straight Jacket system installed on the firearm. It was determined that the pre-jacketed bullet and the post-jacketed bullet were fired from the same barrel.

This report is based on data obtained from having tested only the sample submitted, and should NOT be interpreted as an endorsement by H.P. White Laboratory, Inc. of the continuing quality, or performance, of any other items of the same, or similar, design.

The test sample was returned into the custody of your on-site representative. Should you have any questions regarding this matter, or if we may be of any further service, please do not hesitate to contact us.

Sincerely,

H.P. White Laboratory, Inc.

Kevin Black

KB/sh
Enclosures
## TABLE I. SUMMARY OF RESULTS

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<th>Condition</th>
<th>Bullet</th>
<th>Shots</th>
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<th>Barrel Temperature (°F)</th>
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(a) With Straight Jacket System  
(b) Group shift from ambient temperature to warm temperature: 1.90” low, 1.00” Right  
(c) Group shift from ambient temperature to warm temperature: 0.74” Left  
(d) Temperature taken 8” forward of chamber
## Ammunition
- **Manufacturer:** BLACK HILLS
- **Type:** 300 WIN MAG.
- **Bullet:** BOAT-TAIL HP
- **Catalog No.:** UNKNOWN
- **Lot No.:** 4513091811
- **Case:** 300 WIN MAG.
- **Primer:** UNKNOWN
- **Bullet Wt.(gr.):** 190
- **Powder:** UNKNOWN
- **Overall Length (in.):** 3.309

## Weapon
- **Type:** G7058478
- **Barrel Length (in.):**
- **Reference Firing Date:**

## Set-Up
- **Range No.:** 6
- **Gunner:** BLACK
- **Recorder:** UNGER

## Velocity Data

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### Results
- **Measured SAAMI:**
- **Remarks:**

### Remarks
- POST 20 ROUNDS FIRED WITHIN 3 MINUTES
- BARREL RETURNED TO AMBIENT TEMPERATURE.
- 100 YARD DISPERSION (10 ROUND GROUP): 2.150°
- POINT OF AIM VS. POINT OF IMPACT: 3.25° HIGH, 0.74° LEFT
**AMMUNITION**
- **Manufacturer**: BLACK HILLS
- **Type**: 300 WIN MAG.
- **Bullet**: BOAT-TAIL HP
- **Case**: 300 WIN MAG.
- **Primer**: UNKNOWN
- **Bullet Wt. (gr.)**: 190
- **Powder**: UNKNOWN
- **Overall Length (in.)**: 3.309
- **Conditioning**: AMBIENT
- **Loader**: UNKNOWN
- **Date Rec'd**: 10/17/11
- **Via**: HAND CARRIED
- **Returned**: REMINGTON MODEL

**WEAPON**
- **Type**: G7058478
- **Ser. No.**: [Blank]

**SET-UP**
- **Vel. Screen 1**: 5
- **Vel. Screen 2**: 25
- **Barrel Length (in.)**: [Blank]

**Reference Firing Date**: [Blank]

**Range No.**: 6
- **Gunner**: BLACK
- **Recorder**: UNGER

**Temperature (F)**: 65
- **Barometer (in Hg)**: 29.89
- **Rel. Humidity (%):** 40

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**RESULTS**
- **Data Points**: 10
- **Maximum**: 3045
- **Minimum**: 2987
- **Extreme Variation**: 57
- **Average**: 3013
- **Standard Deviation**: 18.28
- **Avg. + 3 Std. Dev.**: 3048
- **Standard Error**: 5.78
- **Avg. + 2SE**: 3024
- **Avg. + 5SE**: 3042

**REMARKS**
- POST 20 ROUNDS FIRED WITHIN 3 MINUTES
- INTERNAL BARREL TEMPERATURE 8" FROM CHAMBER: 191.2 F
- EXTERNAL BARREL TEMPERATURE 8" FROM CHAMBER: 176.0 F
- 100 YARD DISPERSION (10 ROUND GROUP): 3.913"
- POINT OF AIM VS. POINT OF IMPACT: 1.35" HIGH, 0.25" RIGHT
- GROUP SHIFT FROM AMBIENT TO WARM: 1.90" LOW, 1.00" RIGHT

Filename: 11968-01 Teludyne post 20 shot (hot).xls
**AMMUNITION**

Manufacturer: BLACK HILLS  
Type: 300 WIN MAG  
Primer: UNKNOWN  
Bullet: BOAT-TAIL HP  
Bullet Wt.(gr.): 190  
Powder: UNKNOWN  
Overall Length (in.): 3.309  
Case: 300 WIN MAG  
Conditioning: AMBIENT  
Loader: UNKNOWN  
Date Rec'd: 11/2/11  
Via: HAND CARRIED  
Returned: REMINGTON 300 WIN

**WEAPON**

Type: G7058478  
Ser. No.:

**SET-UP**

Vel. Screen 1: 5  
Vel. Screen 2: 25

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**RESULTS**

Measured: 10  
SAAMI: Reqmt.

**REMARKS**

WITH STRAIGHT JACKET SYSTEM
POST 20 ROUNDS FIRED WITHIN 3 MINUTES
INTERNAL BARREL TEMPERATURE 8" FROM CHAMBER: 155.7 F
EXTERNAL BARREL TEMPERATURE 8" FROM CHAMBER: 142.1 F
100 YARD DISPERSION (10 SHOT GROUP): 2.625"
POINT OF AIM VS. POINT OF IMPACT: 1.25" LOW, 0.75" LEFT
GROUP SHIFT FROM AMBIENT TO WARM: 0.74" LEFT
## AMMUNITION
- Manufacturer: BLACK HILLS
- Type: 300 WIN MAG
- Bullet: BOAT-TAIL HP
- Catalog No.: 4513091811
- Case: 300 WIN MAG
- Primer: UNKNOWN
- Bullet Wt.(gr.): 190
- Powder: UNKNOWN
- Overall Length (in.): 3.309
- Conditioning: AMBIENT
- Loader: UNKNOWN
- Date Rec'd: 11/2/11
- Via: HAND CARRIED
- Returned: REMINGTON 300 WIN

## WEAPON
- Type: G7058478
- Ser. No.: 
- Barrel Length (in.): 
- Reference Firing Date: 
- Range No.: 6
- Gunner: BLACK
- Recorder: BLACK

## SET-UP
- Vel. Screen 1: 5
- Vel. Screen 2: 25

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### RESULTS
- No. Data Points: 10
- Maximum: 2982
- Minimum: 2927
- Extreme Variation: 55
- Average: 2960
- Standard Deviation: 17.89
- Avg.+3 Std. Dev.: 3013
- Standard Error: 5.66
- Avg.+2SE: 2971
- Avg.+5SE: 2988

### REMARKS
- WITH STRAIGHT JACKET SYSTEM
- POST 20 ROUNDS FIRED WITHIN 3 MINUTES
- BARREL RETURNED TO AMBIENT TEMPERATURE.
- 100 YARD DISPERSION (10 SHOT GROUP): 1.663" POINT OF AIM VS. POINT OF IMPACT: 1.25" HIGH.

Filename: TELUDYNE POST 20 SHOT AMBIENT.xls
MIL-SPEC Extreme Temperature Test

- **Shots Fired:** 5
- **Atmospheric Conditions:** Indoor Range, 65°F
- **Rifle Conditions:** Locked in HP White Precision Rifle Fixture
- **Barrel Temperature:** Cold Bore
- **Time Elapsed:** 55 minutes/15 minutes
- **Sights Used:** 6-24x56 target optic mounted to a pic rail, mounted on the rifle's receiver
- **Ammo Used:** Factory new 190 GR BTHP Match Lot# 4513091811
- **Distance:** 100 yards
- **Notes:** After each round was fired, the barrel was allowed to cool back to its starting temperature to ensure a true cold bore shot was taken. Testing was conducted in accordance with MIL-STD-810.

Legend
- Point of Aim (POA)
- Test Rifle TTI-BR-01X
  - Red: Remington M700, S/N G7058476, .300 Win Mag without StraightJacket® Barrel System
  - Blue: Remington M700, S/N G7058476, .300 Win Mag with StraightJacket® Barrel System
MIL-SPEC Extreme Temperature Test

Shots Fired: 5
Atmospheric Conditions: Indoor Range, 65°F
Rifle Conditions: Locked in HP White Precision Rifle Fixture
Barrel Temperature: +160°F
Sights Used: 6-24x56 target optic mounted to a pic rail, mounted on the rifle's receiver
Ammo Used: Factory new 190 GR BTHP Match Lot# 4513091811
Distance: 100 yards
Notes: Testing was conducted in accordance with MIL-STD-810.

Legend
- Point of Aim (POA)
- Remington M700, S/N G7058476, .300 Win Mag without StraightJacket® Barrel System
- Remington M700, S/N G7058476, .300 Win Mag with StraightJacket® Barrel System
**HP White Test Cycle - HPWL1 11988-01B-3**

**MIL-SPEC Extreme Temperature Test**

**Shots Fired:** 5

**Atmospheric Conditions:** Indoor Range, 65°F

**Rifle Conditions:** Locked in HP White Precision Rifle Fixture

**Barrel Temperature:** -60°F

**Sights Used:** 6-24x56 target optic mounted to a pic rail, mounted on the rifle's receiver

**Ammo Used:** Factory new 190 GR BTHP Match Lot# 4513091811

**Distance:** 100 yards

**Notes:** Testing was conducted in accordance with MIL-STD-810.

---

**Legend**

- **Point of Aim (POA)**
- **Test Rifle TTI-BR-01X**
  - **Red**: Remington M700, S/N G70568478, .300 Win Mag without StraightJacket® Barrel System
  - **Blue**: Remington M700, S/N G70568478, .300 Win Mag with StraightJacket® Barrel System
17 November 2011
(HPWLI 11988-01B)

Teludyne Tech
1018 S. Batesville Road 3-D
Greer, SC 29650

Attention: Noel Lasure

In accordance with your instructions, H.P. White Laboratory, Inc. conducted Velocity and Dispersion Testing of one Remington Model 700, chambered in .300 Winchester Magnum, identified as S/N: G7058478 received 17 October 2011 via Federal Express.

Testing was conducted using caliber .300 Win. Mag., Black Hills, 190 gr. Boat-Tail Hollow Point, Lot 4513091811. The test sample was fixtured on an indoor range using a universal firearms mounting system. Photoelectric infrared screens were positioned at 5.0 and 25.0 feet which, in conjunction with dual elapsed time counters (chronographs), were used to compute projectile velocities 15.0 feet forward of the muzzle. Dispersion target was fixtured 100 yards from muzzle. Sighting optics mounted on the firearm was used to determine point of aim. Temperature conditions were achieved by placing the entire firearm in thermal conditioning chambers. Once the internal barrel temperature reached the desired condition, the firearm was removed from the chamber and tested immediately. Table I presents a summary of the enclosed data records.

Testing was conducted on 17 October 2011 with the firearm in its original configuration. On 2 November 2011 testing was conducted with the Teludyne Tech, Straight Jacket System installed. James W Armstrong, Firearms Examiner for Greenville County Crime Lab performed a bullet comparison on a single round fired 26 September 2011 with the firearm in its pre-jacketed state. On 1 November 2011 another single round was fired with the Straight Jacket system installed on the firearm. It was determined that the pre-jacketed bullet and the post-jacketed bullet were fired from the same barrel.

This report is based on data obtained from having tested only the sample submitted, and should NOT be interpreted as an endorsement by H.P. White Laboratory, Inc. of the continuing quality, or performance, of any other items of the same, or similar, design.

The test sample was returned into the custody of your on-site representative. Should you have any questions regarding this matter, or if we may be of any further service, please do not hesitate to contact us.

Sincerely,

H.P. White Laboratory, Inc.

Kevin Black

KB/sh
Enclosures
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<th>Condition</th>
<th>Bullet</th>
<th>Shots</th>
<th>Velocity (fps)</th>
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(a) With Straight Jacket System  
(b) Test Duration 55 Minutes  
(c) Test Duration 15 Minutes  
(d) Barrel returned to ambient temperature between shots.
AMMUNITION
Manufacturer: BLACK HILLS
Type: 300 WIN MAG
Bullet: BOAT-TAIL HP
Catalog No.: 4513091811
Lot No.: 4513091811

WEAPON
Type: G7058478
Ser. No.: 

SET-UP
Vel. Screen 1: 5
Vel. Screen 2: 25

Case: 300 WIN MAG
Primer: UNKNOWN
Bullet Wt.(gr.): 190
Powder: UNKNOWN
Overall Length (in.): 3.309
Conditioning: AMBIENT
Loader: UNKNOWN
Date Rec'd: 11/2/11
Via: HAND CARRIED
Returned: REMINGTON 300 WIN

Range No.: 6
Gunner: BLACK
Recorder: BLACK

Velocity Correction (fps):

Temperature (F): 70
Barometer (in Hg): 29.56
Rel. Humidity (%): 34

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RESULTS

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Average: 2954

Standard Deviation: 15.31
Avg. x 3 Std. Dev.: 3000
Standard Error: 6.85
Avg. + 2SE: 2967
Avg. + 5SE: 2988
# VELOCITY DATA

**AMMUNITION**

- **Manufacturer:** BLACK HILLS
- **Type:** 300 WIN MAG
- **Bullet:** BOAT-TAIL HP
- **Catalog No.:**
- **Lot No.:** 4513091811
- **Case:** 300 WIN MAG
- **Primer:** UNKNOWN
- **Bullet Wt. (gr.):** 190
- **Powder:** UNKNOWN
- **Overall Length (in.):** 3.309
- **Conditioning:** AMBIENT
- **Loader:** UNKNOWN
- **Date Rec'd:** 11/2/11
- **Via:** HAND CARRIED
- **Returned:** REMINGTON 300 WIN

**WEAPON**

- **Type:** G7058478
- **Ser. No.:**

**SET-UP**

- **Vel. Screen 1:** 5
- **Vel. Screen 2:** 25
- **Range No.:** 6
- **Gunner:** BLACK
- **Recorder:** BLACK

**Velocity Correction (fps):**

- Range No.: 6
- Gunner: BLACK
- Recorder: BLACK

**Barrel Length (in.):**

- Reference Firing Date:

**Temperature (F):** 70

**Barometer (in Hg):** 29.56

**Rel. Humidity (%):** 34

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**RESULTS**

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Filename: TELUDYNE POST 5 SHOT 160 F.xls
# VELOCITY DATA

**AMMUNITION**
- Manufacturer: BLACK HILLS
- Type: 300 WIN MAG
- Bullet: BOAT-TAIL HP
- Case: 300 WIN MAG
- Primer: UNKNOWN
- Bullet Wt. (gr.): 190
- Powder: UNKNOWN
- Overall Length (in.): 3.309

**WEAPON**
- Type: G7058478
- Barrel Length (in.):
- Reference Firing Date:
- Range No.: 6
- Gunner: BLACK
- Recorder: BLACK

**SET-UP**
- Vel. Screen 1: 5
- Vel. Screen 2: 25

**Conditioning**
- Loader: UNKNOWN
- Date Rec'd: 11/2/11
- Via: HAND CARRIED
- Returned: REMINGTON 300 WIN

**Velocity Correction (fps):**
- Temperature (F): 70
- Barometer (in Hg): 29.56
- Rel. Humidity (%): 34

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**RESULTS**

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<th>REMARKS</th>
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<tr>
<td>Regmt.</td>
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<td>WITH STRAIGHT JACKET SYSTEM</td>
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<td>COLD BORE</td>
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<td>100 YARD DISPERSION (5 SHOT GROUP): 1.104&quot;</td>
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**No. Data Points:** 5
- Maximum: 2968
- Minimum: 2936
- Extreme Variation: 33
- Average: 2950

**Standard Deviation:** 11.89
- Avg. +3 Std. Dev.: 2986
- Standard Error: 5.32
- Avg. + 2SE: 2961
- Avg. + 5SE: 2977

Filename: TELUDYNE POST 5 SHOT AMBIENT (WARM).xls
# H.P. White Laboratory, Inc.

## VELOCITY DATA

**AMMUNITION**
- **Manufacturer:** BLACK HILLS
- **Type:** .300 WIN MAG.
- **Bullet:** BOAT-TAIL HP
- **Catalog No.:** UNKNOWN
- **Lot No.:** 4513091811
- **Case:** .300 WIN MAG.
- **Primer:** UNKNOWN
- **Bullet Wt.(gr.):** 190
- **Powder:** UNKNOWN
- **Overall Length (in.):** 3.309
- **Conditioning:** AMBIENT
- **Loader:** UNKNOWN
- **Date Rec'd:** 10/17/11
- **Via:** HAND CARRIED
- **Returned:** REMINGTON MODEL

**WEAPON**
- **Type:** G7058478
- **Ser. No.:**
- **Barrel Length (in.):**
- **Reference Firing Date:**
- **Range No.:** 6
- **Gunner:** BLACK
- **Recorder:** UNGER
- **Velocity Correction (fps):**
- **Temperature (F):** 65
- **Barometer (in Hg):** 29.89
- **Rel. Humidity (%):** 40

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### RESULTS
- **Measured SAAMI**
- **REMARKS**
  - BARREL HEATED TO 160 F PRIOR TO TESTING.
  - 100 YARD DISPERSION (5 SHOT GROUP): 2.530"
  - POINT OF AIM VS. POINT OF IMPACT: 1.68" HIGH, 0.80" LEFT

### Statistics
- **No. Data Points:** 30
- **Maximum:** 3056
- **Minimum:** 3008
- **Extreme Variation:** 48
- **Average:** 3035
- **Standard Deviation:** 16.31
- **Avg +3 Std Dev.:** 3090
- **Standard Error:** 8.19
- **Avg + 2SE:** 3052
- **Avg + 5SE:** 3076

**Filename:** 11988-01 Teludyne 160 F.xls
### AMMUNITION
- **Manufacturer**: BLACK HILLS
- **Type**: .300 WIN MAG.
- **Bullet**: BOAT-TAIL HP
- **Catalog No.**: UNKNOWN
- **Lot No.**: 4513091811

### Condition
- **Case**: .300 WIN MAG.
- **Primer**: UNKNOWN
- **Bullet Wt.(gr.)**: 190
- **Powder**: UNKNOWN
- **Overall Length (in.)**: 3.309

### WEAPON
- **Type**: G7058478
- **Ser. No.**

### SET-UP
- **Range No.**: 6
- **Gunner**: BLACK
- **Recorder**: UNGER

### VELOCITY DATA

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### RESULTS
- **No. Data Points**: 5
- **Maximum**: 3014
- **Minimum**: 2973
- **Extreme Variation**: 41
- **Average**: 2997
- **Standard Deviation**: 16.92
- **Avg. +5 SE**: 3034

### REMARKS
- BARREL COOLED TO -60 F PRIOR TO TESTING.
- 100 YARD DISPERSION (5 SHOT GROUP): 4.571"
- POINT OF AIM VS. POINT OF IMPACT: 1.29" HIGH, 1.31" LEFT
### AMMUNITION
- **Manufacturer:** BLACK HILLS
- **Type:** .300 WIN MAG.
- **Bullet:** BOAT-TAIL HP
- **Catalog No.:** UNKNOWN
- **Lot No.:** 4513091811
- **Case:** .300 WIN MAG.
- **Primer:** UNKNOWN
- **Bullet Wt.(gr.):** 190
- **Powder:** UNKNOWN
- **Overall Length (in.):** 3.309
- **Conditioning:** AMBIENT
- **Loader:** UNKNOWN
- **Date Recd.:** 10/17/11
- **Via:** HAND CARRIED
- **Returned:** REMINGTON MODEL

### WEAPON
- **Type:** G7058478
- **Ser. No.:**
- **Barrel Length (in.):**
- **Reference Firing Date:**
- **Range No.:** 6
- **Gunner:** BLACK
- **Recorder:** UNGER
- **Velocity Correction (fps):**

### SET-UP
- **Vel. Screen 1:** 5
- **Vel. Screen 2:** 25

### Results

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### Remarks
- **Cold Bore**
- **100 YARD DISPERSION (5 SHOT GROUP): 0.962"**
- **POINT OF AIM VS. POINT OF IMPACT: 3.42" HIGH, 1.00" LEFT**
- **TEST DURATION: 55 MINUTES**

**RESULTS**
- **No. Data Points:** 5
- **Maximum:** 3039
- **Minimum:** 2980
- **Extreme Variation:** 58
- **Average:** 3004
- **Standard Deviation:** 20.07
- **Avg +3 Std. Dev.:** 3064
- **Standard Error:** 8.97
- **Avg +2SE:** 3022
- **Avg +5SE:** 3049

**SAAMI**
- **Regmt.**
**Shots Fired:** 10  
**Atmospheric Conditions:** Indoor Range, 65°F  
**Rifle Conditions:** Locked in HP White Precision Rifle Fixture  
**Barrel Temperature:** Heated on one side  
**Sights Used:** 6-24x56 target optic mounted to a pic rail, mounted on the rifle's receiver  
**Ammo Used:** Factory new 190 GR BTHP Match Lot# 4513091811  
**Distance:** 100 yards  
**Notes:** To simulate the effects of long term sun exposure, the test rifle was locked in a fixture with a directional torpedo heater pointed at one side of the barrel at a 5 ft distance for a one hour period. The rifle was removed from conditioning and tested immediately.
HP White Test Cycle - HPWLI 11988-01C-2
Directional Heat Influence Test

Shots Fired: 10
Atmospheric Conditions: Indoor Range, 65°F
Rifle Conditions: Locked in HP White Precision Rifle Fixture
Barrel Temperature: Ambient
Sights Used: 6-24x56 target optic mounted to a pic rail, mounted on the rifle's receiver
Ammo Used: Factory new 190 GR BTHP Match Lot# 4513091811
Distance: 100 yards
Notes: Following the sun exposure test, the rifle was allowed to return to ambient temperature prior to testing. All shots were fired without any cool down time allowed.
30 November 2011
(HPWLI 11988-01C)

Teludyne Tech
1018 S. Batesville Road 3-D
Greer, SC 29650

Attention: Noel Lasure

In accordance with your instructions, H.P. White Laboratory, Inc. conducted Velocity and Dispersion Testing of one Remington Model 700, chambered in .300 Winchester Magnum, identified as S/N: G7058478 received 17 October 2011 via Federal Express.

Testing was conducted using caliber .300 Win. Mag., Black Hills, 190 gr. Boat-Tail Hollow Point, Lot 4513091811. The test sample was fixtured on an indoor range using a universal firearms mounting system. Photoelectric infrared screens were positioned at 5.0 and 25.0 feet which, in conjunction with dual elapsed time counters (chronographs), were used to compute projectile velocities 15.0 feet forward of the muzzle. Dispersion target was fixtured 100 yards from muzzle. Sighting optics mounted on the firearm was used to determine point of aim. Temperature conditions were achieved by placing a directional torpedo heater on one side of the barrel at a distance of five feet for a period of one hour. The firearm was removed from conditioning and tested immediately. Table I presents a summary of the enclosed data records.

Testing was conducted on 17 October 2011 with the firearm in its original configuration. On 2 November 2011 testing was conducted with the Teludyne Tech. Straight Jacket System installed. James W Armstrong, Firearms Examiner for Greenville County Crime Lab performed a bullet comparison on a single round fired 26 September 2011 with the firearm in its pre-jacketed state. On 1 November 2011 another single round was fired with the Straight Jacket system installed on the firearm. It was determined that the pre-jacketed bullet and the post-jacketed bullet were fired from the same barrel.

This report is based on data obtained from having tested only the sample submitted, and should NOT be interpreted as an endorsement by H.P. White Laboratory, Inc. of the continuing quality, or performance, of any other items of the same, or similar, design.

The test sample was returned into the custody of your on-site representative. Should you have any questions regarding this matter, or if we may be of any further service, please do not hesitate to contact us.

Sincerely,

H.P. White Laboratory, Inc.

Kevin Black

KB/sh
Enclosures