Total Quality. Assured.

TEST REPORT Number: GZHT90733361

Applicant: ANHUI PROVINCE JING YE LABOR PROTECTION SUPPLIES CO.,LTD
NO.140，TIYU ROAD,MINGGUANG INDUSTRIAL ZONE,ANHUI PROVINCE
Attn: LOUIS YE

Date: Sep 21, 2017

Sample Description:

Two (2) groups of submitted samples said to be:
(A) Seven (7) pairs of Injection lace up safety ankle boots in Black
(B) Seven (7) pairs of Injection lace up low cut safety shoes in Black.

Standard	:	EN ISO 20345:2011
Size	:	UK 3, 8, 11, 13
Ref.	:	Manufacturer: ANHUI JINGYE SHOES Country of Original: ANHUI, CHINA
Insert Plate	:	Steel plate
Toe Cap	:	Steel toe cap
Sole	:	PU
Upper	:	Black split leather
Vamp Lining	:	Black non woven fabric
Quarter Lining	:	Black mesh
Tongue	:	Black PU
Collar	:	Black PU
Insole	:	Non woven fabric
Removable Full Insock	:	EVA+Black mesh
Previous Report Number	:	--
Date Received/Date Test Started:		Aug 31, 2017
Date Final Information Confirmed/ Date Payment Received:		--/Sep 21, 2017

Test Result Please Refer To Attached Page(S).

Should you have any query on this report, you may contact at gzfootwear@intertek.com

Authorized By:
For Intertek Testing Services Shenzhen Ltd.
Guangzhou Branch

Huang Ning, Andy
Assistant General Manager

YJ / nicoleho

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Tests Conducted (As Requested By The Applicant)

1 Height Of Upper (Design) (EN ISO 20344:2011(6.2))

Sample	Size	Results	Design B Requirement	Pass/Fail
(A)	3	145 mm	Min. 103 mm	Pass
	8	161 mm	Min. 113 mm	Pass
	13	175 mm	Min. 121 mm	Pass

Sample	Size	Results	Design A Requirement	Pass/Fail
(B)	3	93 mm	＜ 103 mm	Pass
	8	97 mm	＜ 113 mm	Pass
	13	105 mm	＜ 121 mm	Pass

Expanded Uncertainty: 0.79 mm, With k= 2.19 At 95% Confidence Level.

2 Seat Region (Design) (EN ISO 20345:2011(5.2.3))

Sample	Size	Assessment	Requirement	Pass/Fail
(A)	3	The Seat Region Was Closed. In This Area Of The Upper, There Are No Holes Other Than To Form Seams.	*	Pass
	8	The Seat Region Was Closed. In This Area Of The Upper, There Are No Holes Other Than To Form Seams.	*	Pass
	13	The Seat Region Was Closed. In This Area Of The Upper, There Are No Holes Other Than To Form Seams.	*	Pass

Sample	Size	Assessment	Requirement	Pass/Fail
(B)	3	The Seat Region Was Closed. In This Area Of The Upper, There Are No Holes Other Than To Form Seams.	*	Pass
	8	The Seat Region Was Closed. In This Area Of The Upper, There Are No Holes Other Than To Form Seams.	*	Pass
	13	The Seat Region Was Closed. In This Area Of The Upper, There Are No Holes Other Than To Form Seams.	*	Pass

Remark: * = The Seat Region Shall Be Closed. In This Area Of The Upper, Below The Minimum Height Given In Below, There Shall Be No Holes Other Than To Form Seams. Assessment

Sample A		Sample B	
Size 3	44 mm	Size 3	44 mm
Size 8	50 mm	Size 8	50 mm
Size 13	53 mm	Size 13	53 mm

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3 Specific Ergonomic Features (Whole Footwear) (EN ISO 20344:2011(5.1))

Sample	Size	Assessment		Requirement	Pass/Fail
(A)	3	Left	All The Answers Are Positive.	*	Pass
		Right	All The Answers Are Positive.	*	Pass
	8	Left	All The Answers Are Positive.	*	Pass
		Right	All The Answers Are Positive.	*	Pass
	11	Left	All The Answers Are Positive.	*	Pass
		Right	All The Answers Are Positive.	*	Pass

Sample	Size	Assessment		Requirement	Pass/Fail
(B)	3	Left	All The Answers Are Positive.	*	Pass
		Right	All The Answers Are Positive.	*	Pass
	8	Left	All The Answers Are Positive.	*	Pass
		Right	All The Answers Are Positive.	*	Pass
	11	Left	All The Answers Are Positive.	*	Pass
		Right	All The Answers Are Positive.	*	Pass

Remark: * = All The Answers Are Positive In The Questionnaire As Below:
Question 1: Is The Inside Surface Of The Footwear Free From Rough, Sharp Or Hard Areas That Caused You Irritation Or Injury?
Question 2: Is The Footwear Free Of Features That You Consider To Make Wearing The Footwear Hazardous?
Question 3: Can The Fastening Be Adequately Adjusted (If Necessary)?
Question 4: Can The Following Activities Be Performed Without Problems?
4.1 Walking
4.2 Climbing Stairs
4.3 Kneeling/ Crouching Down (It Is Not Applicable If The Footwear Is Rigid In Accordance With ISO 20344, 8.4.1.)

4 Construction (Whole Footwear) (EN ISO 20345:2011(5.3.1.1))

Sample	Size	Assessment	Requirement	Pass/Fail
(A)	3	The Insole Cannot Be Removed Without Damaging The Footwear.	*	Pass
	8	The Insole Cannot Be Removed Without Damaging The Footwear.	*	Pass
	13	The Insole Cannot Be Removed Without Damaging The Footwear.	*	Pass

Remark: * = The Insole Cannot Be Removed Without Damaging The Footwear.
If There Is No Insole, A Permanently Attached Insock Shall Be Present.

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Tests Conducted (As Requested By The Applicant)

5 Upper/Outsole Bond Strength (Whole Footwear) (EN ISO 20344:2011(5.2))

Sample	Size	Results	Requirement	Pass/Fail
(A)	3	5.6 N/mm	*	Pass
	8	6.1 N/mm	*	Pass
	13	4.8 N/mm	*	Pass

Remark: * = Min. 4.0 N/mm, If The Sole Was Torn, Min. 3.0 N/mm

Expended Uncertainty: 0.10 N/mm, With k= 2 At 95% Confidence Level.

6 General (Toe Protection) (EN ISO 20345:2011(5.3.2.1))

Sample	Size	Assessment	Requirement	Pass/Fail
(A)	3	The Toecap Cannot Be Removed Without Damaging The Footwear. Edge Covering Beneath Toecap: 9 mm Edge Covering Behind Toecap: 14 mm Width Of Toecap Flange: 6 mm The Scuff -Resistant Covering Is Not Present. Vamp Lining Present.	*	Pass
	8	The Toecap Cannot Be Removed Without Damaging The Footwear. Edge Covering Beneath Toecap: 8 mm Edge Covering Behind Toecap: 13 mm Width Of Toecap Flange: 6 mm The Scuff -Resistant Covering Is Not Present. Vamp Lining Present.	*	Pass
	13	The Toecap Cannot Be Removed Without Damaging The Footwear. Edge Covering Beneath Toecap: 9 mm Edge Covering Behind Toecap: 14 mm Width Of Toecap Flange: 6 mm The Scuff -Resistant Covering Is Not Present. Vamp Lining Present.	*	Pass

Remark: * = The Toecap Cannot Be Removed Without Damaging The Footwear.
Edge Covering Beneath Toecap: Min. 5 mm
Edge Covering Behind Toecap: Min. 10 mm
Width Of Toecap Flange: Max. 10 mm
Thickness Of Scuff-Resistant Covering: Min. 1 mm
Footwear Shall Have A Vamp Lining Or An Element Of The Upper That Serves As A Lining.

Expanded Uncertainty:
Edge Covering Beneath Toecap: 0.29 mm, With k= 1.96 At 95% Confidence Level.
Edge Covering Behind Toecap: 0.45 mm, With k= 2.1 At 95% Confidence Level.
Width Of Toecap Flange: 0.45 mm, With k= 2.1 At 95% Confidence Level.

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7 Impact Resistance Of Safety Footwear (EN ISO 20344:2011(5.4))

Test Condition:
Mass Of Striker: (20±0.2) kg
Impact Energy: (200±4) J

Sample	Size	Results		Requirement	Pass/Fail
(B)	3	Left	15.0 mm	Min. 12.5 mm (#)	Pass
		Right	15.5 mm	Min. 12.5 mm (#)	Pass
	8	Left	17.5 mm	Min. 14.0 mm (#)	Pass
		Right	17.5 mm	Min. 14.0 mm (#)	Pass
	13	Left	18.5 mm	Min. 15.0 mm (#)	Pass
		Right	19.5 mm	Min. 15.0 mm (#)	Pass

Remark: # = In Addition, The Toecap Shall Not Develop Any Cracks Which Go Through The Material, i.e. Through Which Light Can Be Seen.

Expanded Uncertainty: 0.36(Urel), With k=1.96 At 95% Confidence Level.

8 Compression Resistance Of Safety Footwear (EN ISO 20344:2011(5.5))

Test Condition:
Compression Speed: (5±2) mm/min
Load: (15±0.1) kN

Sample	Size	Results		Requirement	Pass/Fail
(B)	3	Left	17.0 mm	Min. 12.5 mm	Pass
		Right	17.5 mm	Min. 12.5 mm	Pass
	8	Left	19.5 mm	Min. 14.0 mm	Pass
		Right	20.5 mm	Min. 14.0 mm	Pass
	13	Left	20.5 mm	Min. 15.0 mm	Pass
		Right	19.0 mm	Min. 15.0 mm	Pass

Expended Uncertainty: 0.13 mm, With k= 1.96 At 95% Confidence Level.

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9 Slip Resistance (EN ISO 20344:2011(5.11) & ISO 13287:2012, SRC, Temperature: 23℃)

Sample	Size	Test Floor	Lubricant	Modes	Results	Requirement	Pass/Fail
(B)	3 (Left)	Eurotile 2	NaLS	Forward Heel Slip (#1)	0.31	Min. 0.28	Pass
				Forward Flat Slip (#2)	0.33	Min. 0.32	Pass
		Steel Floor	Glycerine	Forward Heel Slip (#1)	0.13	Min. 0.13	Pass
				Forward Flat Slip (#2)	0.18	Min. 0.18	Pass
	8 (Right)	Eurotile 2	NaLS	Forward Heel Slip (#1)	0.31	Min. 0.28	Pass
				Forward Flat Slip (#2)	0.35	Min. 0.32	Pass
		Steel Floor	Glycerine	Forward Heel Slip (#1)	0.13	Min. 0.13	Pass
				Forward Flat Slip (#2)	0.21	Min. 0.18	Pass
	13 (Left)	Eurotile 2	NaLS	Forward Heel Slip (#1)	0.33	Min. 0.28	Pass
				Forward Flat Slip (#2)	0.37	Min. 0.32	Pass
		Steel Floor	Glycerine	Forward Heel Slip (#1)	0.14	Min. 0.13	Pass
				Forward Flat Slip (#2)	0.22	Min. 0.18	Pass

Note:
It Must Be Noted That The Slip Resistance Test Carried Out In This Report Denotes An Indication Of Slip Of This Particular Footwear/Component On The Surface Mentioned In The Test Item. It Is Important To Note That Footwear Is Subject To Many Different Conditions Encountered In Everyday Use And That It Is Impossible To Make Footwear Resistant To Slip In All Conditions. Nevertheless, It Is Generally Accepted That Problems Are Minimized If The Guideline Coefficients Of Friction Are Achieved.

Remark: #1 = Using Standard Shoemaking Last
#2 = Using Mechanical Foot

Expanded Uncertainty: 0.01, With k = 2.03 At 95% Confidence Level.

10 Penetration Resistance (Whole Footwear With Metallic Anti-penetration Insert) (EN ISO 20344:2011(5.8.2))

Sample	Size	Results		Requirement	Pass/Fail
(A)	3	Left	1 342 N	Min. 1 100 N	Pass
		Right	1 447 N	Min. 1 100 N	Pass
	8	Left	1 398 N	Min. 1 100 N	Pass
		Right	1 535 N	Min. 1 100 N	Pass
	13	Left	1 511 N	Min. 1 100 N	Pass
		Right	1 391 N	Min. 1 100 N	Pass

Expanded Uncertainty: 16.99 N, With k=2.26 At 95% Confidence Level.

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11 Construction (Whole Footwear) EN ISO 20345:2011(6.2.1.2)

Sample	Size	Assessment		Requirement	Pass/Fail
(A)	3	Left	Comply With Requirement.	*	Pass
		Right	Comply With Requirement.	*	Pass
	8	Left	Comply With Requirement.	*	Pass
		Right	Comply With Requirement.	*	Pass
	13	Left	Comply With Requirement.	*	Pass
		Right	Comply With Requirement.	*	Pass

Remark: * = The Penetration Resistance Insert Can Not Be Removed Without Damaging The Footwear. Except For Non-Metallic Inserts That Also Function As An Insole, The Insert Shall Not Lie Above The Flange Of The Safety Toecap And Shall Not Be Attached To It

12 Dimensions (Whole Footwear) (EN ISO 20344:2011(5.8.1))

Sample	Size	Results		Requirement	Pass/Fail
(A)	3	Left	Except The Heel Region: 4 mm In The Heel Region: 5.5 mm The Penetration-Resistant Insert Has No Holes.	*	Pass
		Right	Except The Heel Region: 0 mm In The Heel Region: 5 mm The Penetration-Resistant Insert Has No Holes.	*	Pass
	8	Left	Except The Heel Region: 4 mm In The Heel Region: 5 mm The Penetration-Resistant Insert Has No Holes.	*	Pass
		Right	Except The Heel Region: 2 mm In The Heel Region: 5 mm The Penetration-Resistant Insert Has No Holes.	*	Pass
	13	Left	Except The Heel Region: 4 mm In The Heel Region: 5.5 mm The Penetration-Resistant Insert Has No Holes.	*	Pass
		Right	Except The Heel Region: 3 mm In The Heel Region: 3.5 mm The Penetration-Resistant Insert Has No Holes.	*	Pass

Remark: * = The Distance Between The Line Represented By The Feather Edge Of The Last And The Edge Of The Insert:
Except The Heel Region: Max. 6.5 mm
In The Heel Region: Max. 17 mm
The Penetration-Resistant Insert Shall Have No More Than Three Holes With A Maximum Diameter Of 3 mm To Attach It To The Bottom Of Footwear. The Holes Shall Not Lie In The Area Specified

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13 Antistatic Footwear (Electrical Resistance) (EN ISO 20344:2011(5.10))

Test Condition:

Condition:	Dry	Wet
Temperature:	(20±2) ℃	(20±2) ℃
Relative Humidity:	(30±5) %	(85±5) %
Period:	7 Days	
Internal Electrode:	(4±1) kg Steel Balls Of 5 mm Diameter	
Test Voltage:	(100±2) V DC	
Test Period:	1 Minute	

Sample	Condition	Size	Results		Requirement	Pass/Fail
(B)	Dry	3	Left	**2 000 MΩ**	*	**Fail**
			Right	**4 300 MΩ**	*	**Fail**
		8	Left	**1 200 MΩ**	*	**Fail**
			Right	**1 125 MΩ**	*	**Fail**
		13	Left	**3 500 MΩ**	*	**Fail**
			Right	**2 500 MΩ**	*	**Fail**
	Wet	3	Left	66.5 MΩ	*	Pass
			Right	30.3 MΩ	*	Pass
		8	Left	32.5 MΩ	*	Pass
			Right	31.5 MΩ	*	Pass
		13	Left	24.2 MΩ	*	Pass
			Right	21.4 MΩ	*	Pass

Remark: * = Above 100 kΩ And Less Than Or Equal To 1 000 MΩ

Expanded Uncertainty: 1.13 MΩ, With k= 2.06 At 95% Confidence Level.

14 Energy Absorption Of Seat Region (Whole Footwear) (EN ISO 20344:2011(5.14))

Sample	Size	Results		Requirement	Pass/Fail
(B)	3	Left	34 Joules	Min. 20 Joules	Pass
		Right	32 Joules	Min. 20 Joules	Pass
	8	Left	38 Joules	Min. 20 Joules	Pass
		Right	38 Joules	Min. 20 Joules	Pass
	13	Left	40 Joules	Min. 20 Joules	Pass
		Right	38 Joules	Min. 20 Joules	Pass

Expanded Uncertainty: 0.26 Joule, With k=2.11 At 95% Confidence Level.

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15 General (Upper) (EN ISO 20345:2011(5.4.1))

Sample	Size	Assessment	Requirement	Pass/Fail
(A)	3	Black Split Leather Upper Should Completely Fulfill The Upper Requirements.	*	N/A
	8	Black Split Leather Upper Should Completely Fulfill The Upper Requirements.	*	N/A
	13	Black Split Leather Upper Should Completely Fulfill The Upper Requirements.	*	N/A

Remark: * = Min. Height, Below Which The Upper Requirements Shall Be Fulfilled.

Sample A	
Size 3	64 mm
Size 8	70 mm
Size 13	73 mm

N/A = No Conclusion Since It Is Just A Judgment Testing.

16 Construction (Upper) (EN ISO 20345:2011(6.3))

Sample	Size	Assessment	Requirement	Pass/Fail
(A)	3	Comply With Requirement	*	Pass
	8	Comply With Requirement	*	Pass
	13	Comply With Requirement	*	Pass

Remark: * = Non-Functional And Decorative Stitching And Perforations Shall Not Be Used On Footwear For Which Water Resistance Of The Upper Is Claimed.
When The Requirement Of Water Resistance For Whole Footwear Has Been Met, Non-Functional And Decorative Stitching And Perforations Are Acceptable.

17 Cleated Area (Outsole) (EN ISO 20345:2011(5.8.1.2))

Sample	Size	Results	Requirement	Pass/Fail
(A)	3	Specified Areas Have Cleats, Which Are Open To The Side. Front Cleats Area: 0.49 L Heel Cleats Area : 0.31 L	*	Pass
	8	Specified Areas Have Cleats, Which Are Open To The Side. Front Cleats Area: 0.50 L Heel Cleats Area : 0.31 L	*	Pass
	13	Specified Areas Have Cleats, Which Are Open To The Side. Front Cleats Area: 0.49 L Heel Cleats Area : 0.31 L	*	Pass

Remark: * = Specified Area Shall Have Cleats, Which Are Open To The Side.
Front Cleats Area: Min. 0.45 L.
Heel Cleats Area : Min. 0.25 L.

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18 Cleat Height (Cleated Outsole) (EN ISO 20344:2011(8.1))

Sample	Size	Results	Requirement	Pass/Fail
(A)	3	4.2 mm	Min. 2.5 mm	Pass
	8	4.3 mm	Min. 2.5 mm	Pass
	13	4.5 mm	Min. 2.5 mm	Pass

Expanded Uncertainty: 0.13 mm, With k= 2.03 At 95% Confidence Level.

19 Thickness (Outsoles) (EN ISO 20344:2011(8.1.2))

Sample	Size	Results (Class Ⅰ)		Requirement	Pass/Fail
		Type Of Outsole	d_1		
(B)	3	Cleated	7.5 mm	Min. 4 mm	Pass
	8	Cleated	6.0 mm	Min. 4 mm	Pass
	13	Cleated	6.0 mm	Min. 4 mm	Pass

Expanded Uncertainty: 0.07 mm, With k= 1.96 At 95% Confidence Level.

20 Tear Strength (Outsole) (EN ISO 20344:2011(8.2), ISO 34-1:2010, Method A)

Sample	Size	Density	Results	Requirement	Pass/Fail
(A)	3	0.6 g/cm^3	**3.5 kN/m**	*	**Fail**
	8	0.6 g/cm^3	**4.2 kN/m**	*	**Fail**
	13	0.6 g/cm^3	**4.9 kN/m**	*	**Fail**

Remark: * = Density: ≤ 0.9 g/cm^3, Min. 5 kN/m

Expanded Uncertainty: 0.32 kN/m, With k= 2.26 At 95% Confidence Level.

21 Abrasion Resistance (Outsole) (EN ISO 20344:2011(8.3), ISO 4649:2010, Method A)

Sample	Size	Density	Results	Requirement	Pass/Fail
(A)	3	0.6 g/cm^3	148.8 mm^3	*	Pass
	8	0.6 g/cm^3	196.1 mm^3	*	Pass
	13	0.6 g/cm^3	192.0 mm^3	*	Pass

Remark: * = Density: ≤ 0.9 g/cm^3, Max. 250 mm^3

Expanded Uncertainty: 1.76 mm^3, With k= 1.96 At 95% Confidence Level.

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Tests Conducted (As Requested By The Applicant)

22 Rigidity Test (Outsole) (EN ISO 20344:2011(8.4))

Sample	Size	Result
(A)	8	>50°

Conclusion: There's Need To Be Performed The Flexing Test.

NOTE Footwear Whose Angle Under The Applied Force Is Lower Than 45° From The Horizontal Is Not Subjected To The Flexing Test.

23 Flexing Resistance (Outsole) (EN ISO 20344:2011(8.4))

Sample	Size	Results (Cut Growth)	Requirement	Pass/Fail
(A)	3	0 mm **(#1)** & (#2)	Max. 4 mm (*)	**Fail**
	8	0 mm (#2) & **(#3)**	Max. 4 mm (*)	**Fail**
	13	0 mm	Max. 4 mm (*)	Pass

Remark: * = Spontaneous Cracks Are Acceptable In The Following Circumstances.
a) Only The Centre Of The Tread Area Shall Be Assessed For Cracking, i.e. Cracks Under The Toecap Zone Shall Be Ignored.
b) Superficial Cracks Up To 0.5 mm Deep Shall Be Ignored.
c) Soles Shall Be Deemed To Be Satisfactory If Cracks Are No Deeper Than 1.5 mm, No Longer Than 4 mm And No More Than Five In Number.
#1= One New Crack With The Depth Of More Than 1.5 mm Was Found To Be 8.0 mm Long In The Flexing Area.
#2= The Steel Insert In The Outsole Was Cracked
#3= Two New Cracks With The Depth Of More Than 1.5 mm Were Found At The Base Of Cleat In The Inside And Outside Of Flexing Area, The Max. Length Of Which Is 53.0 mm.

Expanded Uncertainty: 0.06 mm, With k= 1.96 At 95% Confidence Level.

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24 Hydrolysis (Outsole) (EN ISO 20344:2011(8.5), ISO 5423:1992, Annex C&E)

Test Condition:

Hydrolysis Procedure (ISO 5423:1992 Annex E)	Temperature step 1:	(70±1) ℃ For 7 Days
	Temperature step 2:	(23±2) ℃ For 24 h
Flexing Procedure (ISO 5423:1992 Annex C)	Temperature:	(-5±2) ℃
	Flex Cycles:	150,000

Sample	Size	Results (Cut Growth)	Requirement	Pass/Fail
(A)	3	0 mm	Max. 6 mm	Pass
	8	0 mm	Max. 6 mm	Pass
	13	0 mm	Max. 6 mm	Pass

Expanded Uncertainty: 0.08 mm, with k=1.96 at 95% Confidence Level.

25 Resistance To Fuel Oil (Outsole) (EN ISO 20344:2011(8.6.1), ISO 1817:2011(8.3), EN ISO 868:2003)

Sample	Size	Results	Requirement	Pass/Fail
(A)	3	Change In Volume: +3.96%	Max. +12%(*)	Pass
	8	Change In Volume: +2.38%	Max. +12%(*)	Pass
	13	Change In Volume: +1.10%	Max. +12%(*)	Pass

Remark: * = If The Test Piece Shrinks By More Than 1% In Volume Or Increase In Hardness By More Than 10 Shore A Hardness Units, Then A Further Flex Test Shall Be Performed In Accordance With The Method Described In EN ISO 20344:2011, 8.6.2.
(+) Means Increase And (-) Means Shrinkage.

Expended Uncertainty: 0.16%, With k= 2.13 At 95% Confidence Level.

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