| NEBRASK | ٨ | | | | Dire | ctor of Agriculture |
|-----------------------------|--------------------------|--------------|-----------------------|--------------------------|-----------------------------|------------------------|
| NEDRAJA | TT N | | Standards La | | | Greg Ibach |
| | 1 | | 21 West Cuming St | | P.O. Box 94947 | |
| Good Life. Great Ro | OTS. | L | incoln, NE 68524 | | Linc | oln, NE 68509-4947 |
| | | | (402)-471-2087 | | | (402) 471-2341 |
| DEPARTMENT OF AGRICULT | TURE | | | | WWW | .nda.nebraska.gov |
| | Calil | bratio | n Certificat | te of Mass | | |
| Calibration Date: | July 26, 2017 | | | Certificate Num | ber: | 2017-010-1 |
| Submitted By: FSC 254 | EP Area 60 E 14 th St | | | Point of Contact: T P | odd Blaske h. 402-430-57 | 732 |
| Wal | hoo, NE 68066 | | | <u>email:</u> w | ww.nda.gov | |
| | | | | PO Number: | | |
| | | | | | | |
| Test Item: 31 l | b weight kit | A | tifact(s) Description | n: Date | e Received: | luly 20, 2017 |
| Serial Number: 14A | 9 | | | ID / Ass | et Number: | N/A |
| Manufacture: Tron | mner | | | Class Sp | ecification: | NIST Class F |
| Condition: Goo | d (some wear) | | | | Material: | SS |
| Reference Standards U | lsed: | | Procedure Used: | | <u>Equipme</u> | nt Used: |
| NSL lb standards | | | NIST HB 6969, SOP 8 | Sarte | orius CC 1201 | Sartorius CCE6 |
| Rice Lake NSL-WK | | | Metrologist: | Μ | ettler AT 106 | |
| | | | JPL | | | |
| Environmental Cond. | Temp: 22.8 °C | Pressure: | 763.27 mmHg | Relative Humidity: | 49 % | |
| | | Р | ertinent Informatio | <u>n</u> | | |
| • The artifact(s) listed in | | | | • | | |
| above, except as noted. Ar | n artifact is consid | ered in-comp | iance when the correc | tion plus the measuren | nent uncertain | ty is equal to or less |

than the maximum permissible error. RED print indicates an out-of-compliance reading.

• All corrections stated in this report correlate to a "Conventional Mass" (CM), also known as "apparent mass", scale verses 8.0 g/cm³ reference mass density and an air density of 1.2 mg/cm3 at 20 °C.

Traceability Statement

The artifact(s) described in this certificate have been compared to the Standards of the State of Nebraska. The Standards of the State of Nebraska are traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST) and are part of a comprehensive measurement assurance program for ensuring continued accuracy and measurement traceability within the level of uncertainty reported by this laboratory. The calibration number for this certificate is the only unique calibration number to be used in referencing measurement traceability for the artifact(s) described in this certificate.

Uncertainty Statement

The combined standard uncertainty includes uncertainties reported for the standard, uncertainties associated with the measurement process, uncertainties for any observed deviations from reference values which are less than surveillance limits and the standard uncertainty for any uncorrected errors associated with air buoyance corrections. The combined standard uncertainty is multiplied by a coverage factor (k), to give the expanded uncertainty, which defines an interval with a 95.45 percent level of confidence. The expanded uncertainty presented in this report is consistent with the Guide to the Expression of Uncertainty in Measurement (2008, revised 2012). Some components of the calibration can be evaluated through a Type A evaluation, or the method of evaluation of uncertainty by the statistical analysis (standard deviation) from the observations taken. Magnetic testing has not been performed, therefore, there are no components for the effects of it in the uncertainty budget.



Nebraska Standards Laboratory

Good Life. Great Roots.

3721 West Cuming St. Lincoln, NE 68524 (402)-471-2087 Director of Agriculture Greg Ibach P.O. Box 94947 Lincoln, NE 68509-4947 (402) 471-2341 www.nda.nebraska.gov

2017-010-1

DEPARTMENT OF AGRICULTURE

Calibration Date: July 26, 2017

| | Calibration Results | | | | | | | | | |
|--------------|-----------------------|---|-------------------|---|----------------------|---------------|---------------------------|---|--|--|
| Nominal Mass | Serial Number / ID | As Found Conventional Mass Correction (g) | Adjusted (Y/N) | As Left Conventional Mass Correction (g) | Uncertainty ± (g) | (k) factor | NIST Class F MPE ± (g) | Assumed Density (g/cm ³) | | |
| 2 lb | 1 | -0.058 | n | -0.058 | 0.011 | 2 | 0.091 | 7.84 | | |
| 2 lb | 2 | -0.016 | n | -0.016 | 0.011 | 2 | 0.091 | 7.84 | | |
| 2 lb | 3 | -0.060 | n | -0.060 | 0.011 | 2 | 0.091 | 7.84 | | |
| 2 lb | 4 | -0.024 | n | -0.024 | 0.011 | 2 | 0.091 | 7.84 | | |
| 2 lb | 5 | -0.041 | n | -0.041 | 0.011 | 2 | 0.091 | 7.84 | | |
| 2 lb | 6 | -0.028 | n | -0.028 | 0.011 | 2 | 0.091 | 7.84 | | |
| 2 lb | 7 | -0.014 | n | -0.014 | 0.011 | 2 | 0.091 | 7.84 | | |
| 2 lb | 8 | -0.028 | n | -0.028 | 0.011 | 2 | 0.091 | 7.84 | | |
| 2 lb | 9 | -0.057 | n | -0.057 | 0.011 | 2 | 0.091 | 7.84 | | |
| 2 lb | 10 | 0.002 | n | 0.002 | 0.011 | 2 | 0.091 | 7.84 | | |
| 2 lb | 11 | -0.018 | n | -0.018 | 0.011 | 2 | 0.091 | 7.84 | | |
| 2 lb | 12 | -0.040 | n | -0.040 | 0.011 | 2 | 0.091 | 7.84 | | |
| 2 lb | 13 | -0.057 | n | -0.057 | 0.011 | 2 | 0.091 | 7.84 | | |
| 2 lb | 14 | -0.036 | n | -0.036 | 0.011 | 2 | 0.091 | 7.84 | | |
| 1 lb | 15 | -0.0157 | n | -0.0157 | 0.0083 | 2 | 0.07 | 7.84 | | |
| 1 lb | 16 | -0.0250 | n | -0.0250 | 0.0083 | 2 | 0.07 | 7.84 | | |
| 8 oz | | 0.0139 | n | 0.0139 | 0.0054 | 2 | 0.045 | 7.94 | | |
| 4 oz | | 0.0092 | n | 0.0092 | 0.0028 | 2 | 0.023 | 7.84 | | |
| 2 oz | | -0.0003 | n | -0.0003 | 0.0013 | 2 | 0.011 | 7.84 | | |
| 1 oz | | -0.0008 | n | -0.00008 | 0.00064 | 2 | 0.0054 | 7.84 | | |
| 1/2 oz | | -0.00018 | n | -0.00018 | 0.00035 | 2.001 | 0.0028 | 7.84 | | |
| 1/4 oz | | 0.00082 | n | 0.00082 | 0.00021 | 2 | 0.0017 | 7.84 | | |
| 1/8 oz | | -0.00056 | n | -0.00056 | 0.00016 | 2 | 0.0013 | 7.84 | | |
| 1/16 oz | | 0.00051 | n | 0.00051 | 0.00013 | 2 | 0.0011 | 7.84 | | |
| 1/16 oz | * | 0.00064 | n | 0.00064 | 0.00013 | 2 | 0.0011 | 7.84 | | |
| 0.3 lb | | -0.0086 | n | -0.0086 | 0.0032 | 2 | 0.027 | 7.84 | | |
| 0.2 lb | | -0.0032 | n | -0.0032 | 0.0022 | 2 | 0.018 | 7.84 | | |
| 0.1 lb | | -0.0027 | n | -0.0027 | 0.0011 | 2 | 0.0091 | 7.84 | | |
| 0.05 lb | | 0.00194 | n | 0.00194 | 0.00054 | 2 | 0.0045 | 7.84 | | |
| 0.03 lb | | -0.00212 | n | -0.00212 | 0.00032 | 2 | 0.0027 | 7.84 | | |
| 0.02 lb | | 0.00045 | n | 0.00045 | 0.00022 | 2 | 0.0018 | 7.84 | | |
| 0.01 lb | | -0.00070 | n | -0.00070 | 0.00018 | 2 | 0.0015 | 7.84 | | |
| 0.005 lb | | 0.00002 | n | 0.00002 | 0.00015 | 2 | 0.0012 | 2.7 | | |
| 0.003 lb | | -0.00060 | n | -0.00060 | 0.00012 | 2 | 0.00099 | 2.7 | | |
| 0.002 lb | | -0.00048 | n | -0.00048 | 0.00011 | 2 | 0.00087 | 2.7 | | |
| 0.001 lb | * | 0.000181 | n | 0.000181 | 0.000083 | 2 | 0.0007 | 2.7 | | |
| 0.001 lb | ጥ | -0.000189 | n | -0.000189 | 0.000083 | 2 | 0.0007 | Z./ | | |

Conversion Factors

1 ounce (avoirdupois) (oz) = 28.349 52 g

1 pound (avoirdupois) (lb) = 453.592 37 g exactly

gove P 3 Joel P. Lavicky Metrologist

7/31/2017

Certificate Number:

Date of Issue

The results in this certificate only applies to those item specifically listed in this certificate. This certificate cannot be considered complete unless it contains <u>all</u> pages. This document may not be reproduced except in <u>full</u>, without the written consent of the Nebraska Standards Laboratory.

| | ^ | | | Dire | ector of Agriculture |
|-----------------------------|----------------------------|---|------------------------|-----------------------------|--------------------------------|
| NEBRASK | | braska Standards Lal | boratory | DIC | Greg Ibach |
| | | 3721 West Cuming St. | _ | | P.O. Box 94947 |
| Good Life. Great Ro | oots. | Lincoln, NE 68524 | | Linc | oln, NE 68509-4947 |
| | | (402)-471-2087 | | | (402) 471-2341 |
| DEPARTMENT OF AGRICUL | TURE | | | www | .nda.nebraska.gov |
| | Calib | ration Certificat | e of Mass | | <u> </u> |
| Calibration Date: | July 24, 2017 | | Certificate Num | ber: | 2017-010-3 |
| | | | | | |
| Submitted By: FSC | LP Area 60 4 E 14 th St | | Point of Contact: To | оаа віазке 1. 402-430-57 | 722 |
| | | | | | 32 |
| VV d | hoo, NE 68066 | | PO Number: | ww.nda.gov | |
| | | | PO Number. | | |
| Test Item: 1-4 | kg, 2-15 lb, 20-25 lb | weights Artifact(s) Description | : Date | Received: | July 20, 2017 |
| Serial Number: see | below | | ID / Asse | et Number: | N/A |
| Manufacture: Tro | omner | | Class Spe | ecification: | NIST Class F |
| Condition: Goo | od (some wear) | | | Material: | SS & CI |
| Reference Standards L | Jsed: | Procedure Used: | | Equipme | nt Used: |
| NSL lb standards | | NIST HB 6969, SOP 8 | Sartori | us CC10000S | |
| Rice Lake NSL-WK | | Metrologist: | Me | ettler KA30-3 | |
| | | JPL | | | |
| Environmental Cond. | Temp: 22.8 °C | Pressure: 763.651 mmHg | Relative Humidity: | 50.5 % | |
| | · | Pertinent Information | - | | |
| • The artifact(s) listed in | this document have | been found and/or left within the | maximum permissible | error for the s | specification stated |
| above, except as noted. A | n artifact is considere | ed in-compliance when the correct | ion plus the measurem | nent uncertain | ty is equal to or less |
| t | han the maximum pe | rmissible error. <mark>RED</mark> print indicate | s an out-of-compliance | reading. | |
| • All corrections stated | • | te to a "Conventional Mass" (CM), nass density and an air density of 1 | | nt mass", scal | e verses 8.0 g/cm ³ |
| | | Traceability Statemen | - | | |
| The artifact(s) described | in this certificate hav | e been compared to the Standards | | ska. The Stand | lards of the State of |
| | | stem of Units (SI) through the Na | | | |
| are part of a comprehens | sive measurement ass | urance program for ensuring conti | nued accuracy and mea | asurement tra | ceability within the |
| | rted by this laborator | | | | |

Uncertainty Statement

used in referencing measurement traceability for the artifact(s) described in this certificate.

The combined standard uncertainty includes uncertainties reported for the standard, uncertainties associated with the measurement process, uncertainties for any observed deviations from reference values which are less than surveillance limits and the standard uncertainty for any uncorrected errors associated with air buoyance corrections. The combined standard uncertainty is multiplied by a coverage factor (*k*), to give the expanded uncertainty, which defines an interval with a 95.45 percent level of confidence. The expanded uncertainty presented in this report is consistent with the *Guide to the Expression of Uncertainty in Measurement (2008, revised 2012)*. Some components of the calibration can be evaluated through a Type A evaluation, or the method of evaluation of uncertainty by the statistical analysis (standard deviation) from the observations taken. Magnetic testing has not been performed, therefore, there are no components for the effects of it in the uncertainty budget.



NEBRASKA Nebraska Standards Laboratory 3721 West Cuming St.

Lincoln, NE 68524

(402)-471-2087

Certificate Number:

Director of Agriculture Greg Ibach P.O. Box 94947 Lincoln, NE 68509-4947 (402) 471-2341 www.nda.nebraska.gov

2017-010-3

Good Life. Great Roots.

DEPARTMENT OF AGRICULTURE

Calibration Date: July 24, 2017

| Calibi | Calibration Date. July 24, 2017 | | | | | | | | |
|---------------------|---------------------------------|---|-------------------|---|----------------------|---------------|---------------------------|---|--|
| Calibration Results | | | | | | | | | |
| Nominal Mass | Serial Number / ID | As Found Conventional Mass Correction (g) | Adjusted (Y/N) | As Left Conventional Mass Correction (g) | Uncertainty ± (g) | (k) factor | NIST Class F MPE ± (g) | Assumed Density (g/cm ³) | |
| 4 kg | WM-8 | 0.058 | n | 0.058 | 0.048 | 2 | 0.4 | 7.84 | |
| 15 lb | WM15-15 | 0.741 | У | 0.390 | 0.081 | 2 | 0.68 | 7.2 | |
| 15 lb | WM15-16 | 0.794 | У | 0.421 | 0.081 | 2 | 0.68 | 7.2 | |
| 25 lb | WM25-25 | 1.94 | у | 0.36 | 0.14 | 2 | 1.1 | 7.2 | |
| 25 lb | WM25-32 | 1.62 | у | 0.84 | 0.14 | 2 | 1.1 | 7.2 | |
| 25 lb | WM25-36 | 1.74 | У | 0.36 | 0.14 | 2 | 1.1 | 7.2 | |
| 25 lb | WM25-51 | 0.47 | n | 0.47 | 0.14 | 2 | 1.1 | 7.2 | |
| 25 lb | WM25-52 | 1.65 | У | 0.31 | 0.14 | 2 | 1.1 | 7.2 | |
| 25 lb | WM25-53 | 2.08 | У | 0.07 | 0.14 | 2 | 1.1 | 7.2 | |
| 25 lb | WM25-40 | 0.94 | n | 0.94 | 0.14 | 2 | 1.1 | 7.2 | |
| 25 lb | WM25-105 | 2.10 | У | 0.13 | 0.14 | 2 | 1.1 | 7.2 | |
| 25 lb | WM25-107 | 1.88 | У | 0.94 | 0.14 | 2 | 1.1 | 7.2 | |
| 25 lb | WM25-108 | 2.07 | У | 0.66 | 0.14 | 2 | 1.1 | 7.2 | |
| 25 lb | WM25-109 | 1.55 | У | 0.53 | 0.14 | 2 | 1.1 | 7.2 | |
| 25 lb | WM25-111 | 1.21 | У | -0.62 | 0.14 | 2 | 1.1 | 7.2 | |
| 25 lb | WM25-112 | 1.46 | У | -0.09 | 0.14 | 2 | 1.1 | 7.2 | |
| 25 lb | WM25-120 | 1.17 | У | -0.60 | 0.14 | 2 | 1.1 | 7.2 | |
| 25 lb | WM25-123 | 1.74 | У | 0.27 | 0.14 | 2 | 1.1 | 7.2 | |
| 25 lb | WM25-126 | 0.79 | n | 0.79 | 0.14 | 2 | 1.1 | 7.2 | |
| 25 lb | WM25-128 | 2.42 | У | 0.39 | 0.14 | 2 | 1.1 | 7.2 | |
| 25 lb | WM25-129 | 1.55 | У | 0.85 | 0.14 | 2 | 1.1 | 7.2 | |
| 25 lb | WM25-130 | 1.08 | У | 0.06 | 0.14 | 2 | 1.1 | 7.2 | |
| 25 lb | WM25-134 | 1.40 | У | 0.36 | 0.14 | 2 | 1.1 | 7.2 | |

Conversion Factors

1 ounce (avoirdupois) (oz) = 28.349 52 g

1 pound (avoirdupois) (lb) = 453.592 37 g exactly

Jone P 3 Joel P. Lavicky Metrologist

8/1/2017 Date of Issue

The results in this certificate only applies to those item specifically listed in this certificate. This certificate cannot be considered complete unless it contains <u>all</u> pages. This document may not be reproduced except in <u>full</u>, without the written consent of the Nebraska Standards Laboratory.

| NEBRASK Good Life. Great Ro department of agricul | at Roots. AGRICULTURE | | | | | | | | |
|---|--|-------------------------|--|---|---|--|-----------------------|------------------|------------|
| Calibration D | ate: | 7/21/2017 | | | te of Calibra | | Certificate Number: | | 2017-010-4 |
| | | of Volume Transfer | | | | | | | |
| | | | Items Subr | nitted: | | Submitted By: | FSCP Area 60 | | |
| | Quantity | Nominal Volume | ManufacturerType254 E 14 th st.Wahoo, NE 68066 | | | | | 6 | |
| | 2 5 gal Seraphin 3" Neck Test Measure POC | | | | | : Todd Blaske | | | |
| 402-430-5732 www.nda.gov Test Results | | | | | | | | | |
| | Nominal Volume | Serial Number | Material | Cubical Coefficient of Expansion (/°F) | As Found Volume Delivered @ 60 °F | As left Volume Delivered @ 60 °F | Uncertainty (U) | (k) | |
| | 5 gal | 06-01161 | SS | 0.0000265 | 5.00172 gal | 5.00172 gal | 0.00065 gal | 2.05 | |
| | 5 gal | 06-01165 | SS | 0.0000265 | 5.00114 gal | 5.00114 gal | 0.00065 gal | 2.05 | |
| | | | The data in th | is report only app | plies to those items s | specifically listed on | this report. | | |
| | Volume deliv | vered at 60°F after a 3 | 0 second pou | r and 10 second | drain for test measu | res. For provers and | l a 30 second drain t | ime would apply. | |

Conversion Factors:

1 gal = 231 in³ 1 gal = 3.785 412 E-03 m³

Traceability Statement:

The artifact(s) described in this report have been compared to the Standards of the State of Nebraska. The Standards of the State of Nebraska are traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST) and are part of a comprehensive measurement assurance program for ensuring continued accuracy and measurement traceability within the level of uncertainty reported by this laboratory. The calibration number for this report is the only unique calibration number to be used in referencing measurement traceability for the artifact(s) described in this report.

Uncertainty Statement:

The combined standard uncertainty includes uncertainties reported for the standard, uncertainties associated with the measurement process, uncertainties for any observed deviations from reference values which are less than surveillance limits and the standard uncertainty for any uncorrected errors. The combined standard uncertainty is multiplied by a coverage factor (k), to give the expanded uncertainty, which defines an interval with a 95.45 percent level of confidence. The expanded uncertainty presented in this report is consistent with the Guide to the Expression of Uncertainty in Measurement (2008, revised 2012). Some components of the calibration can be evaluated through a Type A evaluation, or the method of evaluation of uncertainty by the statistical analysis (standard deviation) from the observations taken.

Pertinent Information:

The artifact(s) listed above have been found and/or left within the maximum permissible error for the specification stated above, except as noted. An artifact is considered incompliance when the correction plus the measurement uncertainty is equal to or less than the maximum permissible error.

Minor wear

Treatment of Item(s) before Calibration:

Item(s) were tested as found

Environmental conditions at time of calibration:

| Temp °C | 25.9 | Humidity % | 43.5 | | | | | | | |
|--------------------------|------------------------------|------------|------|--|--|--|--|--|--|--|
| Pressure mmHg | 759.71 | | | | | | | | | |
| Date Submitted: | 7/20/2017 | | | | | | | | | |
| Jone P. 3 | | | | | | | | | | |
| Joel P. Lavicky, Metrolo | Joel P. Lavicky, Metrologist | | | | | | | | | |

5 gallon Slicker Plate Standard S/N NE1586

Procedure Used: NISTIR 7383 (2017), SOP 19

Water temperature at time of calibration:

67.11 °F

7/21/2017

Date:

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| DEBRAS | at Roots griculture | | Neb | raska Sta ³⁷⁷ L Certifica | • Number: | Director of Agriculture Greg Ibach P.O. Box 94947 Lincoln, NE 68509-4947 (402) 471-2341 www.nda.nebraska.gov 2017-010-5 | | | |
|--------|---|----------------|--|--|---|---|-----------------|--------------|--|
| | | l | | <u>Of VOIL</u> | <u>ime Transfe</u> | r | | | |
| | | | Items Sub | mitted: | | Submitted By: | FSCP Area 60 | | |
| | Quantity | Nominal Volume | Manu | ManufacturerType254 E 14 th st.Wahoo, NE 68066 | | | | | |
| | 3 | 5 gal | Seraphin Special J bottom drain prover POC: Todd Blaske | | | | | | |
| | 402 www | | | | | | | | |
| | | | | Те | est Results | | - | | |
| | Nominal Volume | Serial Number | Material | Cubical Coefficient of Expansion (/°F) | As Found Volume Delivered @ 60 °F | As left Volume Delivered @ 60 °F | Uncertainty (U) | (<i>k</i>) | |
| | 5 gal | 05-41610-3 | SS | 0.0000265 | 5.00085 gal | 5.00085 gal | 0.00065 gal | 2.05 | |
| | 5 gal | 05-41610-08 | SS | 0.0000265 | 4.99949 gal | 4.99949 gal | 0.00065 gal | 2.05 | |
| | 5 gal | 05-41610-15 | SS | 0.0000265 | 4.99974 gal | 4.99974 gal | 0.00065 gal | 2.05 | |
| | The data in this report only applies to those items specifically listed on this report. | | | | | | | | |

Volume delivered at 60°F after a 30 second pour and 10 second drain for test measures. For provers and a 30 second drain time would apply.

Conversion Factors:

1 gal = 231 in³ 1 gal = 3.785 412 E-03 m³

Traceability Statement:

The artifact(s) described in this report have been compared to the Standards of the State of Nebraska. The Standards of the State of Nebraska are traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST) and are part of a comprehensive measurement assurance program for ensuring continued accuracy and measurement traceability within the level of uncertainty reported by this laboratory. The calibration number for this report is the only unique calibration number to be used in referencing measurement traceability for the artifact(s) described in this report.

Uncertainty Statement:

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Pertinent Information:

The artifact(s) listed above have been found and/or left within the maximum permissible error for the specification stated above, except as noted. An artifact is considered in-compliance when the correction plus the measurement uncertainty is equal to or less than the maximum permissible error.

winor wear

Treatment of Item(s) before Calibration:

Item(s) were tested as found

Environmental conditions at time of calibration:

| Temp °C | 25.9 | Humidity % | 43.5 |
|-----------------|-----------|------------|------|
| Pressure mmHg | 759.71 | | |
| Date Submitted: | 7/20/2017 | | |
| gone | P. 3 | | |

Joel P. Lavicky, Metrologist

7/21/2017

Date:

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NEWAML - 78 (1/2017) rev.1 Issued by the Nebraska Standards Laboratory 5 gallon Slicker Plate Standard S/N NE1586

Procedure Used: NISTIR 7383 (2017), SOP 19

Water temperature at time of calibration:

67.27 °F