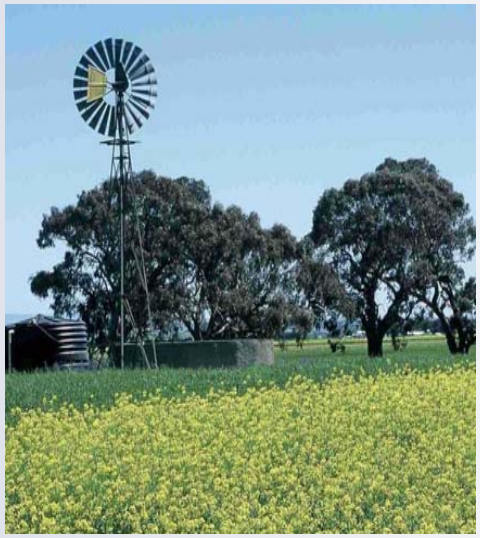
# Australian Oilseed Test Check Program 2005/2006

Coordinator: Dao Ho

ABB Grain Ltd



# 15 Participants

- ABB Grain Ltd
- Agrifood Technology
- Atlantic Pacific Foods
- Cargill Oilseeds
- Cargill Processing
- Casco Agritech
- Co-operative Bulk Handling Ltd
- Department of Primary Industries
- GrainCorp (New South Wales)
- GrainCorp (Queensland)
- GrainCorp (Victoria)
- Mac Smith Milling
- NSW Agriculture
- Riverland Oilseeds
- Overseas Merchandise Inspection Co.

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# Quality Parameters

- Test Weight kg/hl
- Impurities %
- Oil % - Rapid (Clean Seed Basis)
- Oil % - Solvent (Clean Seed Basis)
- Oil % - Solvent (Clean Seed Basis) AOCS Am 2-93
- Oil % - SFE Extraction Moisture % Oven
- Moisture % - Rapid
- Oleic (Percent Oil)
- Linoleic (Percent Oil)
- Free Fatty Acid (Percent of Oil)

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# Outlier Determination

To determine outliers we use the formula of 'Q Test for Bad Data' to determine the outliers by standard statistical values. Below is an example of how outliers are determined for an average round of results, with the outliers highlighted in red.

| Lab Code | Test Weight kg/hl | Lab Code | Impurities % | Lab Code | Oil Rapid % (Clean) | Lab Code | Oil Solvent % (Clean) |
|---|---|---|---|---|---|---|---|
| | Result | | Result | | Result | | Result |
| M | 62.1 | I | 1.2 | I | 42.5 | L | 42.3 |
| K | 66.5 | H | 1.4 | A | 42.9 | B | 42.9 |
| E | 66.8 | F | 1.5 | C | 43.3 | F | 43.4 |
| I | 67.2 | G | 1.5 | F | 43.7 | K | 43.8 |
| B | 67.5 | A | 1.88 | H | 43.8 | C | 43.8 |
| G | 67.6 | E | 1.9 | G | 44.2 | I | 43.8 |
| J | 68 | K | 1.9 | D | 44.2 | H | 43.9 |
| F | 69.7 | L | 2 | J | 44.3 | E | 44.4 |
| H | | M | 2.2 | E | 44.4 | J | 44.7 |
| A | | D | 2.2 | K | 44.5 | G | 45.1 |
| C | | J | 2.3 | M | 45.9 | A | |
| D | | C | 2.5 | B | | D | |
| L | | B | | L | | M | |
| Mean | 66.93 | Mean | 1.87 | Mean | 43.97 | Mean | 43.81 |
| Stdev | 2.18 | Stdev | 0.40 | Stdev | 0.91 | Stdev | 0.82 |
| Q1 | 66.725 | Q1 | 1.5 | Q1 | 43.5 | Q1 | 43.5 |
| Q3 | 67.7 | Q3 | 2.2 | Q3 | 44.35 | Q3 | 44.275 |
| IQR | 0.975 | IQR | 0.7 | IQR | 0.85 | IQR | 0.775 |
| Determine | 1.4625 | Determine | 1.05 | Determine | 1.275 | Determine | 1.1625 |
| True Outlier Q1 | 65.2625 | True Outlier Q1 | 0.45 | True Outlier Q1 | 42.225 | True Outlier Q1 | 42.3375 |
| True Outlier Q3 | 69.1625 | True Outlier Q3 | 3.25 | True Outlier Q3 | 45.625 | True Outlier Q3 | 45.4375 |

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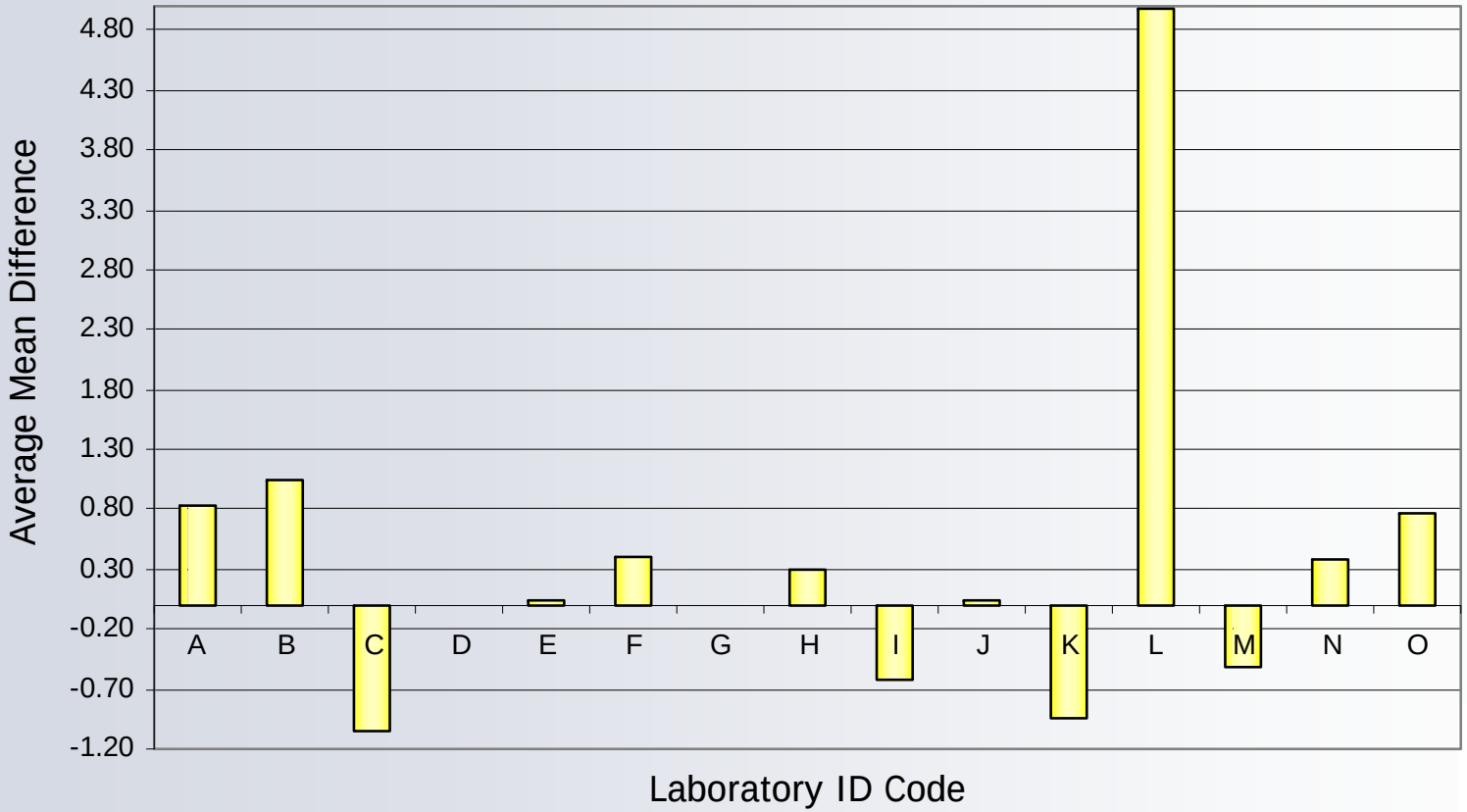
# Results

The monthly results from the test check program are published on the Australian Oilseeds web site alongside previous seasons of the program.

To view all results from 2001 – 2006 visit:

**www.australianoilseeds.com**

# Test Weight kg/hl
## Average of the Mean Difference

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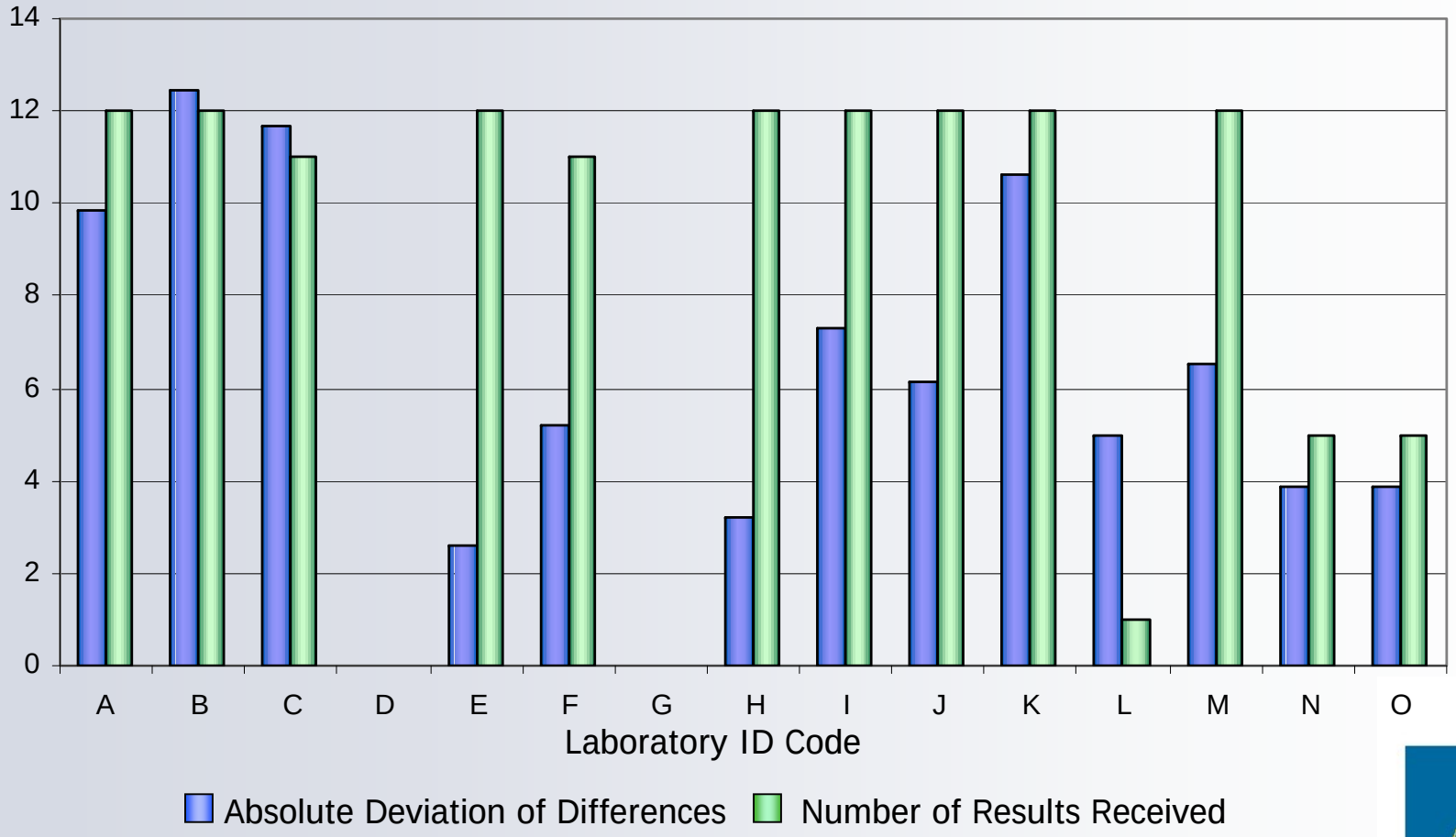
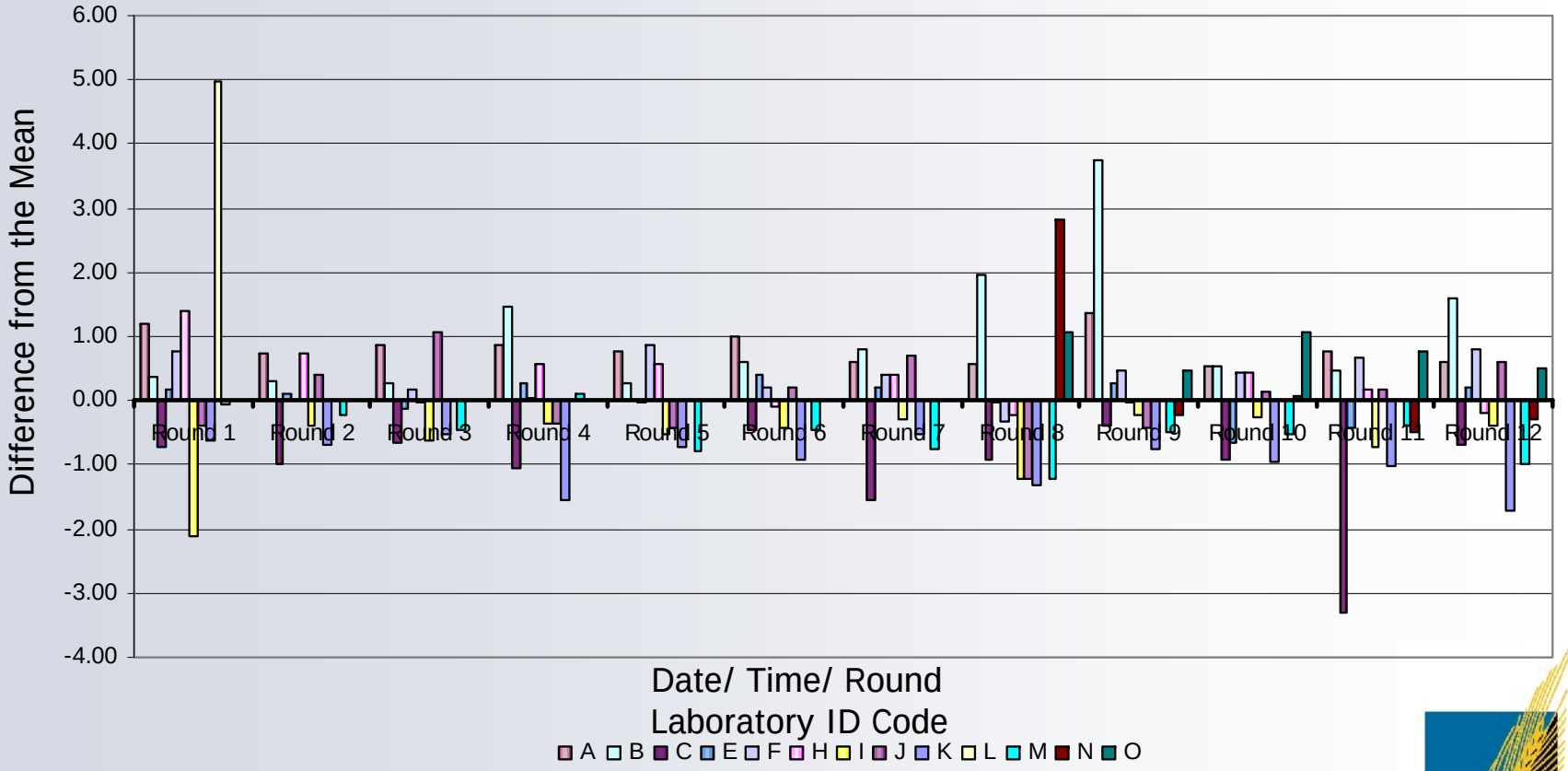
Australian Oilseed Test Check Program 2005/2006

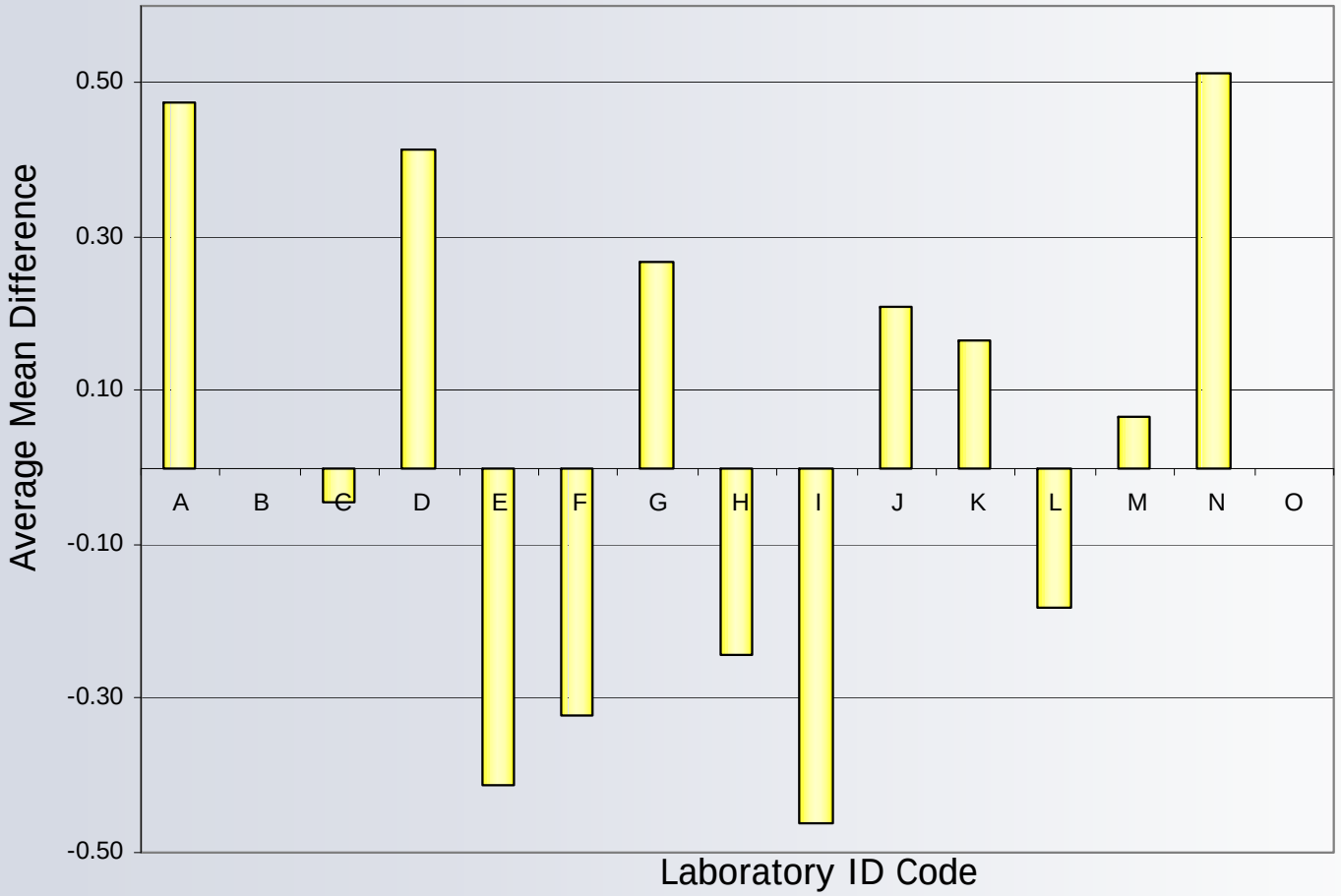
# Test Weight kg/hl
## Absolute Deviation of Differences and Number of Results



# Test Weight kg/hl
## Difference from the Mean vs. Time

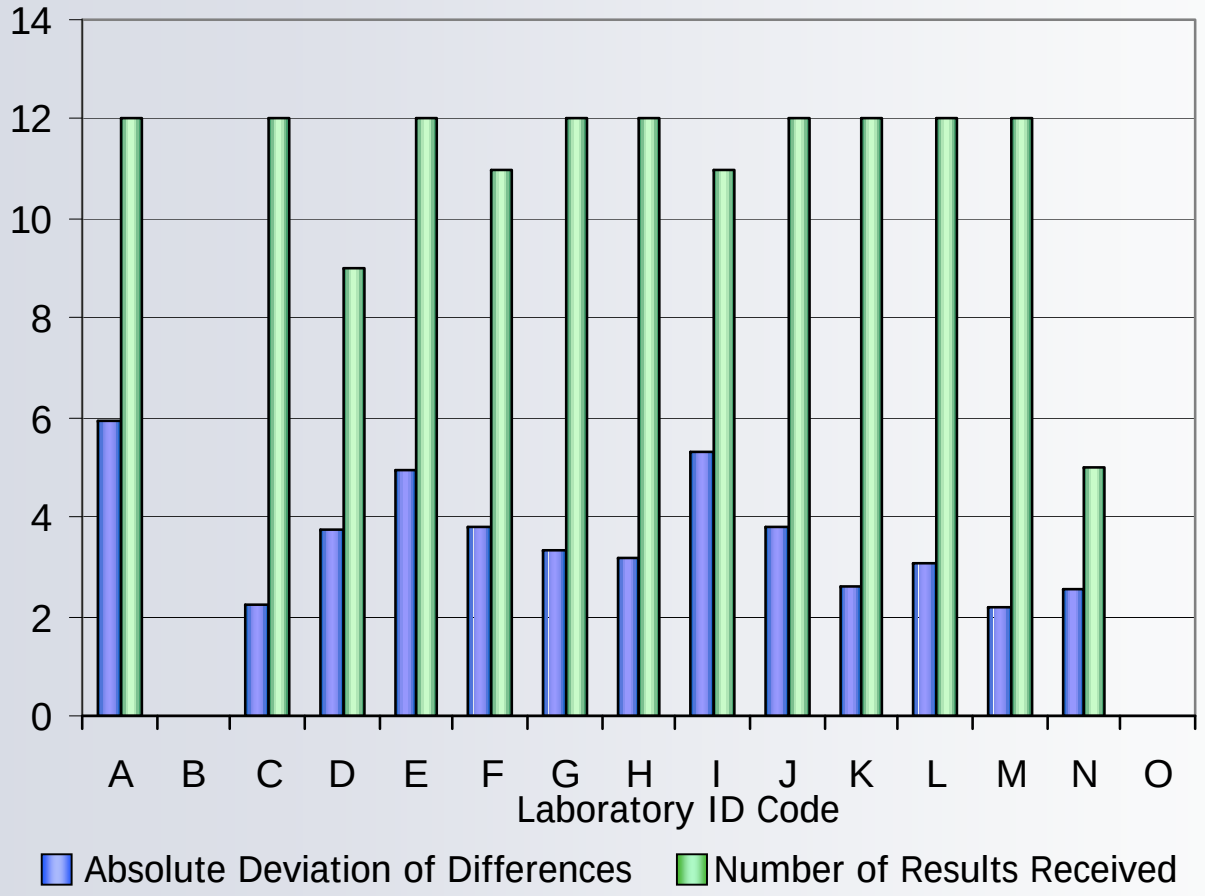


# Impurities %
# Average Mean Difference

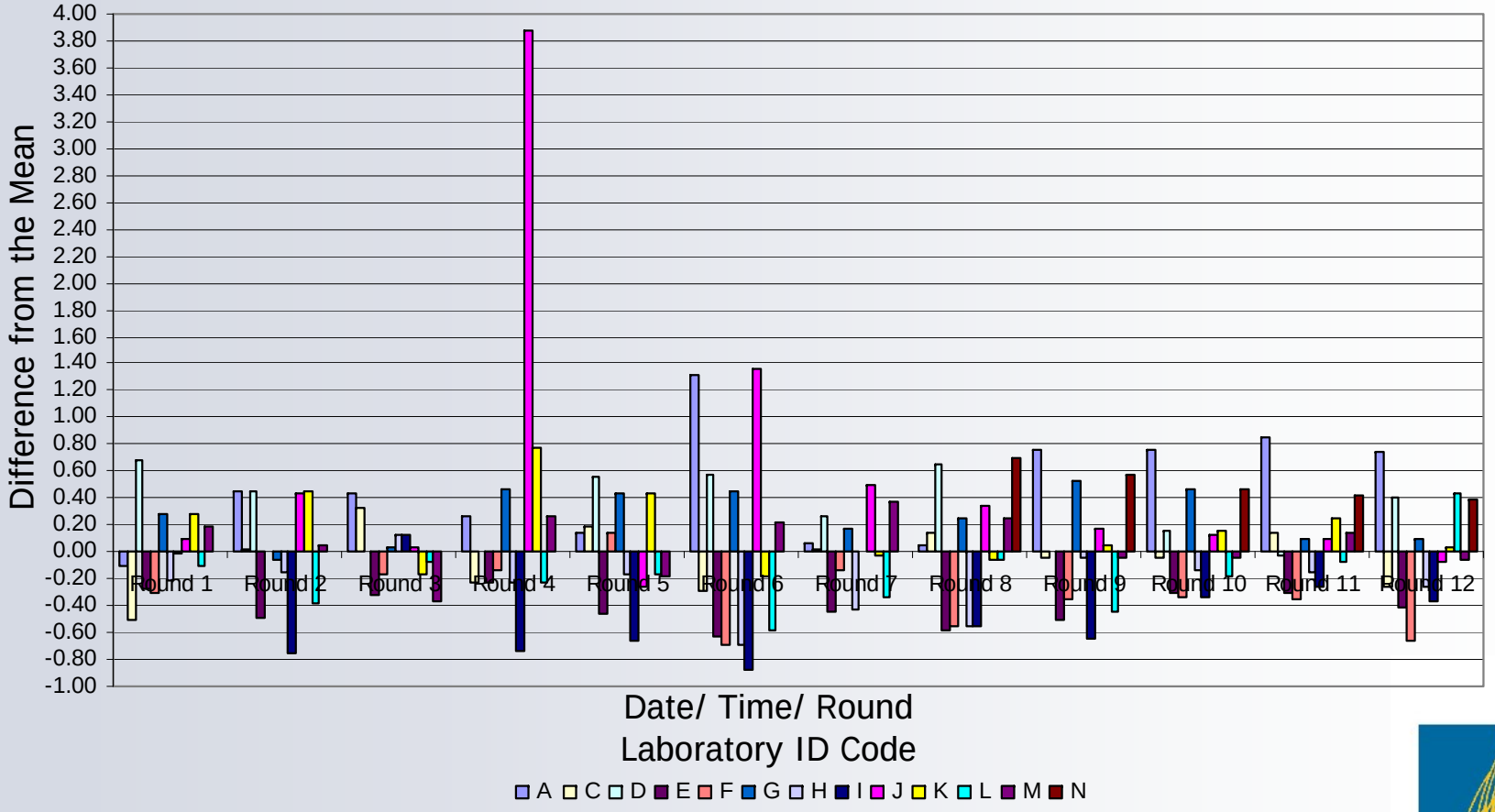


# Impurities %

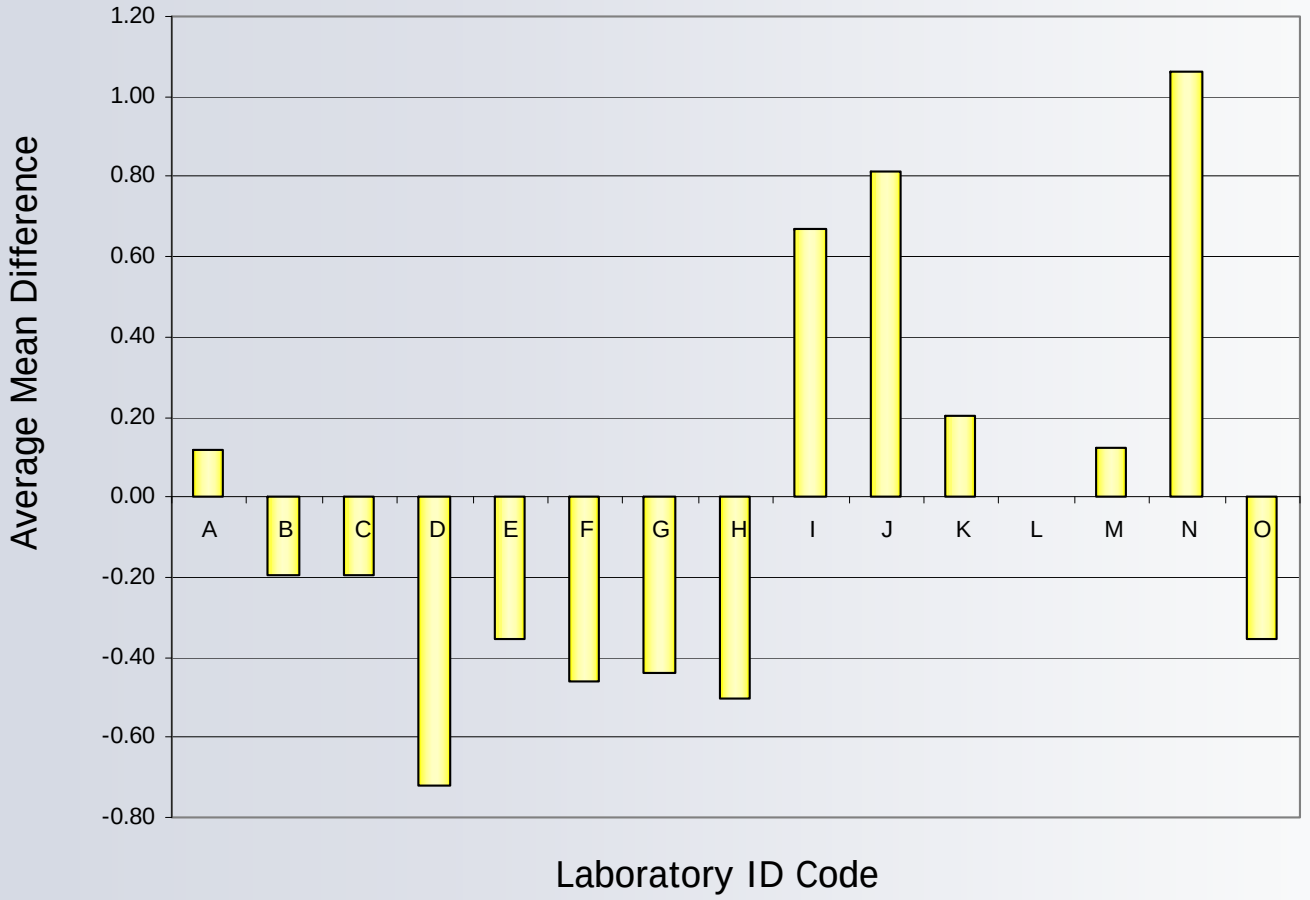
## Absolute Deviation of Differences and Number of Results



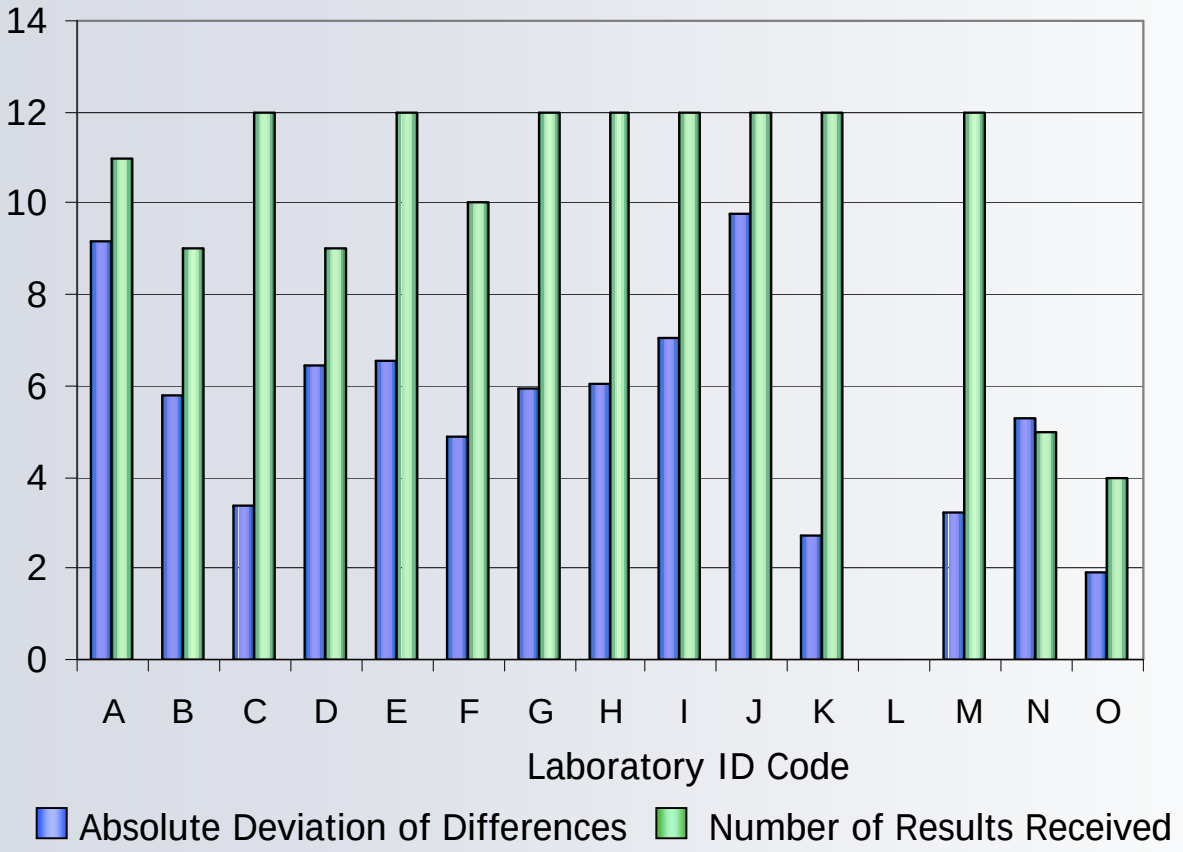
# Impurities %
## Difference from the Mean vs. Time



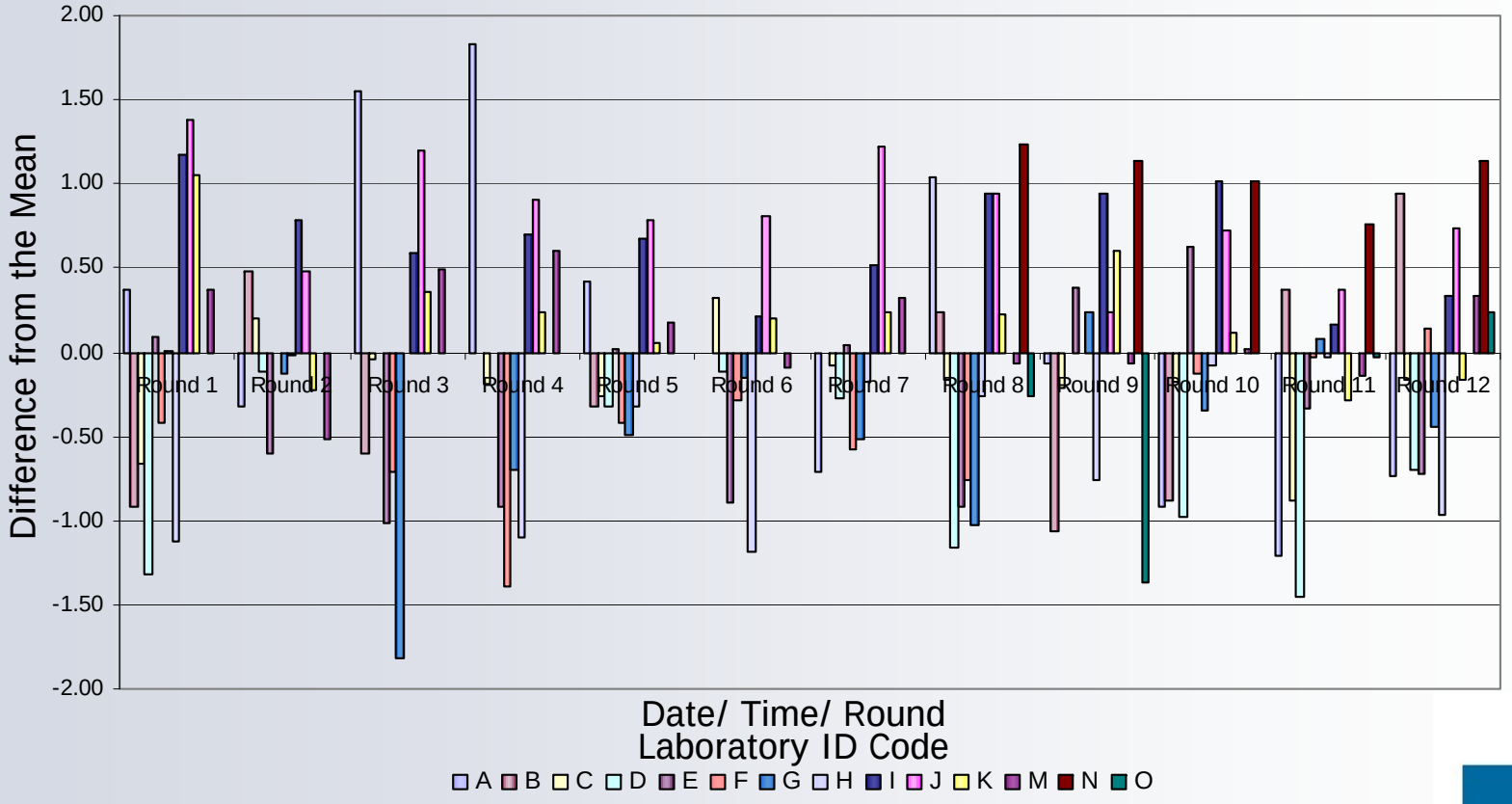
# Oil % - Rapid (Clean Seed Basis)
## Average of the Mean Difference



# Oil % - Rapid (Clean Seed Basis)
## Absolute Deviation of Differences and Number of Results



# Oil % – Rapid
## Difference from the Mean vs. Time

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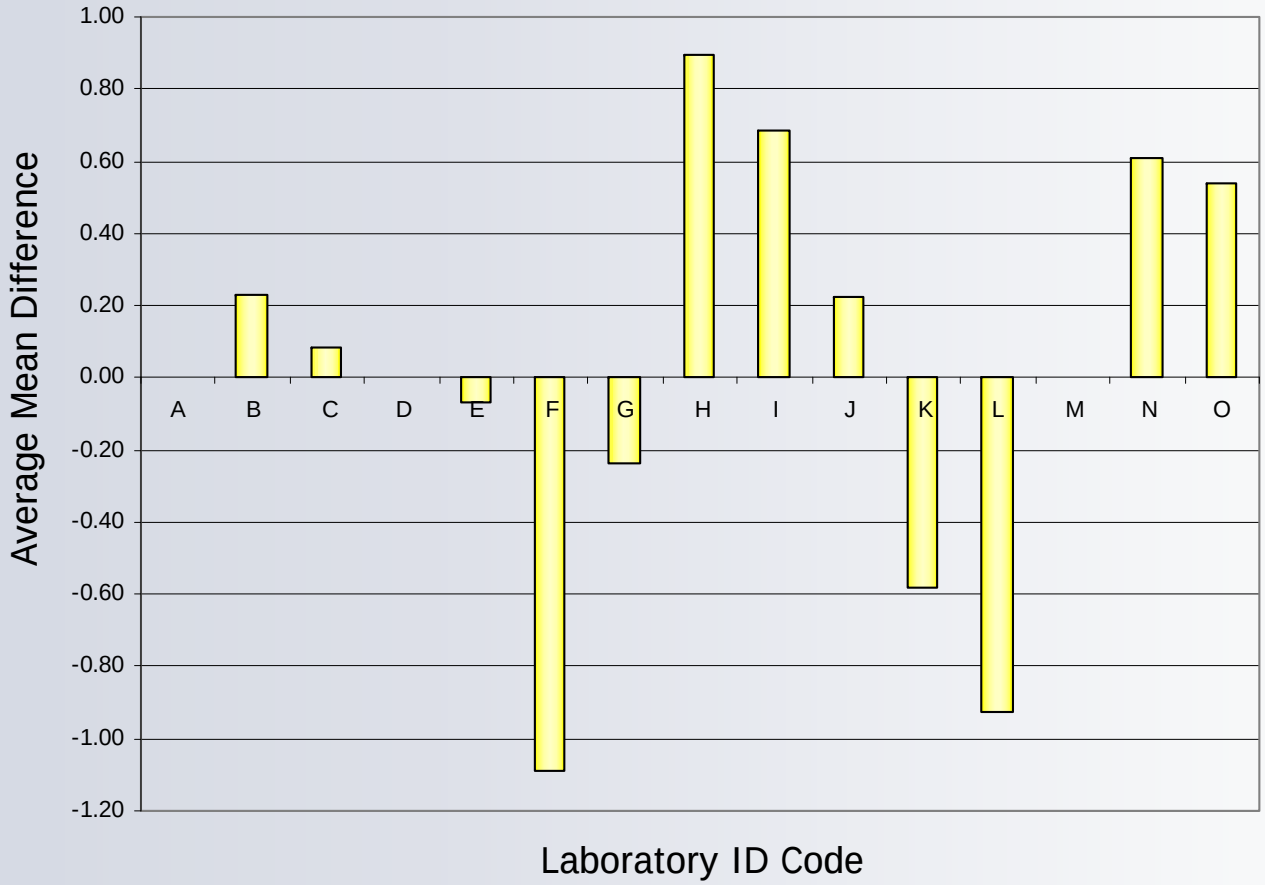
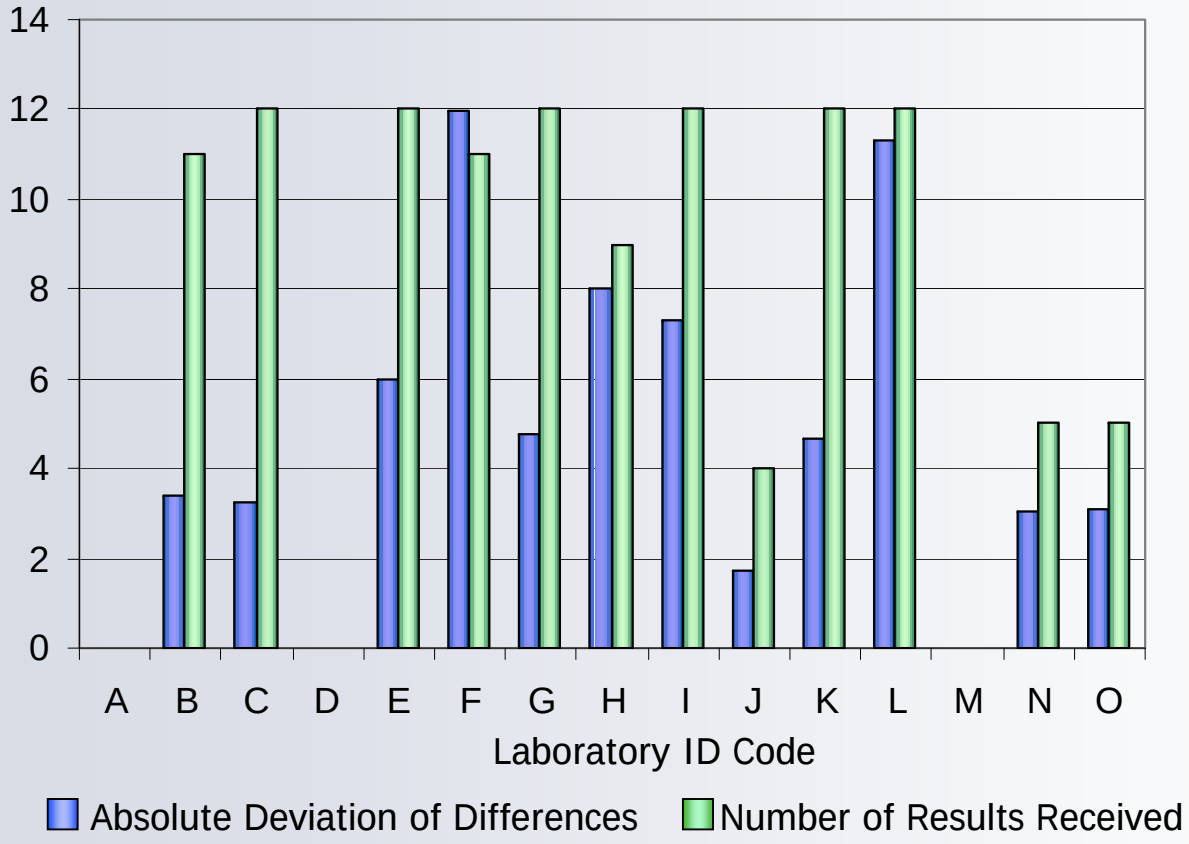
# Oil % Solvent
## Average of the Mean Difference

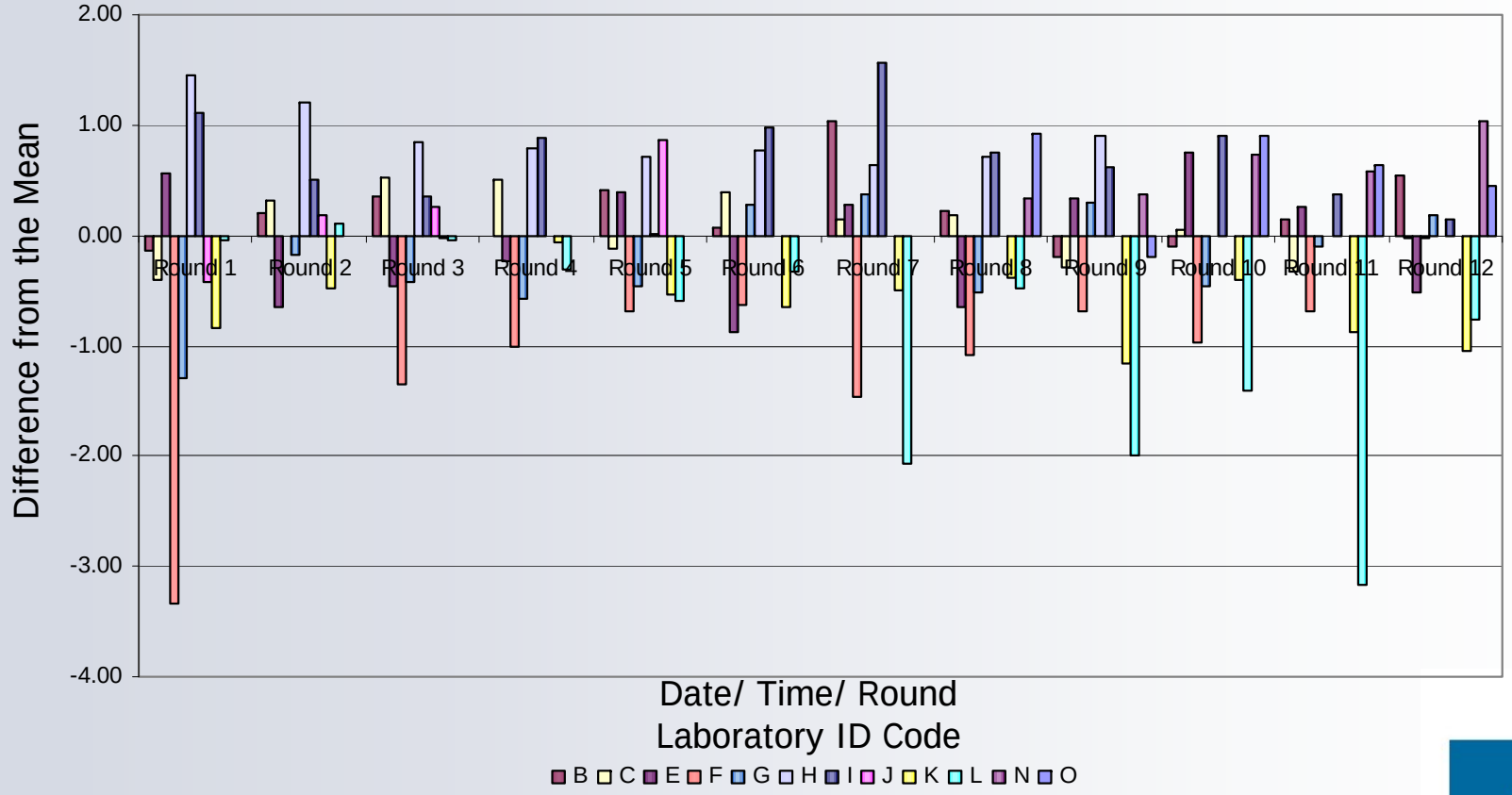


# Oil % Solvent

## Absolute Deviation of Differences and Number of Results



# Oil % – Solvent
## Difference from the Mean vs. Time

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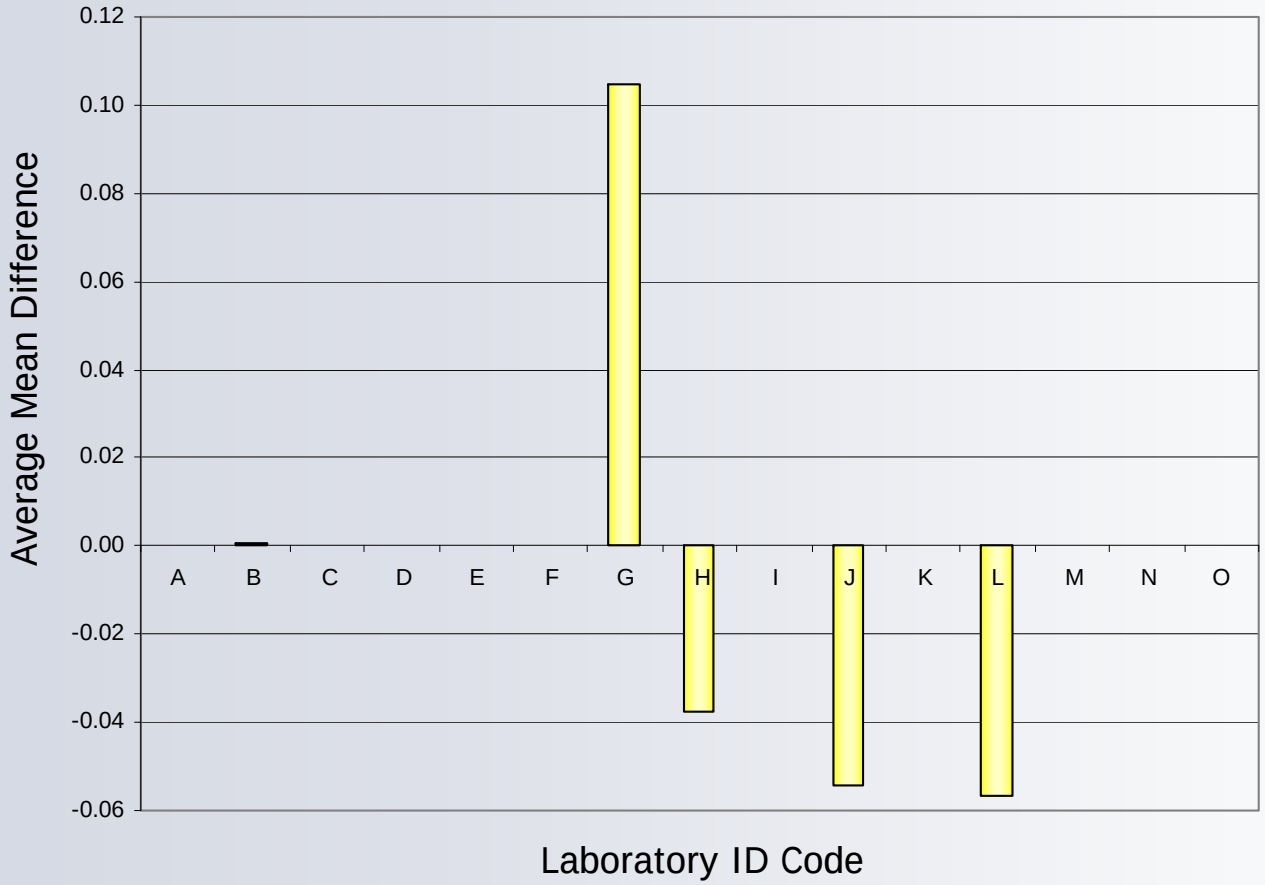
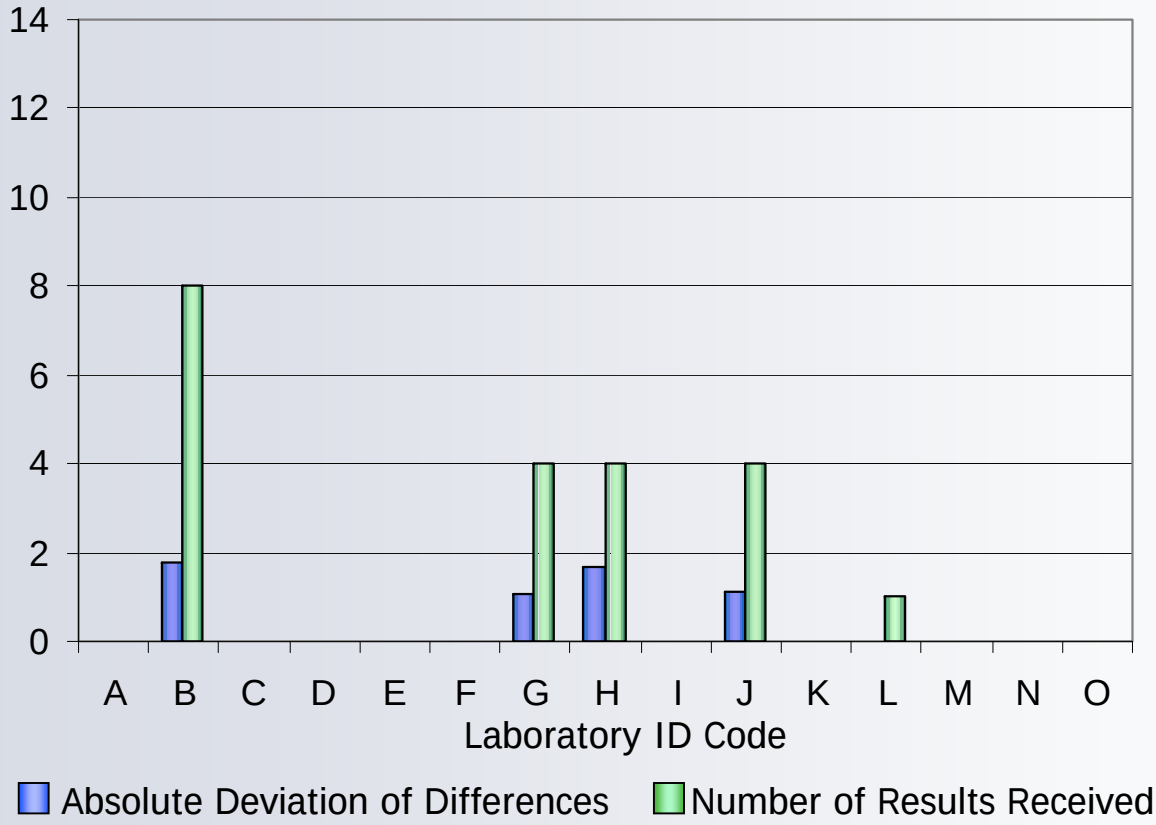
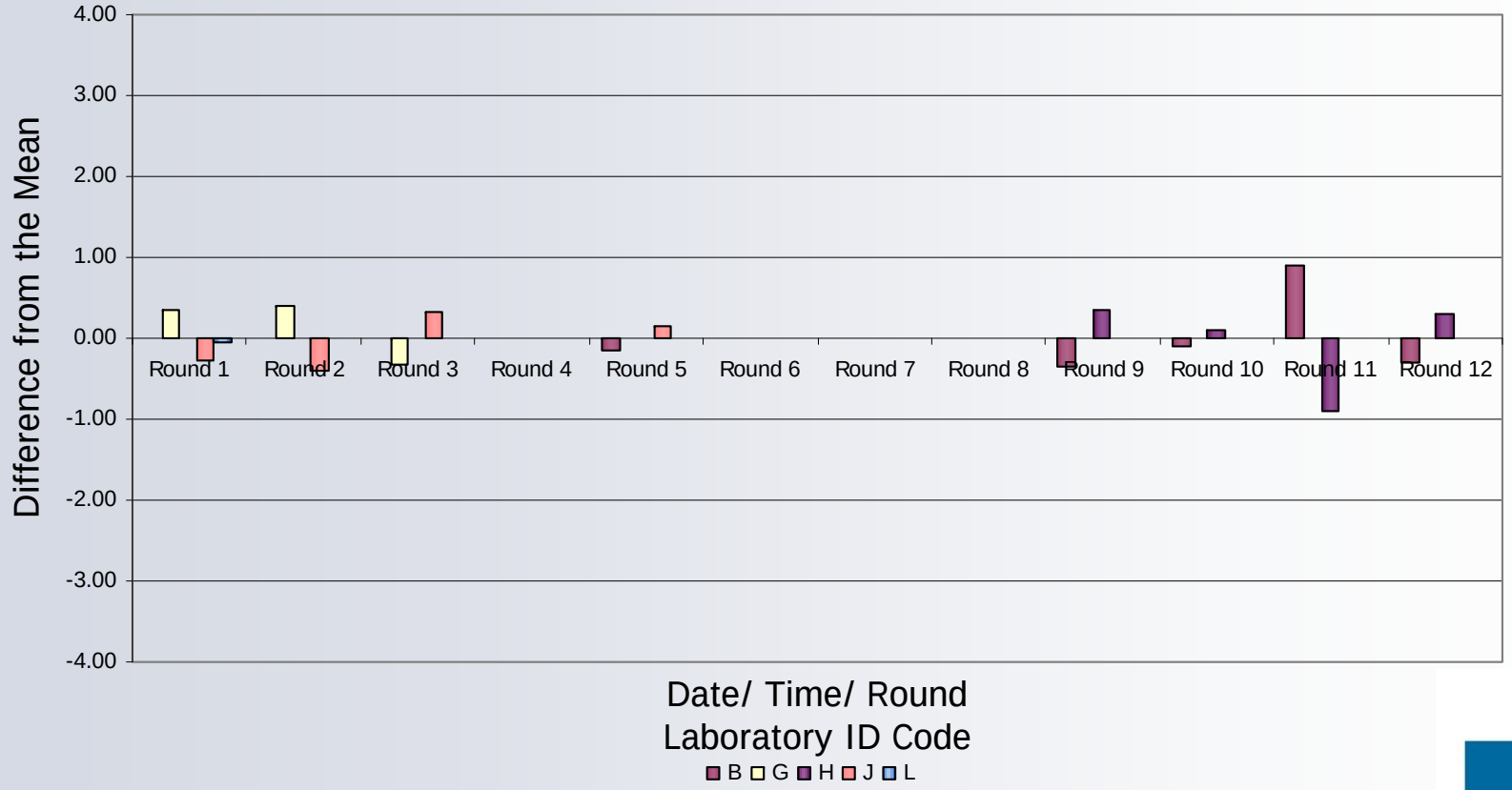
# Oil % Solvent (AOCS)
## Average of the Mean Difference



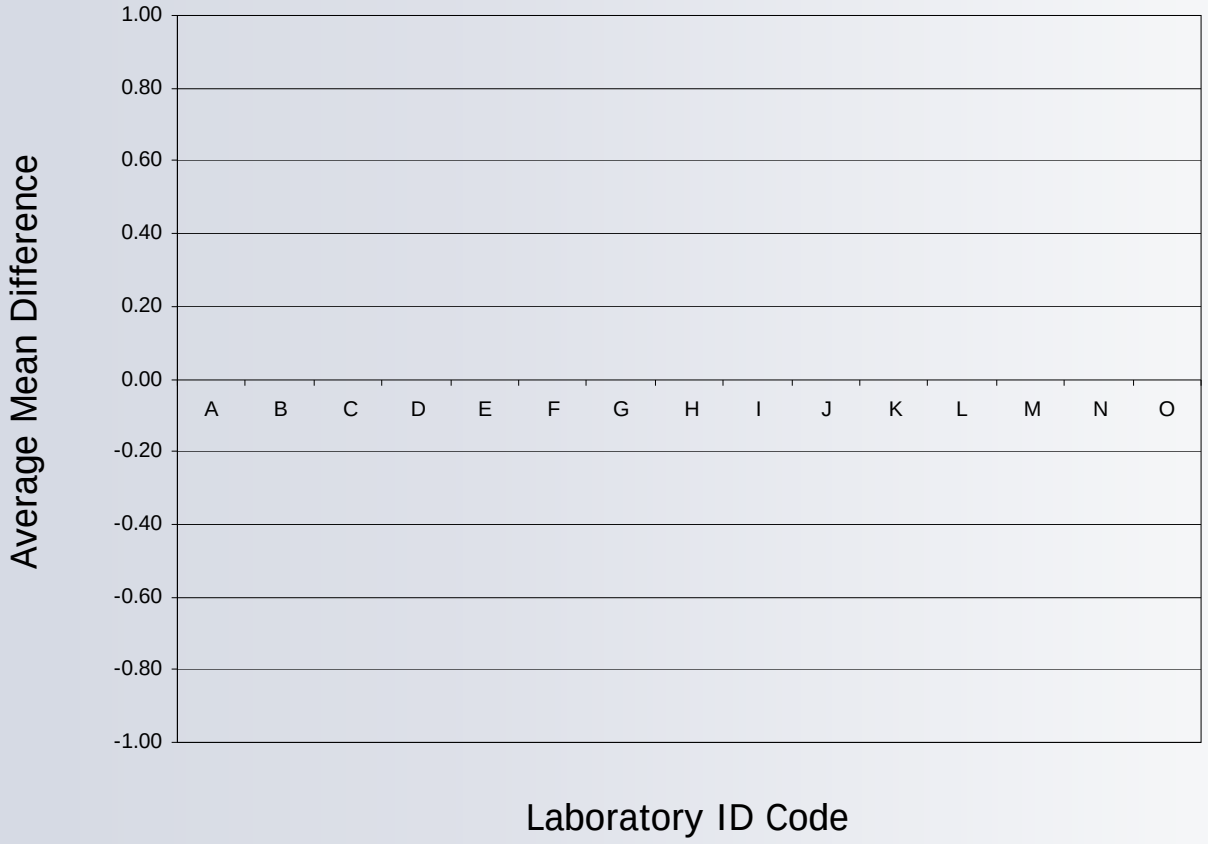
# Oil % Solvent (AOCS)
## Absolute Deviation of Differences and Number of Results



# Oil % – Solvent (AOCS)
## Difference from the Mean vs. Time

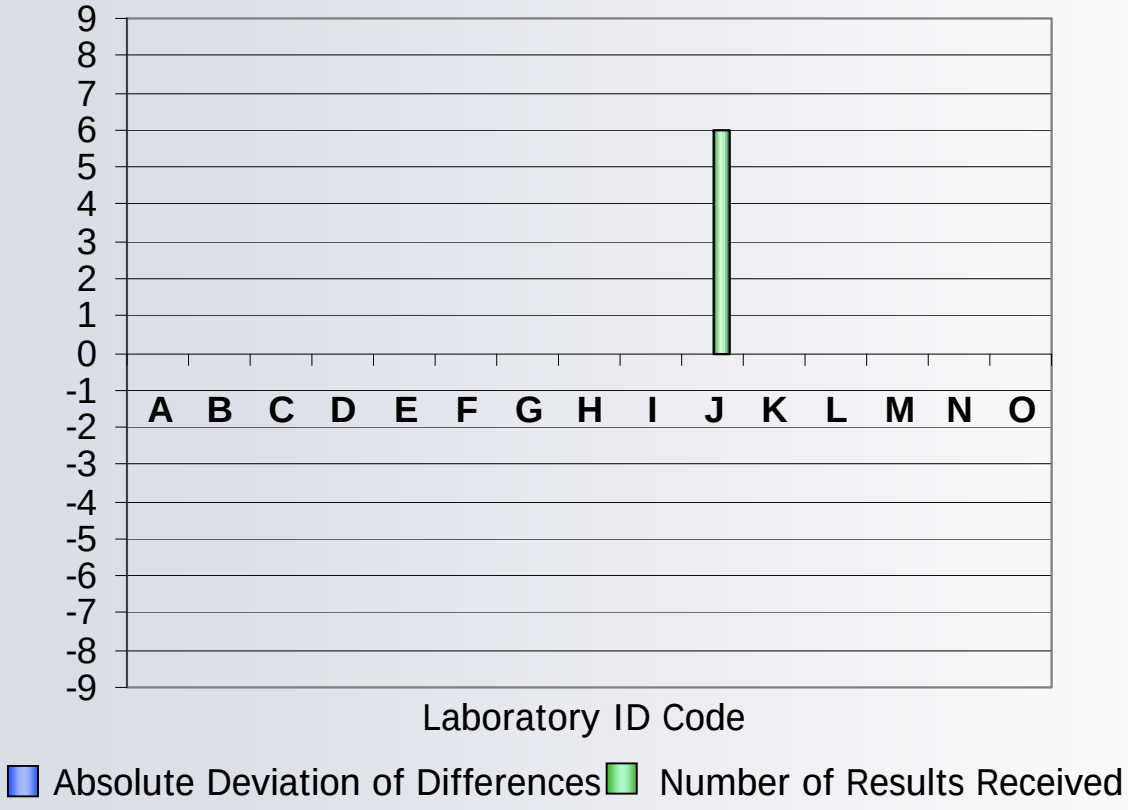


# Oil % - SFE Extraction
## Average of the Mean Difference

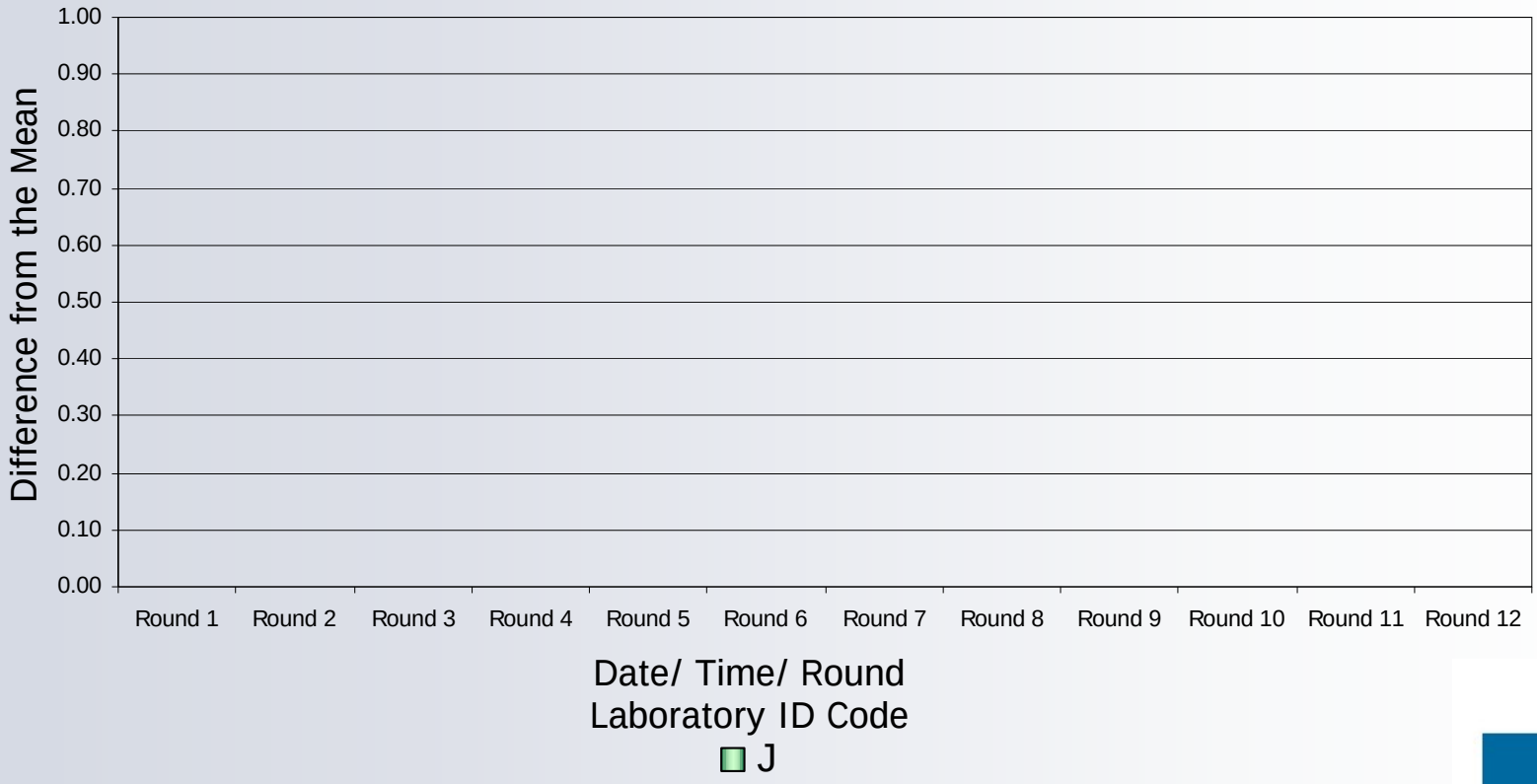


# Oil % – SFE Extraction

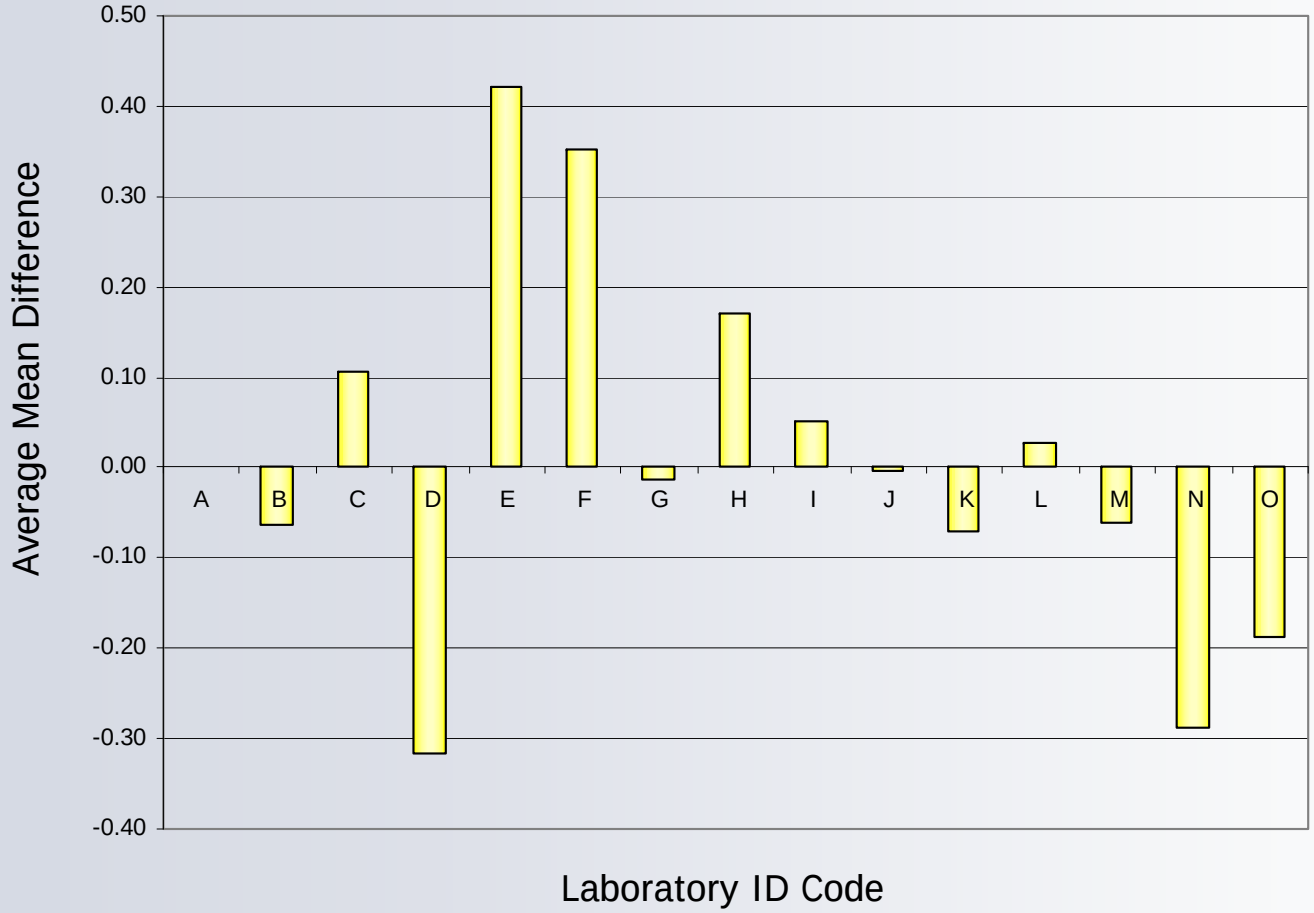
## Absolute Deviation of Differences and Number of Results



# Oil % – SFE Extraction
## Difference from the Mean vs. Time



# Moisture % - Oven
## Average of the Mean Difference

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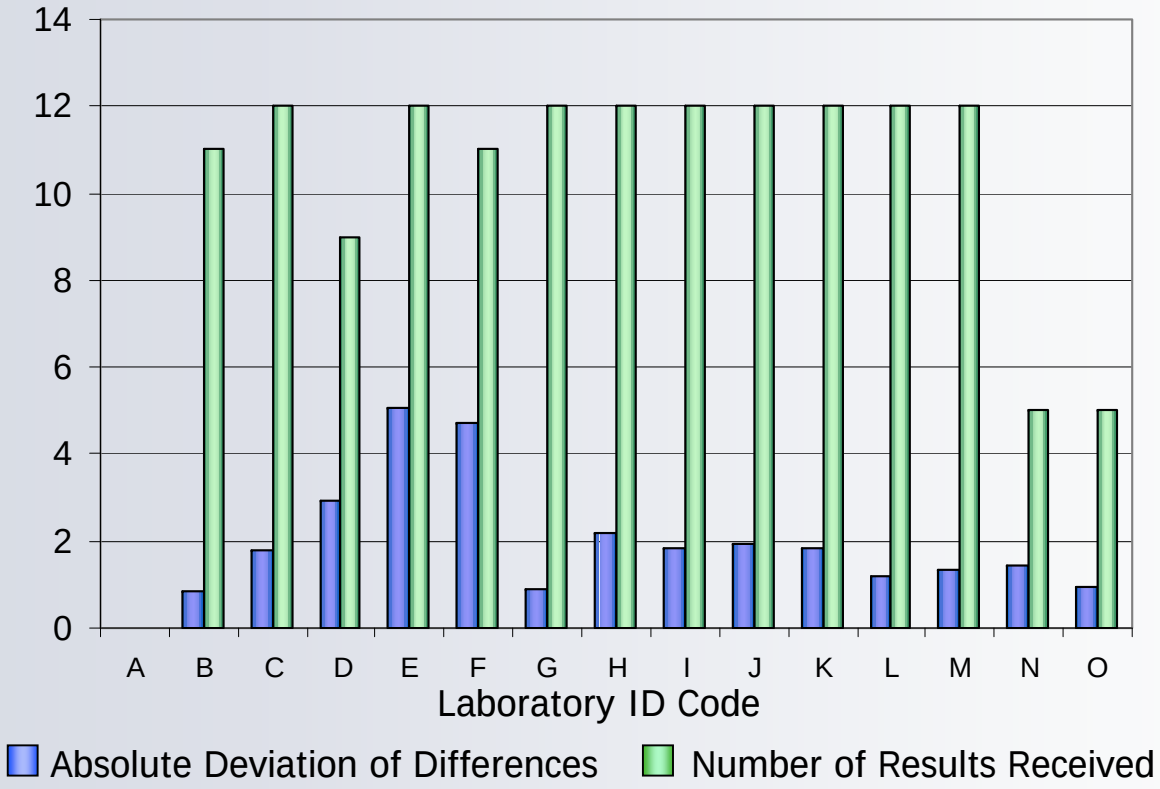
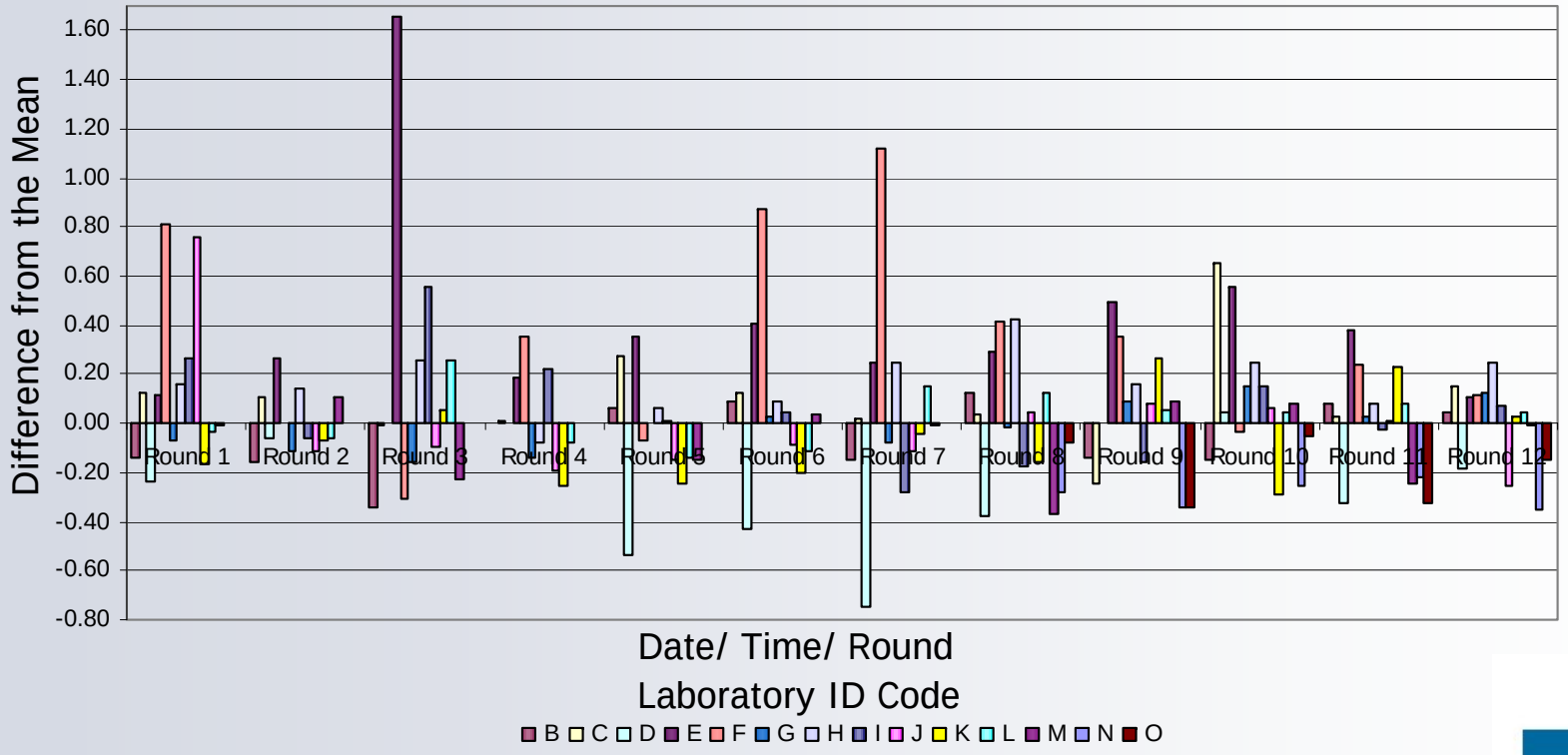
# Moisture % - Oven
## Absolute Deviation of Differences and Number of Results



# Moisture % – Oven
## Difference from the Mean vs. Time

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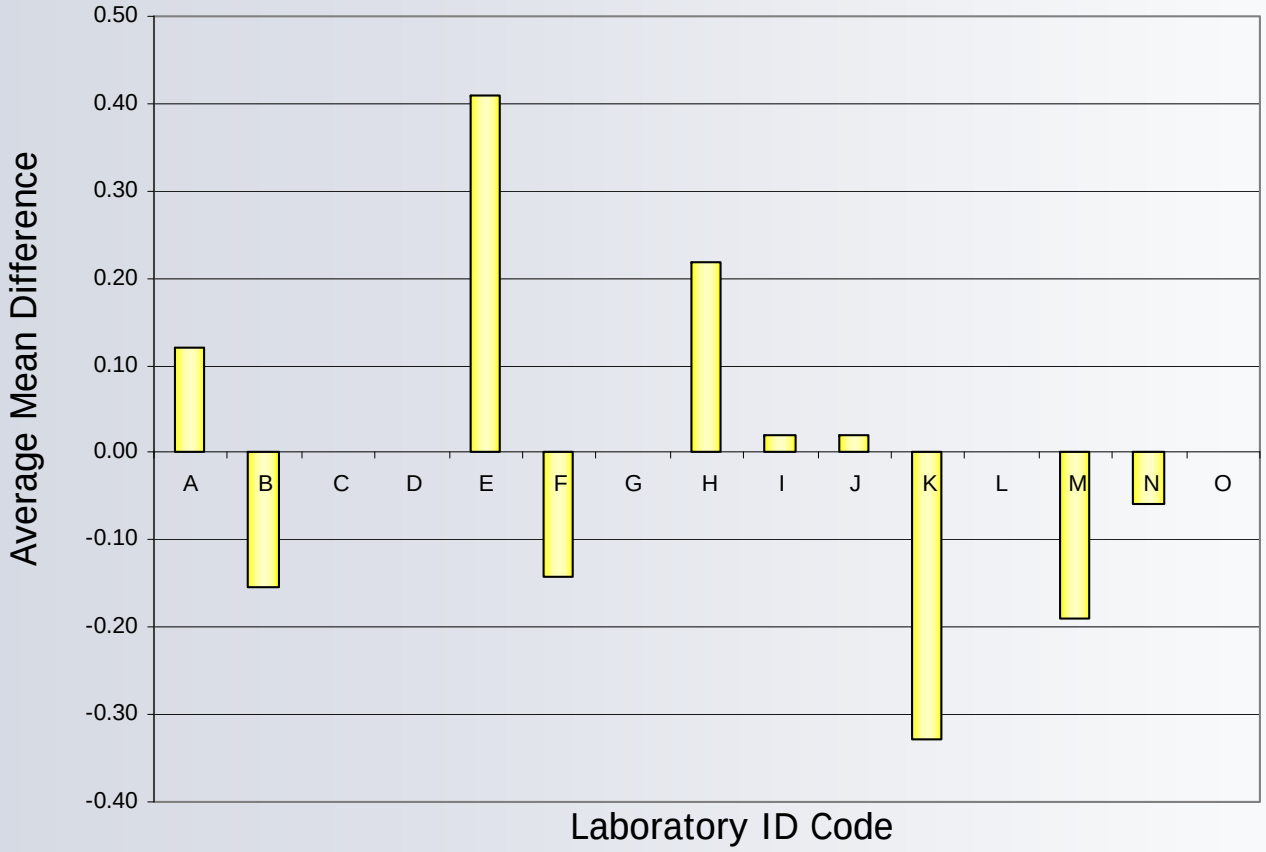
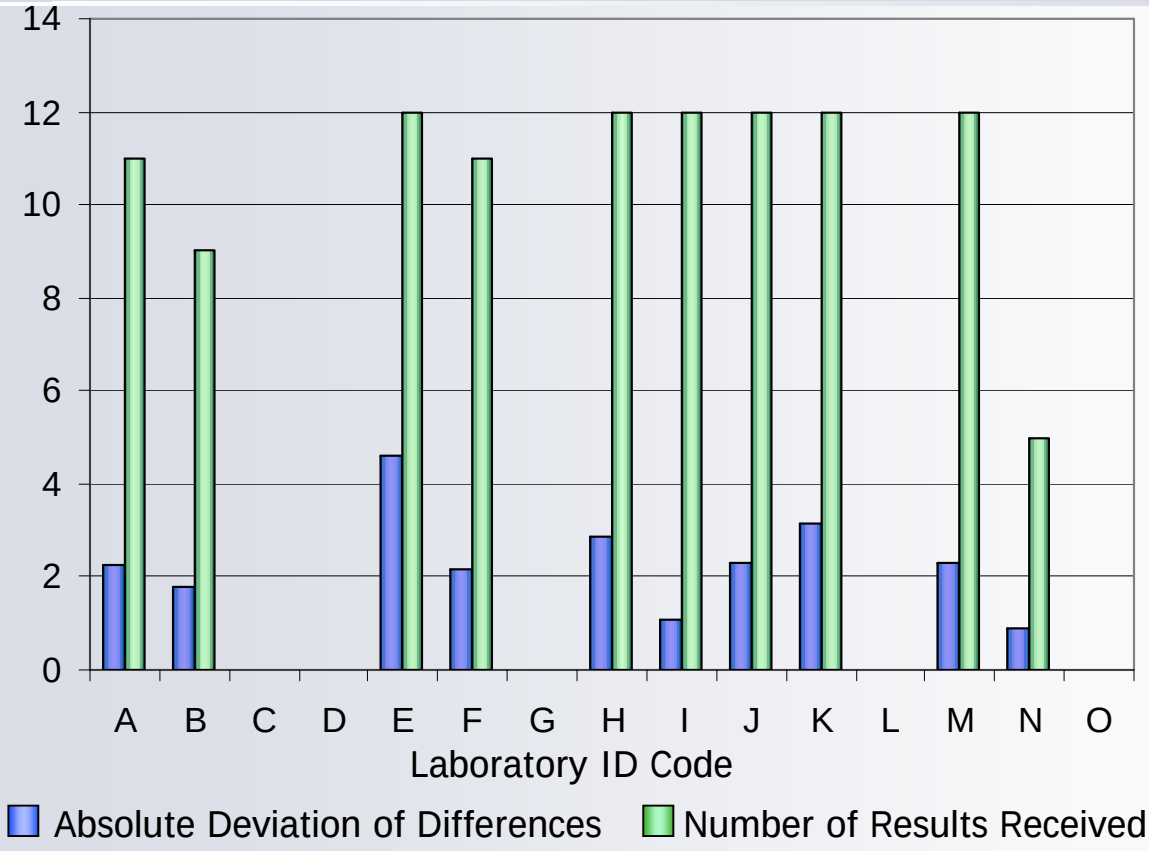
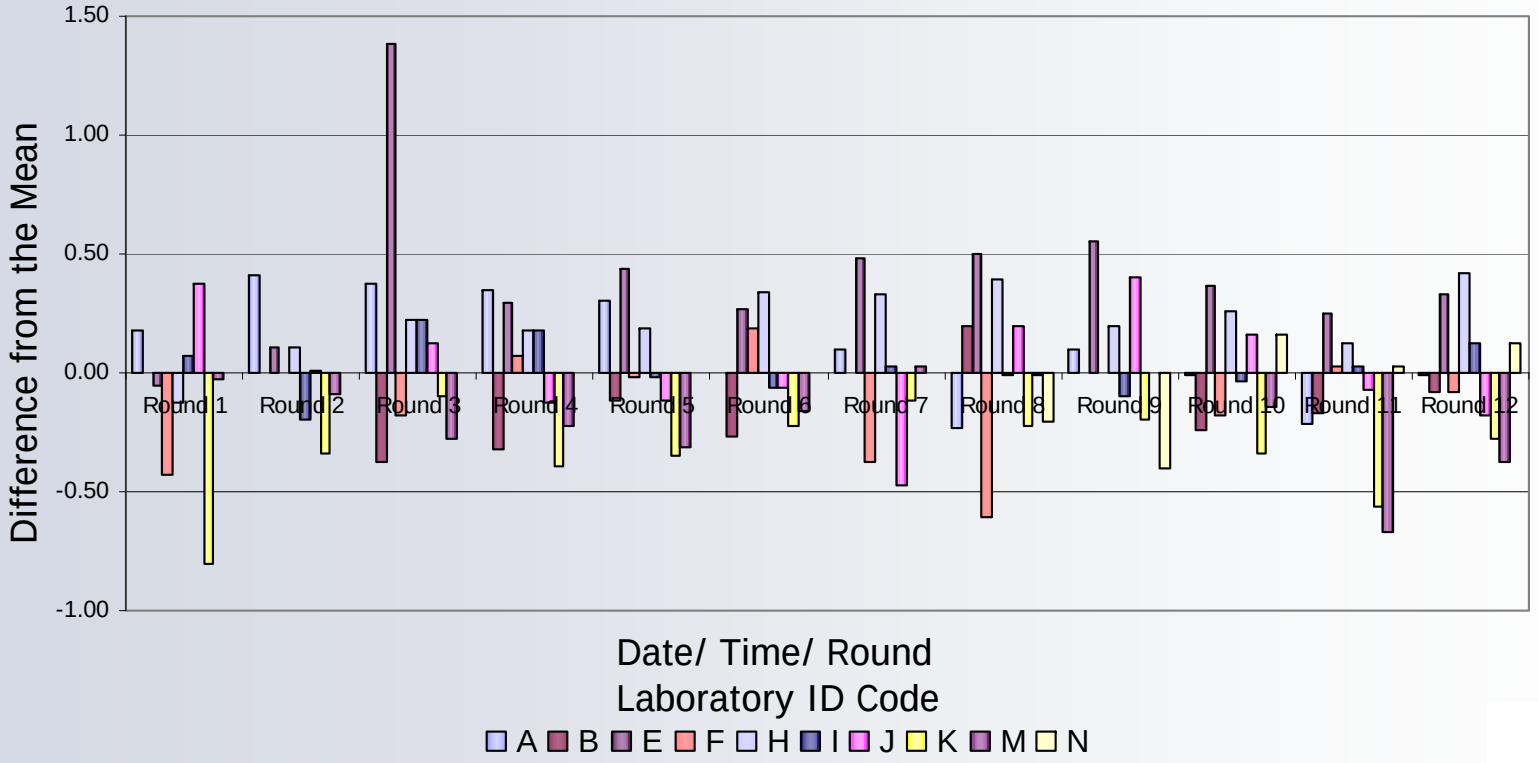
# Moisture % - Rapid
## Average of the Mean Difference



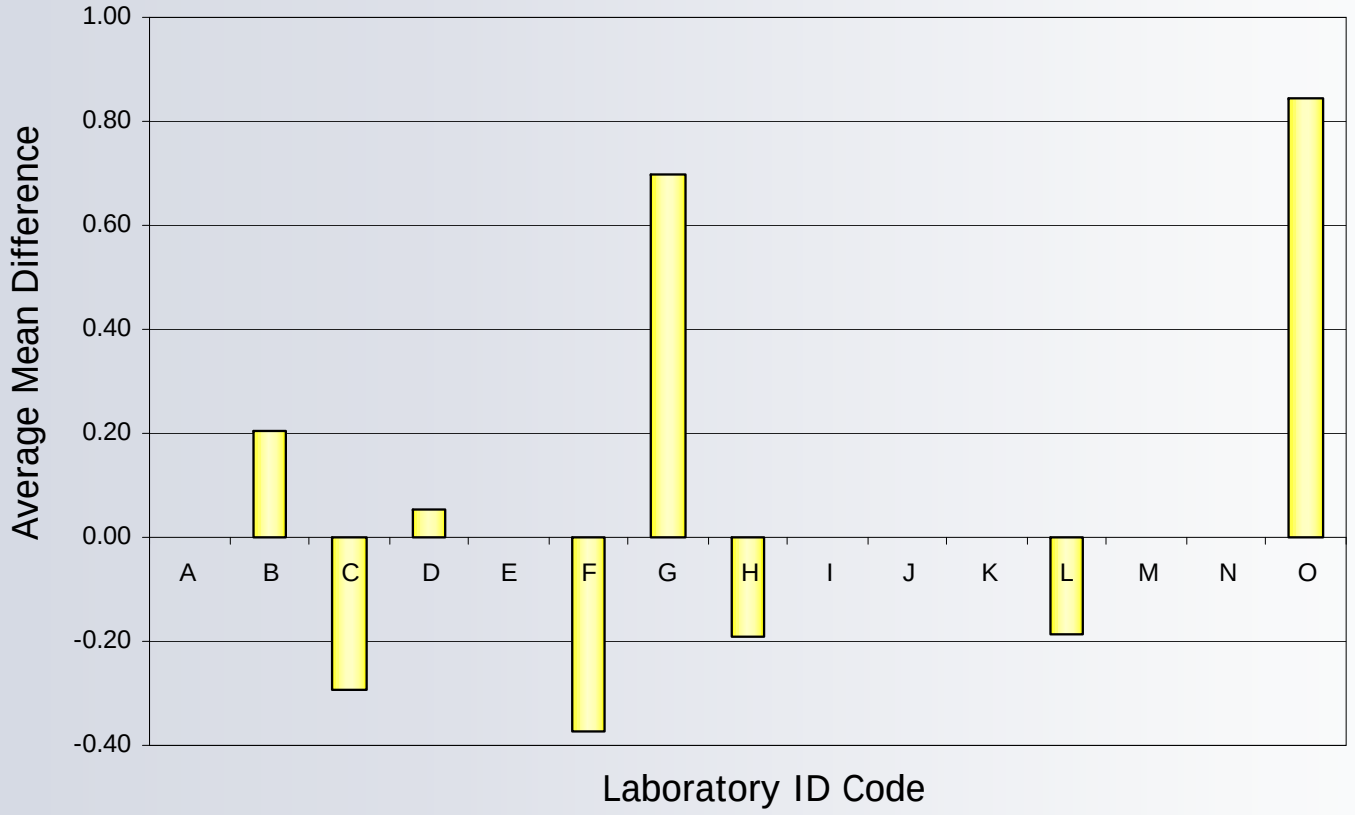
# Moisture % - Rapid
## Absolute Deviation of Differences and Number of Results



# Moisture % – Rapid
## Difference from the Mean vs Time

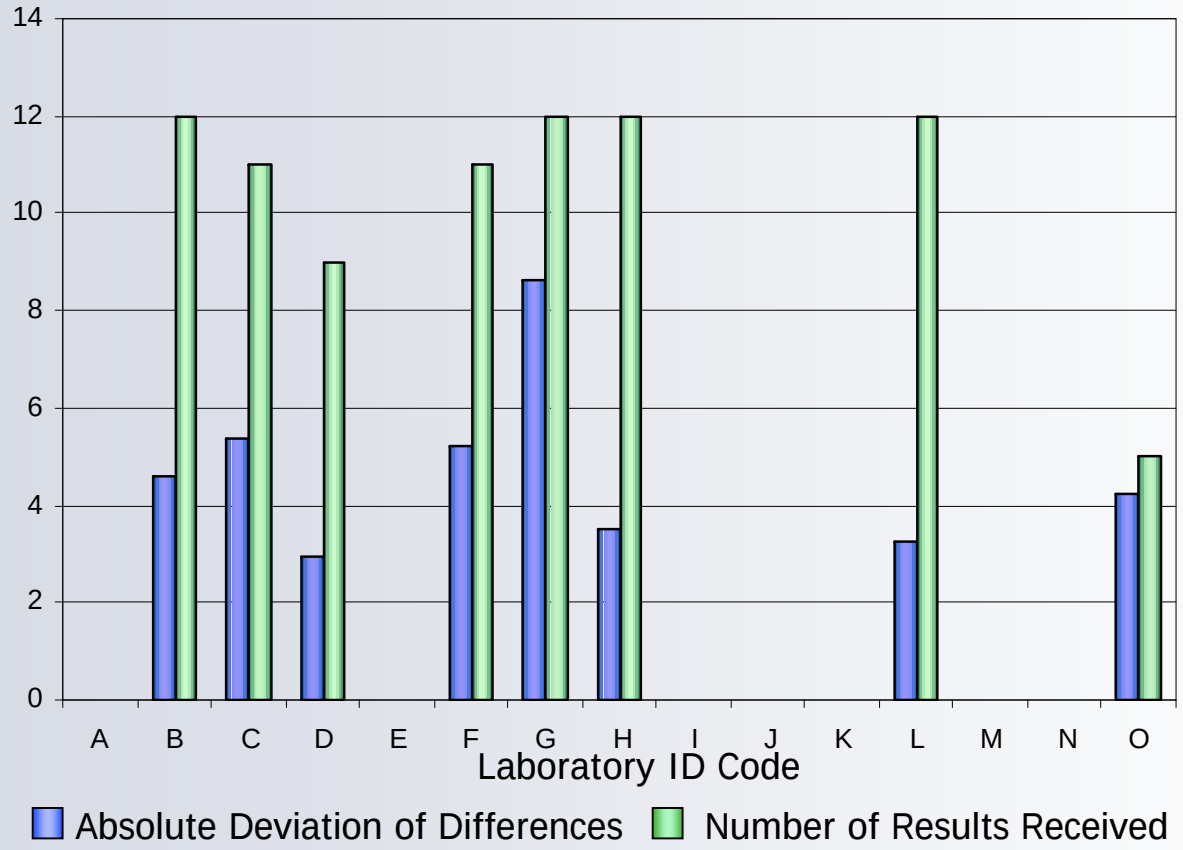


# Oleic % Oil
# Average of the Mean Difference

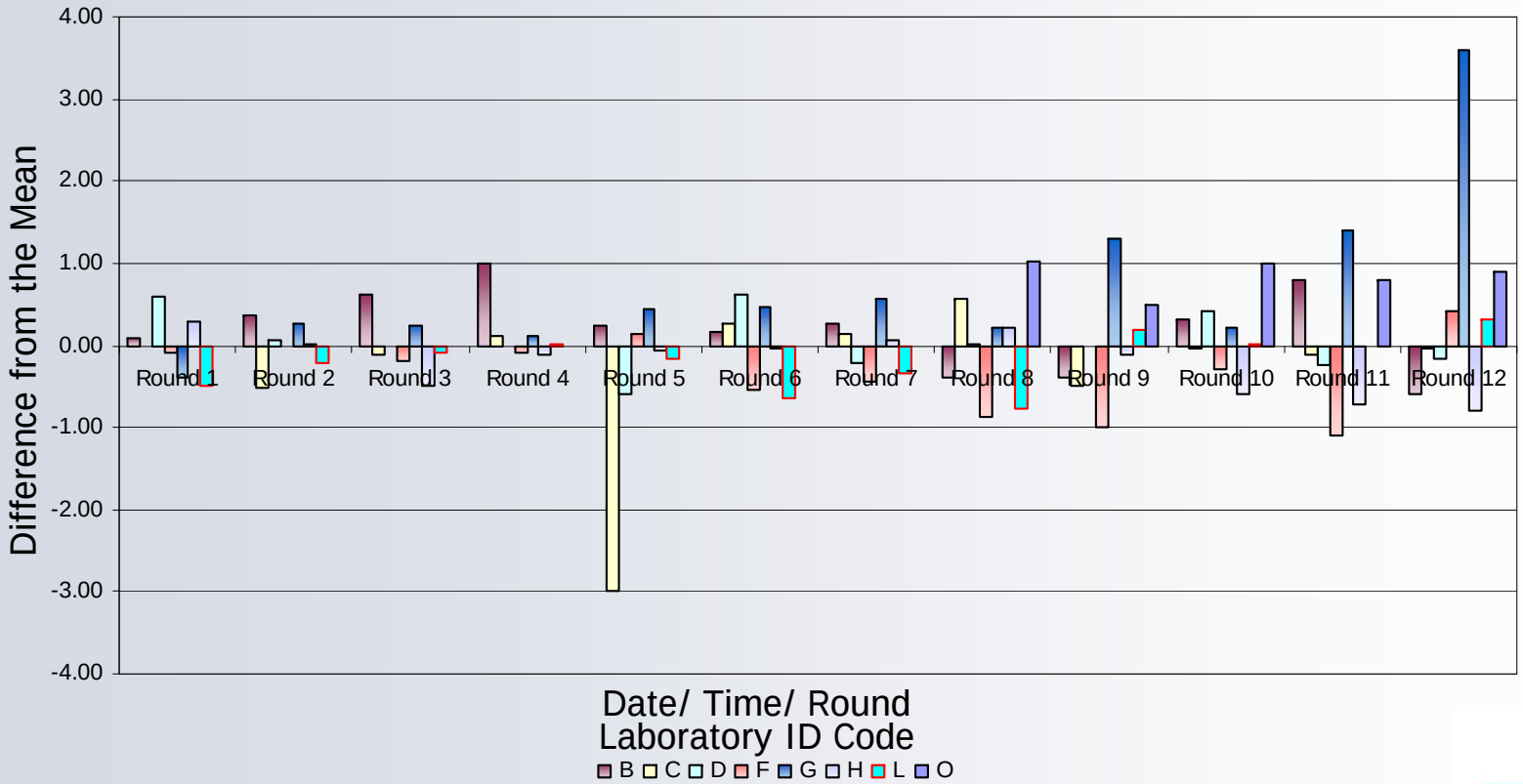


# Oleic % Oil

## Absolute Deviation of Differences and Number of Results



# Oleic % Oil
## Difference from the Mean vs. Time

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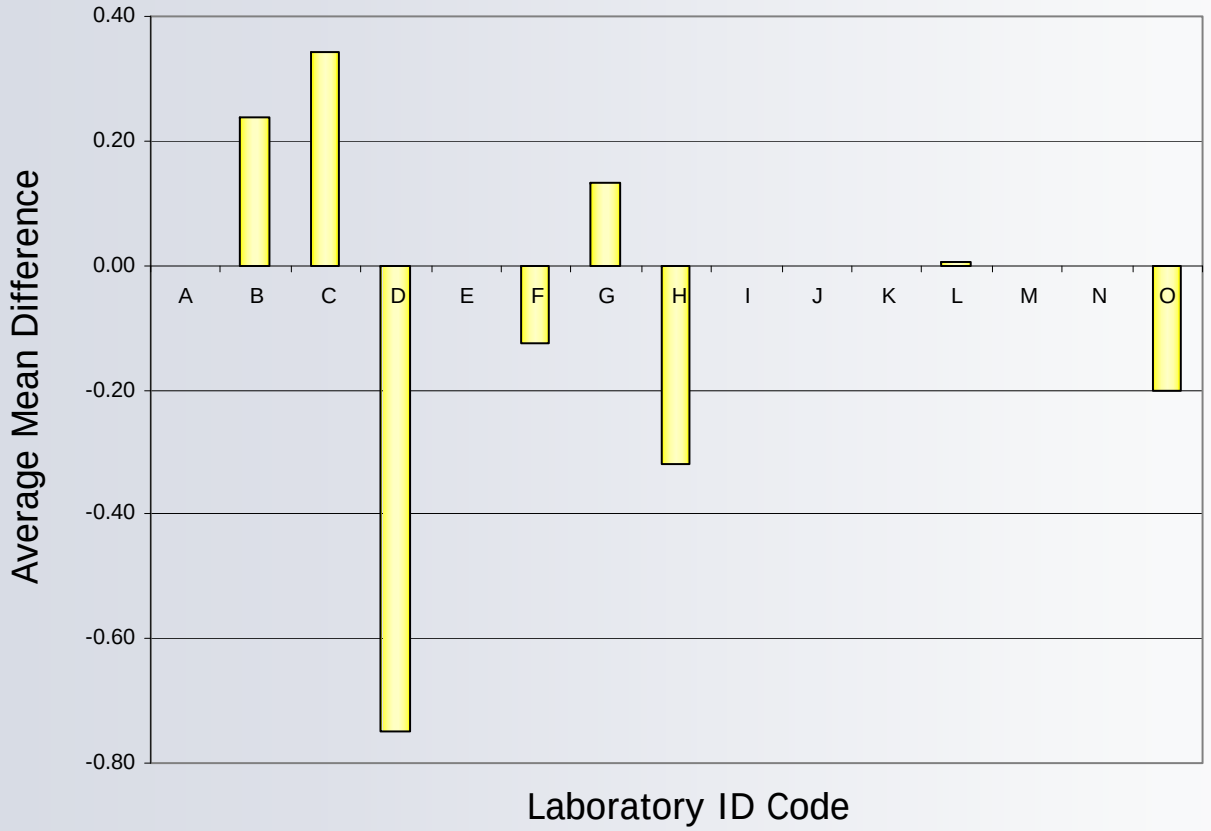
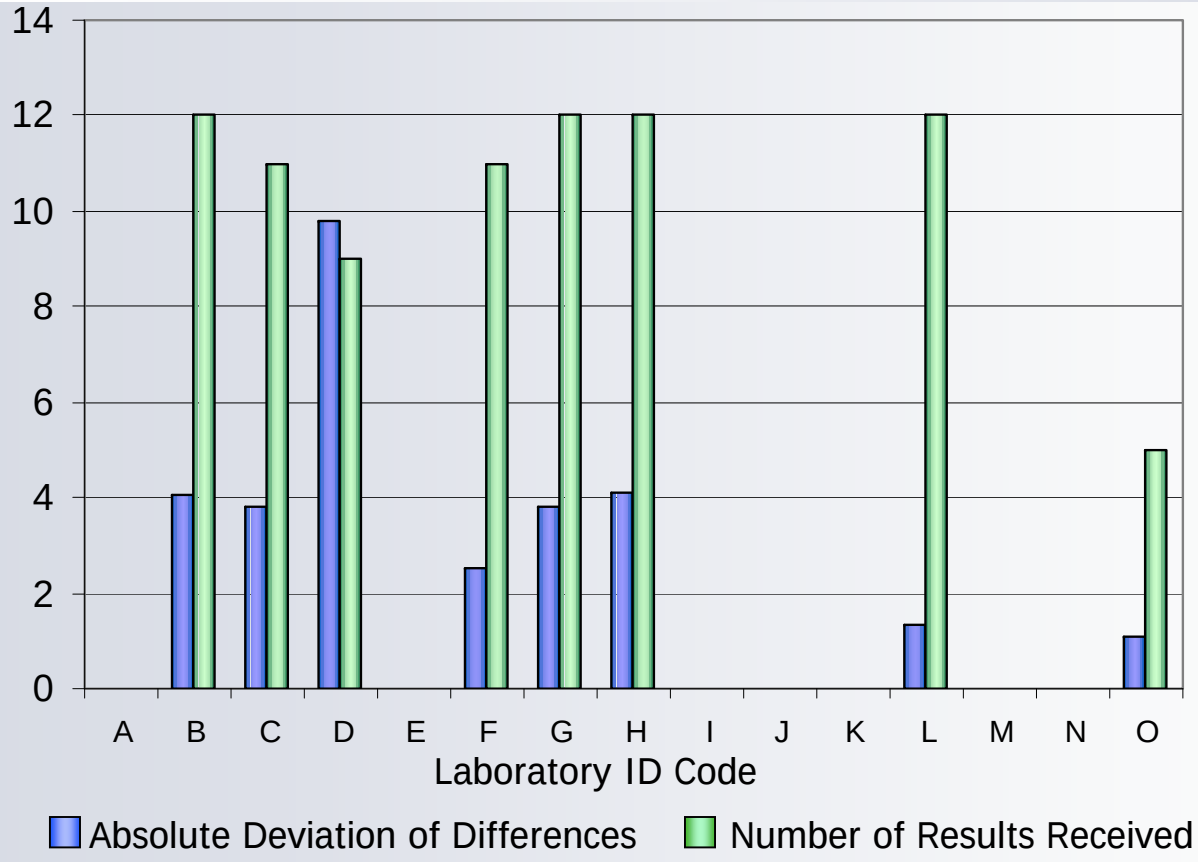
# Linoleic % Oil
## Average of the Mean Difference

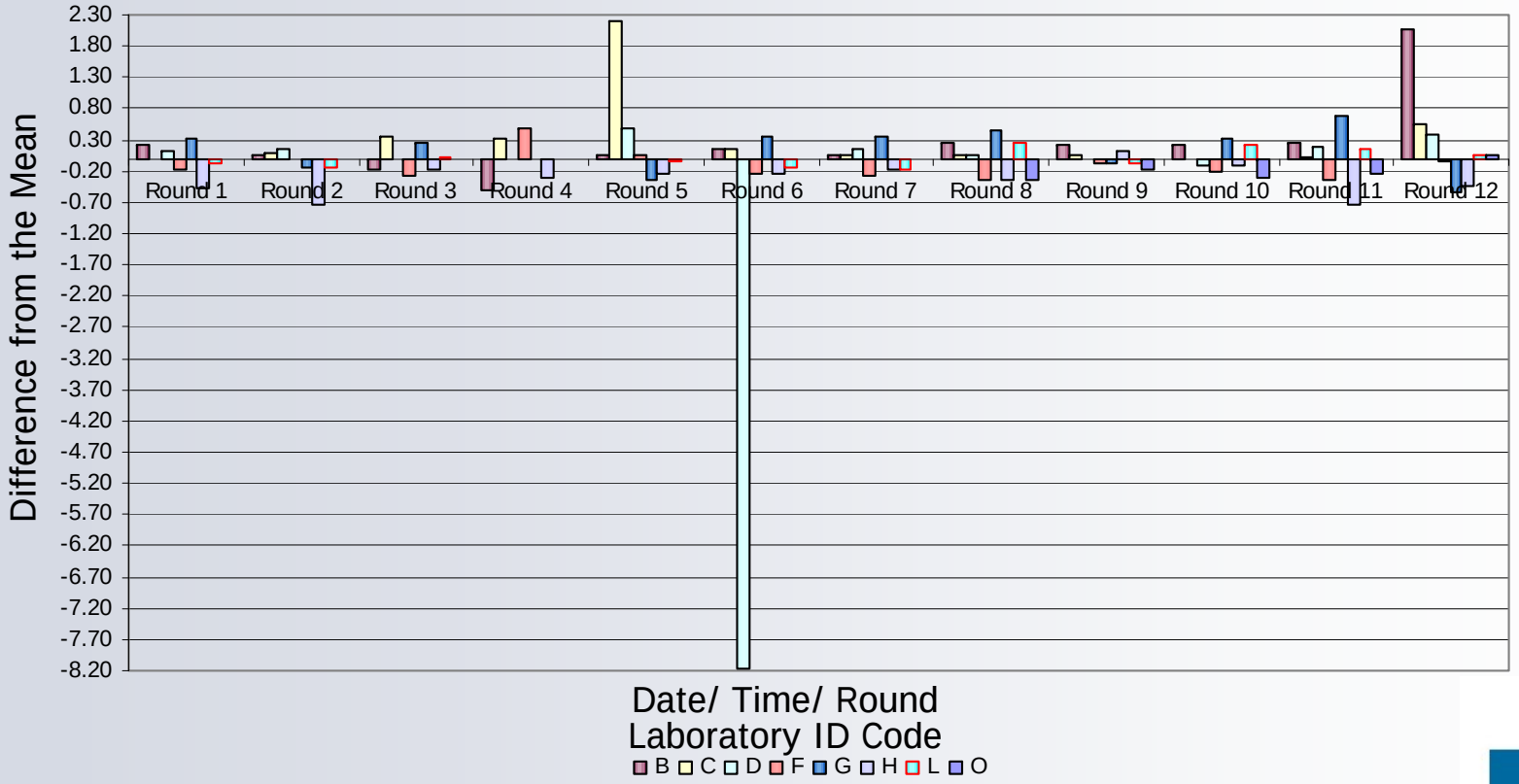


# Linoleic % Oil

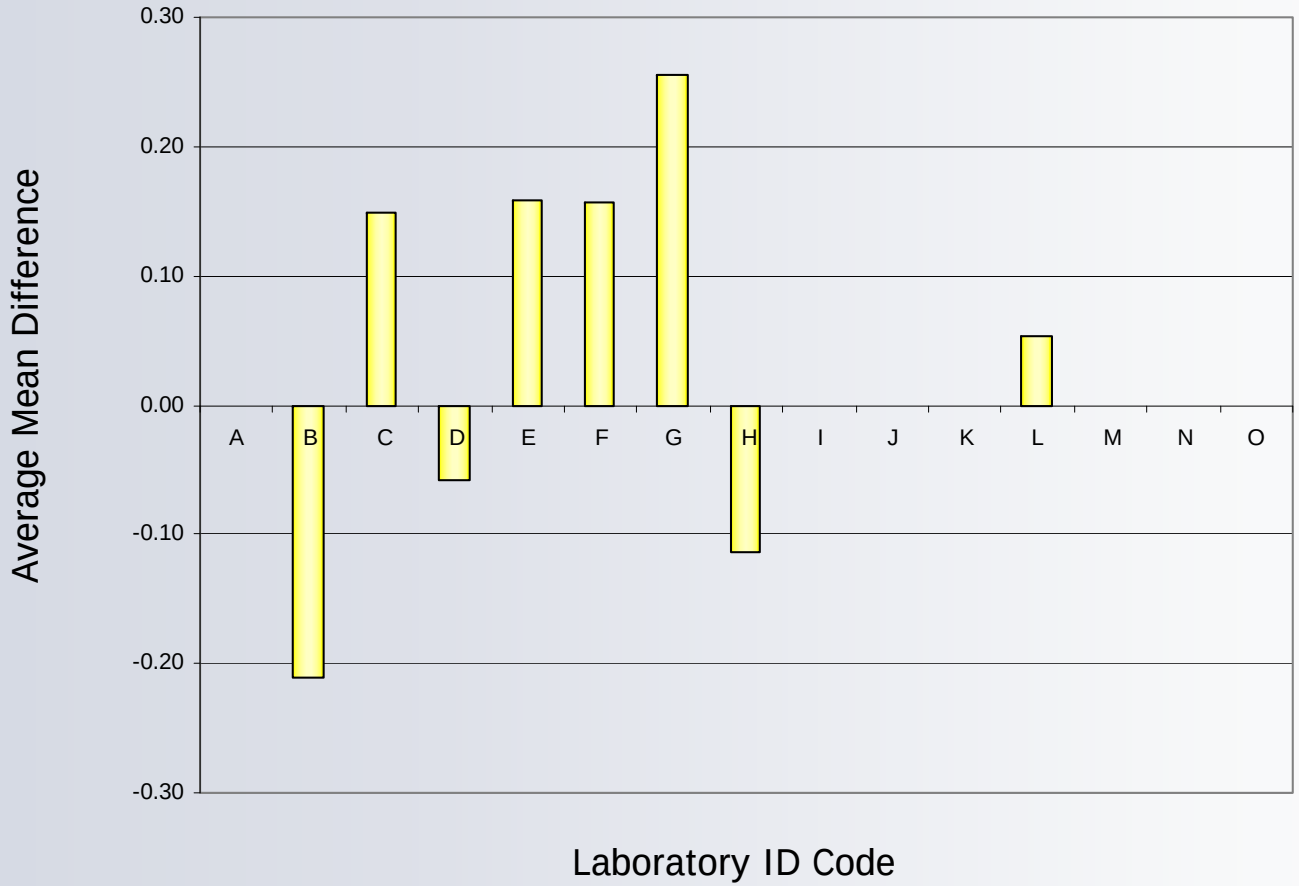
## Absolute Deviation of Differences and Number of Results



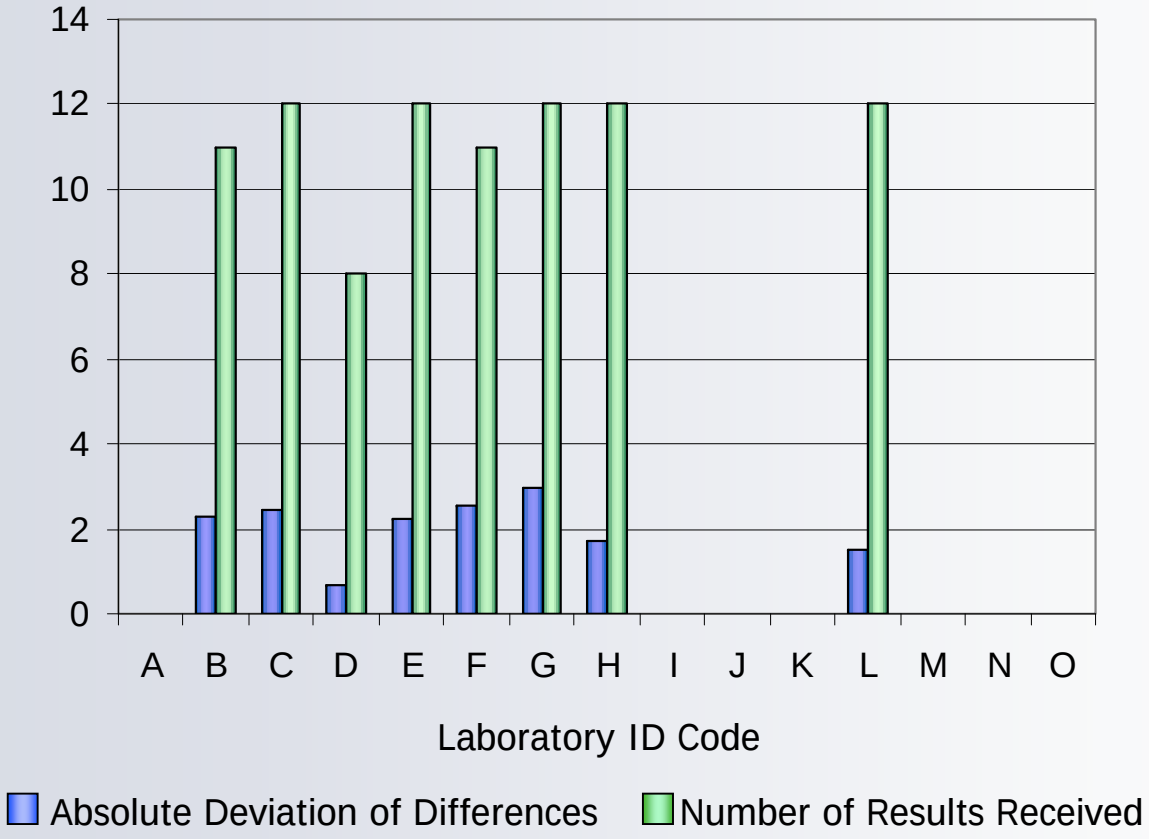
# Linoleic % Oil
## Difference from the Mean vs. Time



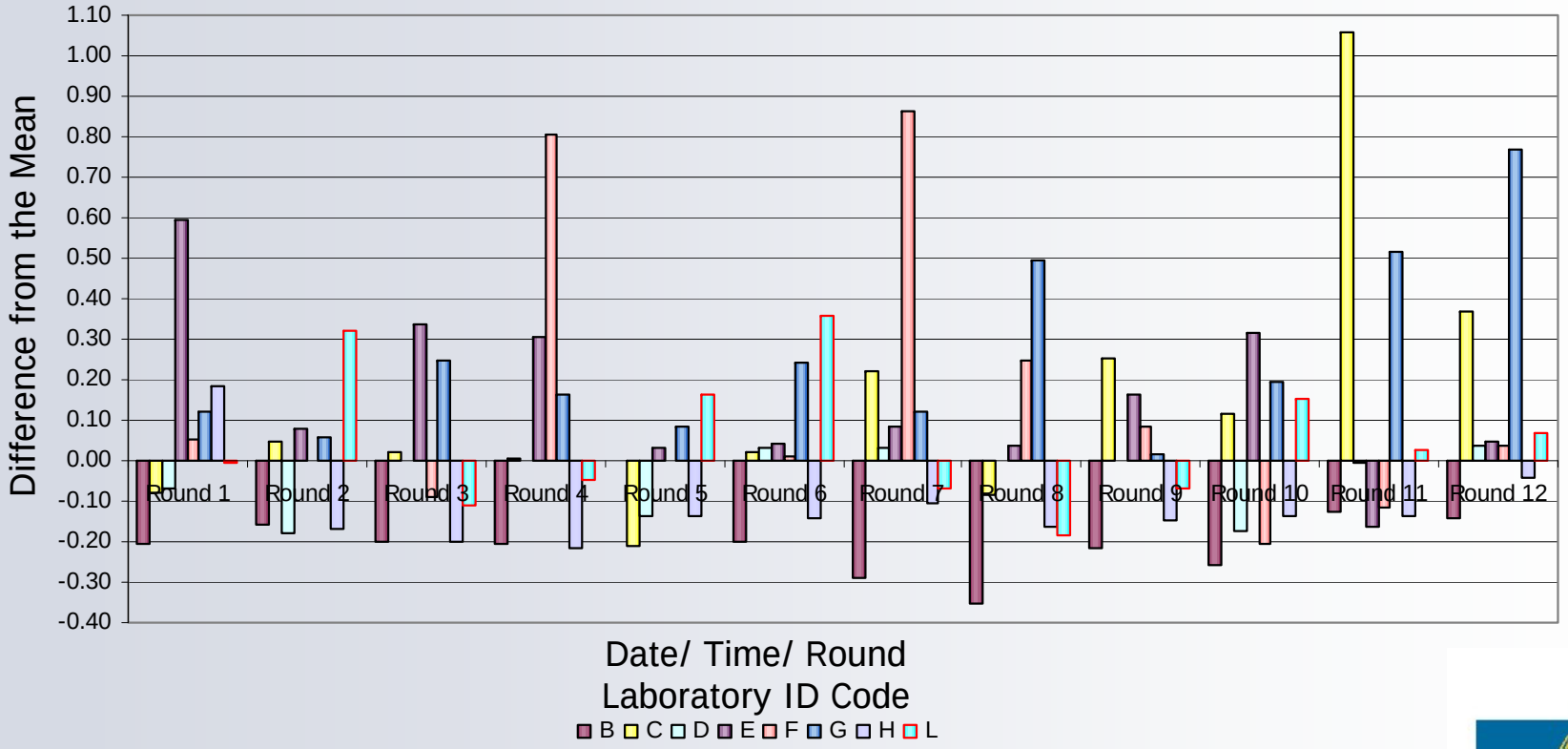
# Free Fatty Acid % Oil
## Average of the Mean Difference



# Free Fatty Acid % Oil
## Absolute Deviation of Differences and Number of Samples



# Free Fatty Acid % Oil
## Difference from the Mean vs. Time

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# Missing Results

Participation increased this season with only 4 missing submissions for the season compared to 7 for 2004/2005.

| Round Number | Participant |
|---|---|
| 1 | - |
| 2 | F |
| 3 | D |
| 4 | D |
| 5 | - |
| 6 | - |
| 7 | - |
| 8 | - |
| 9 | D |
| 10 | - |
| 11 | - |
| 12 | - |

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# Plans for 2006/2007

- CereTech Pty Ltd (previously ABB Grain Ltd, previously AusBulk Ltd) to continue as coordinators of the test check program.
- Round 1 commenced 14/11/2006
- Dao Ho will be collating the results for 2006/2007. If e-mailing your results, please send them to: **dao.ho@abb.com.au**

# Suggestions? Opinions? Feedback?

I am after any feedback, positive or negative, regarding the program.

If you have any suggestions on how the program could be run better or if you no longer want to participate, please contact me. I look forward to hearing from you all!

Dao Ho
Ph 08 8304 5030
Dao.ho@abb.com.au

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# Thank you for your participation in the 2005/2006 AOF Test Check Program