ADVANCED NURSERY EVALUATION

FOR SOFT WHEAT MILLING AND BAKING QUALITY

2009 CROP

Clay Sneller - Ohio State University

Wooster, OH

UEWWN

STD = Branson

| LAB NO. | ENTRY NO. | ENTRY | MILLING QUALITY SCORE | | BAKING QUALITY SCORE | | SOFT. EQUIV. SCORE | | | MICRO T.W. LB/BU | | FLOUR YIELD % | | SOFT. EQUIV. % | | FLOUR PROT. % | | LACTIC ACID SRC | | SUCROSE SRC % | | COOKIE DIAM. CM. | | TOP GR. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **** | STD= | Branson | 64.36 | C | 55.00 | D | 74.57 | B | | 61.29 | | 71.35 | | 61.54 | | 8.29 | | 109.47 | | 88.71 | | 18.88 | | 7.00 |
| 920799 | 1 | ROANE | 51.8 | D | 30.5 | F | 63.9 | C | | 63.7 | | 68.8 | Q | 57.8 | * | 8.53 | | 113.8 | | 97.8 | | 18.14 | Q | 6 |
| 920800 | 2 | INW0411 | 59.9 | D | 39.7 | F | 57.6 | D | | 60.6 | | 70.5 | * | 55.6 | * | 8.91 | | 95.2 | | 97.7 | | 18.42 | * | 6 |
| 920801 | 3 | BRANSON | 64.4 | C | 55.0 | D | 74.6 | B | | 61.3 | | 71.4 | | 61.5 | | 8.29 | | 109.5 | | 88.7 | | 18.88 | | 7 |
| 920802 | 4 | BESS | 55.0 | D | 36.9 | F | 46.1 | E | | 62.6 | | 69.5 | Q | 51.6 | Q | 9.12 | * | 96.7 | | 96.8 | | 18.33 | Q | 6 |
| 920803 | 5 | LA01*425 | 56.7 | D | 49.6 | E | 65.2 | C | | 63.2 | | 69.8 | * | 58.2 | | 8.36 | | 100.0 | | 95.8 | | 18.71 | | 5 |
| 920804 | 6 | IL02-19463 | 57.4 | D | 34.8 | F | 63.1 | C | | 62.7 | | 70.0 | * | 57.5 | * | 9.27 | * | 111.8 | | 97.7 | | 18.27 | Q | 4 |
| 920805 | 7 | B030543 | 63.8 | C | 60.8 | C | 55.9 | D | | 63.1 | | 71.2 | | 55.0 | * | 8.30 | | 99.4 | | 93.5 | | 19.05 | | 7 |
| 920806 | 8 | KY97C-0321-02-01 | 64.5 | C | 42.1 | E | 60.4 | C | | 61.1 | | 71.4 | | 56.6 | * | 8.43 | | 109.6 | | 93.9 | | 18.49 | * | 5 |
| 920807 | 9 | KY97C-0519-04-07 | 62.7 | C | 46.9 | E | 67.7 | C | | 60.5 | | 71.0 | | 59.1 | | 7.83 | | 109.4 | | 91.5 | | 18.63 | | 5 |
| 920808 | 10 | KY97C-0508-01-01A-1 | 52.7 | D | 50.7 | D | 63.1 | C | | 62.3 | | 69.0 | Q | 57.5 | * | 8.48 | | 123.0 | | 95.2 | | 18.75 | | 6 |
| 920809 | 11 | IL04-8445 | 51.9 | D | 43.9 | E | 63.1 | C | | 62.8 | | 68.9 | Q | 57.5 | * | 7.99 | | 118.5 | | 99.7 | | 18.54 | * | 6 |
| 920810 | 12 | IL04-11003 | 69.9 | C | 47.1 | E | 66.2 | C | | 63.2 | | 72.5 | | 58.6 | | 8.17 | | 115.2 | | 90.8 | | 18.64 | | 7 |
| 920811 | 13 | OH04-264-58 | 62.5 | C | 24.5 | F | 64.5 | C | | 59.6 | * | 71.0 | | 58.0 | * | 8.26 | | 131.7 | | 103.1 | | 17.96 | Q | 5 |
| 920812 | 14 | OH04-268-39 | 57.1 | D | 53.8 | D | 70.9 | B | | 61.5 | | 69.9 | * | 60.3 | | 8.32 | | 112.9 | | 94.6 | | 18.84 | | 7 |
| 920813 | 15 | OH05-248-38 | 55.8 | D | 25.4 | F | 49.6 | E | | 62.1 | | 69.6 | Q | 52.8 | Q | 8.57 | | 101.1 | | 96.0 | | 17.99 | Q | 5 |
| 920814 | 16 | MD00W53-07-1 | 41.0 | E | 21.6 | F | 30.3 | F | | 62.6 | | 66.7 | Q | 46.0 | Q | 10.03 | Q | 92.8 | | 103.9 | | 17.87 | Q | 4 |
| 920815 | 17 | MD01W233-07-1 | 57.2 | D | 17.7 | F | 47.4 | E | | 63.0 | | 69.9 | * | 52.0 | Q | 9.36 | * | 98.5 | | 95.1 | | 17.76 | Q | 6 |
| 920816 | 18 | G89209 | 67.8 | C | 58.5 | D | 68.4 | C | | 62.3 | | 72.0 | | 59.4 | | 8.30 | | 98.3 | | 91.9 | | 18.98 | | 6 |
| 920817 | 19 | G89201 | 62.2 | C | 48.1 | E | 71.3 | B | | 61.2 | | 70.9 | | 60.4 | | 9.44 | * | 92.4 | | 91.1 | | 18.67 | | 7 |
| 920818 | 20 | G89222 | 47.3 | E | 45.8 | E | 60.9 | C | | 61.0 | | 67.9 | Q | 56.8 | * | 8.16 | | 94.8 | | 98.3 | | 18.60 | * | 6 |
| 920819 | 21 | M05-1172 | 65.7 | C | 50.2 | D | 62.8 | C | | 59.8 | * | 71.6 | | 57.4 | * | 8.10 | | 108.9 | | 95.1 | | 18.73 | | 7 |
| 920820 | 22 | M05-1526 | 57.9 | D | 49.6 | E | 55.4 | D | | 61.2 | | 70.1 | * | 54.8 | Q | 9.13 | * | 87.5 | | 98.5 | | 18.71 | | 5 |
| 920821 | 23 | M05*1589 | 53.8 | D | 38.0 | F | 67.5 | C | | 60.9 | | 69.3 | Q | 59.1 | | 8.08 | | 107.0 | | 94.8 | | 18.36 | Q | 7 |
| 920822 | 24 | B040798 | 69.8 | C | 61.8 | C | 72.2 | B | | 60.0 | * | 72.4 | | 60.7 | | 8.54 | | 110.8 | | 90.3 | | 19.08 | | 5 |
| 920823 | 25 | M05-1531 | 59.4 | D | 44.1 | E | 57.4 | D | | 61.5 | | 70.4 | * | 55.5 | * | 9.25 | * | 93.1 | | 94.2 | | 18.55 | * | 4 |
| 920824 | 26 | P.99751RA1-6-3-94 | 46.7 | E | 43.0 | E | 54.3 | D | | 61.6 | | 67.8 | Q | 54.4 | Q | 9.17 | * | 101.4 | | 98.1 | | 18.52 | * | 4 |
| 920825 | 27 | P.02444A1-23-1 | 55.0 | D | 47.2 | E | 58.0 | D | | 60.2 | | 69.5 | Q | 55.7 | * | 8.45 | | 99.6 | | 96.3 | | 18.64 | | 6 |

ADVANCED NURSERY EVALUATION

FOR SOFT WHEAT MILLING AND BAKING QUALITY

2009 CROP

Clay Sneller - Ohio State University

Wooster, OH

UEWWN

STD = Branson

| LAB NO. | ENTRY NO. | ENTRY | MILLING QUALITY SCORE | | BAKING QUALITY SCORE | | SOFT. EQUIV. SCORE | | | MICRO T.W. LB/BU | | FLOUR YIELD % | | SOFT. EQUIV. % | | FLOUR PROT. % | | LACTIC ACID SRC | | SUCROSE SRC % | | COOKIE DIAM. CM. | | TOP GR. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **** | STD= | Branson | 64.36 | C | 55.00 | D | 74.57 | B | | 61.29 | | 71.35 | | 61.54 | | 8.29 | | 109.47 | | 88.71 | | 18.88 | | 7.00 |
| 920826 | 28 | P.05219A1-13-16 | 60.3 | C | 43.8 | E | 58.0 | D | | 61.0 | | 70.5 | * | 55.7 | * | 8.41 | | 86.9 | | 98.7 | | 18.54 | * | 7 |
| 920827 | 29 | W06-089 | 60.2 | C | 65.1 | C | 66.6 | C | | 62.4 | | 70.5 | * | 58.7 | | 8.14 | | 111.1 | | 92.3 | | 19.18 | | 6 |
| 920828 | 30 | W06-522A | 59.9 | D | 55.9 | D | 65.9 | C | | 60.5 | | 70.5 | * | 58.5 | | 8.15 | | 114.3 | | 91.3 | | 18.90 | | 4 |
| 920829 | 31 | Z03-1281 | 67.8 | C | 30.1 | F | 77.0 | B | | 60.7 | | 72.0 | | 62.4 | | 8.07 | | 113.0 | | 93.0 | | 18.13 | Q | 6 |
| 920830 | 32 | Z03-0496 | 46.2 | E | 35.8 | F | 59.0 | D | | 60.8 | | 67.7 | Q | 56.1 | * | 8.64 | | 98.3 | | 102.5 | | 18.30 | Q | 4 |
| 920831 | 33 | GA031238-DH7-7A28 | 60.6 | C | 29.9 | F | 47.8 | E | | 63.0 | | 70.6 | | 52.2 | Q | 9.30 | * | 118.2 | | 98.5 | | 18.12 | Q | 4 |
| 920832 | 34 | BLAZER | 58.2 | D | 68.7 | C | 54.3 | D | | 61.8 | | 70.1 | * | 54.4 | Q | 8.72 | | 95.0 | | 92.1 | | 19.29 | | 7 |
| 920833 | 35 | PROBE | 52.7 | D | 60.3 | C | 69.1 | C | | 62.2 | | 69.0 | Q | 59.6 | | 8.97 | * | 100.0 | | 95.9 | | 19.04 | | 6 |
| 920834 | 36 | RUMUR | 63.7 | C | 57.9 | D | 66.3 | C | | 60.2 | | 71.2 | | 58.6 | | 8.39 | | 119.1 | | 98.1 | | 18.96 | | 5 |
| 920835 | 37 | VA05W-151 | 59.6 | D | 38.5 | F | 48.4 | E | | 64.7 | | 70.4 | * | 52.4 | Q | 8.82 | | 114.7 | | 102.9 | | 18.38 | * | 7 |
| 920836 | 38 | VA05W-168 | 57.7 | D | 45.5 | E | 55.2 | D | | 63.6 | | 70.0 | * | 54.7 | Q | 8.79 | | 98.0 | | 100.0 | | 18.59 | * | 6 |
| 920837 | 39 | VA05W-258 | 50.8 | D | 8.8 | F | 56.7 | D | | 60.8 | | 68.6 | Q | 55.3 | * | 8.64 | | 118.5 | | 104.6 | | 17.49 | Q | 5 |
| 920838 | 40 | AR98022-19-3 | 47.4 | E | 33.8 | F | 37.8 | F | | 62.3 | | 68.0 | Q | 48.7 | Q | 9.51 | * | 103.3 | | 98.1 | | 18.24 | Q | 5 |
| 920839 | 41 | AR98023-5-1 | 57.6 | D | 57.2 | D | 60.5 | C | | 61.5 | | 70.0 | * | 56.6 | * | 8.63 | | 80.4 | | 95.6 | | 18.94 | | 6 |
| 920840 | 42 | NC05-21090 | 55.4 | D | 36.1 | F | 61.1 | C | | 62.8 | | 69.6 | Q | 56.8 | * | 8.65 | | 113.4 | | 98.2 | | 18.31 | Q | 7 |
| | | average | 57.81 | | 43.68 | | 60.04 | | | 61.76 | | 70.05 | | 56.45 | | 8.63 | | 105.17 | | 96.21 | | 18.54 | | 5.69 |

ADVANCED EVALUATION

FOR SOFT WHEAT MILLING AND BAKING QUALITY

2009 CROP

Clay Sneller - Ohio State University

Wooster, OH

UEWWN

GRAIN CONDITION SCALE

FHB, SPROUTING and BLACK POINT

| | |
|---|---|
| 0 | None |
| 1 | up to 10% |
| 2 | 10% to 40% |
| 3 | above 40% |

SHRIVELING

| | |
|---|---|
| 0 | None |
| 1 | Some |
| 2 | Moderate |
| 3 | Heavy |

| LAB NO. | ENTRY NO. | ENTRY | FHB (0-3) | WEATHERING (Yes/No) | SPROUTING (0-3) | BLACK POINT (0-3) | SHRIVELING AFTER CLEANING (0-3) | COLOR | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|
| 920799 | 1 | ROANE | 1 | n | 0 | 0 | 0 | red | most FHB from IL |
| 920800 | 2 | INW0411 | 1 | y | 0 | 0 | 1 | red | |
| 920801 | 3 | BRANSON | 1 | y | 0 | 0 | 0 | red | most FHB from IL |
| 920802 | 4 | BESS | 1 | y | 0 | 0 | 0 | red | |
| 920803 | 5 | LA01*425 | 1 | y | 0 | 0 | 0 | red | |
| 920804 | 6 | IL02-19463 | 1 | y | 0 | 0 | 0 | red | most FHB from IL |
| 920805 | 7 | B030543 | 0 | y | 1 | 0 | 0 | red | sprout from IL |
| 920806 | 8 | KY97C-0321-02-01 | 1 | y | 0 | 0 | 1 | red | most FHB from IL |
| 920807 | 9 | KY97C-0519-04-07 | 1 | y | 1 | 0 | 1 | red | |
| 920808 | 10 | KY97C-0508-01-01A-1 | 1 | y | 0 | 1 | 0 | red | most FHB from IL; most BL pt from Agripro |
| 920809 | 11 | IL04-8445 | 1 | y | 0 | 0 | 0 | red | |
| 920810 | 12 | IL04-11003 | 1 | n | 0 | 1 | 0 | red | |
| 920811 | 13 | OH04-264-58 | 1 | y | 0 | 0 | 1 | red | |
| 920812 | 14 | OH04-268-39 | 1 | y | 0 | 0 | 1 | red | most FHB from IL |
| 920813 | 15 | OH05-248-38 | 1 | y | 0 | 0 | 1 | red | most FHB from IL |
| 920814 | 16 | MD00W53-07-1 | 0 | n | 0 | 2 | 2 | red | BL pt in all 3 groups |
| 920815 | 17 | MD01W233-07-1 | 0 | n | 0 | 2 | 1 | red | BL pt in all 3 groups |
| 920816 | 18 | G89209 | 0 | y | 0 | 0 | 1 | red | |
| 920817 | 19 | G89201 | 0 | n | 0 | 1 | 0 | red | |
| 920818 | 20 | G89222 | 0 | y | 0 | 0 | 0 | red | |
| 920819 | 21 | M05-1172 | 1 | y | 0 | 0 | 1 | red | most FHB from IL |
| 920820 | 22 | M05-1526 | 0 | y | 0 | 0 | 1 | red | |
| 920821 | 23 | M05*1589 | 1 | n | 0 | 0 | 0 | red | |
| 920822 | 24 | B040798 | 1 | y | 0 | 0 | 0 | red | |
| 920823 | 25 | M05-1531 | 0 | y | 0 | 0 | 1 | red | |
| 920824 | 26 | P.99751RA1-6-3-94 | 0 | y | 0 | 0 | 1 | red | |
| 920825 | 27 | P.02444A1-23-1 | 0 | y | 0 | 0 | 1 | red | |
| 920826 | 28 | P.05219A1-13-16 | 0 | y | 0 | 0 | 1 | red | |
| 920827 | 29 | W06-089 | 0 | y | 0 | 1 | 1 | red | most BL pt from Agripro |
| 920828 | 30 | W06-522A | 0 | y | 0 | 0 | 1 | red | |
| 920829 | 31 | Z03-1281 | 1 | y | 0 | 0 | 1 | red | most FHB from IL |
| 920830 | 32 | Z03-0496 | 0 | y | 0 | 0 | 2 | red | missing sample from AgriPro |
| 920831 | 33 | GA031238-DH7-7A28 | 1 | y | 0 | 1 | 2 | red | |
| 920832 | 34 | BLAZER | 1 | y | 0 | 0 | 1 | red | most FHB from IL |
| 920833 | 35 | PROBE | 0 | y | 0 | 0 | 0 | red | |
| 920834 | 36 | RUMUR | 0 | y | 0 | 0 | 1 | red | |
| 920835 | 37 | VA05W-151 | 1 | n | 0 | 1 | 1 | red | most FHB from IL |
| 920836 | 38 | VA05W-168 | 0 | n | 0 | 1 | 1 | red | |
| 920837 | 39 | VA05W-258 | 1 | y | 0 | 0 | 0 | red | |
| 920838 | 40 | AR98022-19-3 | 0 | y | 0 | 0 | 2 | red | |
| 920839 | 41 | AR98023-5-1 | 1 | y | 0 | 0 | 1 | red | |
| 920840 | 42 | NC05-21090 | 1 | y | 0 | 0 | 1 | red | |

ADVANCED NURSERY
EVALUATION SUMMARY
2009 CROP

Clay Sneller - Ohio State University
Wooster, OH
UEWWN

| | | STD. | | AVG. | |
|---|---|---|---|---|---|
| | | DATA | | DATA | |
| | | | | | |
| MILLING QUALITY SCORE | | 64.36 | C | 57.81 | |
| BAKING QUALITY SCORE | | 55.00 | D | 43.68 | |
| SE SCORE | | 74.57 | B | 60.04 | |

| | | STD. | | AVG. | ADJ. | NOTATION | |
|---|---|---|---|---|---|---|---|
| | | DATA | | DATA | L.S.D. | | BEGINS |
| | | | | | | * | Q |
| TEST WEIGHT | | 61.29 | | 61.76 | 1.18 | 60.11 | 58.92 |
| FLOUR YIELD | | 71.35 | | 70.05 | 0.77 | 70.59 | 69.82 |
| SOFTNESS EQUIV. | | 61.54 | | 56.45 | 3.31 | 58.23 | 54.92 |
| FLOUR PROTEIN | | 8.29 | | 8.63 | 0.67 | 8.97 | 9.64 |
| SUCROSE SRC | | 88.71 | | 96.21 | | | |
| LACTIC ACID RETENTION | | 109.47 | | 105.17 | | | |
| COOKIE DIAMETER | | 18.88 | | 18.54 | 0.25 | 18.62 | 18.37 |

| | | A | B | C | D | E | F | TOTAL |
|---|---|---|---|---|---|---|---|---|
| MILLING SCORE | | 0 | 0 | 15 | 22 | 5 | 0 | |
| BAKING SCORE | | 0 | 0 | 5 | 8 | 13 | 16 | 42 |
| SOFTNESS EQUIV. SCORE | | 0 | 5 | 19 | 11 | 5 | 2 | |

# ADVANCED NURSERY EVALUATION
# FOR SOFT WHEAT MILLING AND BAKING QUALITY
# 2009 Crop

Clay Sneller - Ohio State University

Wooster, OH

UEWWN

| ENTRY | MILLING QUALITY SCORE | BAKING QUALITY SCORE | SOFT. EQUIV. SCORE | TEST WT. LB/BU | ADJ. YIELD % | SOFT. EQUIV. % | FLOUR PROT. % | LACTIC ACID SRC | SUCROSE SRC % | COOKIE DIAM. CM. | TOP GR. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nusery Average | 57.81 | 43.68 | 60.04 | 61.76 | 70.05 | 56.45 | 8.63 | 105.17 | 96.21 | 18.54 | 5.69 |
| Allis Database - Branson | 64.36 | 55.00 | 74.57 | 60.20 | 76.39 | | 8.24 | 95.70 | | 17.45 | |
| | | | | | | | | | | | |
| Branson | 64.36 | 55.00 | 74.57 | 61.29 | 71.35 | 61.54 | 8.29 | 109.47 | 88.71 | 18.88 | 7.00 |
| Branson - Average | 67.08 | 67.94 | 80.99 | 60.78 | 71.11 | 63.24 | 8.27 | 112.08 | 89.51 | 18.57 | 5.47 |
| Branonn - Standard Deviation | 6.24 | 13.16 | 4.50 | 2.15 | 0.78 | 2.57 | 0.55 | 9.10 | 7.14 | 0.63 | 1.22 |
| | | | | | | | | | | | |
| Roane | 51.80 | 30.48 | 63.92 | 63.75 | 68.85 | 57.81 | 8.53 | 113.82 | 97.84 | 18.14 | 6.00 |
| Roane - Average | 59.82 | 40.32 | 72.54 | 63.75 | 69.09 | 59.43 | 8.64 | 116.23 | 99.06 | 17.51 | 3.26 |
| Roane - Standard Deviation | 6.14 | 14.51 | 5.65 | 2.74 | 1.27 | 2.36 | 0.67 | 9.89 | 6.41 | 0.57 | 1.33 |
| | | | | | | | | | | | |
| INW 0411 | 59.88 | 39.74 | 57.58 | 60.61 | 70.46 | 55.59 | 8.91 | 95.24 | 97.69 | 18.42 | 6.00 |
| INW 0411 - Average | 66.78 | 48.93 | 64.87 | 59.80 | 69.63 | 56.74 | 8.91 | 100.84 | 92.33 | 17.72 | 4.00 |
| INW 0411 - Standard Deviation | 6.36 | 15.96 | 8.30 | 2.67 | 1.19 | 3.25 | 0.90 | 6.92 | 4.13 | 0.42 | 1.20 |

Conditional formatting set:

Blue = values less than two standard deviations from the mean of the database average

Black = values greater than two standard deviations from the mean of the database average