

North Dakota State University * Dickinson Research Extension Center

1133 State Avenue, Dickinson, ND 58601 Voice: (701) 483-2348 FAX: (701) 483-2005

| Table 15. 1985 Dickinson On-Station Barley Variety Trials | | |
|--|------------------|----------------------|
| Variety | Bushels per acre | Test weight lbs./bu. |
| Harrington | 82.4 | 48.5 |
| ND 6989 | 77.9 | 50.0 |
| Lewis | 77.5 | 50.5 |
| Morex | 77.4 | 49.0 |
| Robust | 75.3 | 48.5 |
| Piston | 73.7 | 49.0 |
| Bowman | 73.6 | 51.5 |
| Hector | 68.3 | 49.0 |
| ND 7369 | 67.5 | 46.5 |
| Azure | 66.4 | 47.0 |
| Hazen | 64.7 | 47.0 |
| ND 7309 | 59.9 | 48.0 |
| Glenn | 53.1 | 48.0 |
| | | |
| Highest | 82.4 | 51.5 |

| | | |
|--|------|------|
| Lowest | 53.1 | 46.5 |
| C.V. % | 16 | |
| Lsd @ 5% | 10.7 | |
| Seeding Rate: (approx. 1.3 bu./acre); Seeding Date: April 23; Yield Goal: 65 bu./acre; Herbicide Applied: Hoelon-Buctril; Harvest Date: August 7 | | |

| Table 16. Long Term Comparison - Barley | | | | | | |
|---|---------------------------|------|------|------|------|------------|
| Variety | Yield in bushels per acre | | | | | |
| | 1981 | 1982 | 1983 | 1984 | 1985 | 5-yr. Avg. |
| Glenn | 45.4 | 77.4 | 57.1 | 61.2 | 53.1 | 58.8 |
| Hector | 53.0 | 80.8 | 68.1 | 66.2 | 68.3 | 67.3 |
| Morex | 52.0 | 75.6 | 65.7 | 62.2 | 77.4 | 66.6 |
| Azure | | 80.5 | 77.3 | 77.0 | 66.4 | |
| Harrington | | 85.3 | 73.6 | 67.7 | 82.4 | |
| Bowman | | | 67.7 | 84.9 | 73.6 | |
| Hazen | | | 71.8 | 78.4 | 64.7 | |
| Robust | | | 67.4 | 65.7 | 75.3 | |
| | | | | | | |

| | | | | | | |
|----------|-----|-----|-----|-----|------|-----|
| Lsd @ 5% | 4.4 | 7.2 | 6.3 | 6.1 | 10.7 | .72 |
|----------|-----|-----|-----|-----|------|-----|

| Table 17. 198 Dickinson Off-Station Barley Variety Trials | | | | | | | |
|--|-----------|-------|--------|------------|----------|---------|---------|
| Variety | Dickinson | Beach | Beulah | Glen Ullin | Hannover | Manning | 6-Sites |
| Azure | 66.4 | 25.6 | 59.3 | 49.5 | 64.6 | 59.7 | 54.2 |
| Bowman | 73.6 | 28.3 | 61.2 | 59.6 | 65.6 | 56.9 | 57.5 |
| Hazen | 64.7 | 28.8 | 55.6 | 61.9 | 59.6 | 57.9 | 54.8 |
| Hector | 68.3 | 35.6 | 54.7 | 58.7 | 64.2 | 65.3 | 57.8 |
| Morex | 77.4 | 38.8 | 63.0 | 55.9 | 69.7 | 65.3 | 61.7 |
| Piston | 73.7 | 20.1 | 64.4 | 63.7 | 76.6 | 64.2 | 60.5 |
| Lsd 5% | 10.7 | 6.0 | 4.8 | 11.5 | 6.9 | 7.9 | 7.9 |
| CV % | 16.0 | 15.8 | 6.2 | 15.3 | 8.1 | 9.0 | |
| Test Weight lbs./bu. | | | | | | | |
| Azure | 42.5 | 38.0 | 43.0 | 43.0 | 44.0 | 43.0 | 42.3 |
| Bowman | 46.0 | 44.5 | 47.5 | 47.0 | 47.5 | 47.5 | 46.7 |
| Hazen | 43.0 | 37.5 | 45.0 | 43.0 | 44.5 | 45.0 | 43.0 |
| Hector | 45.0 | 43.0 | 45.0 | 45.5 | 47.5 | 47.5 | 45.6 |
| Morex | 45.0 | 39.0 | 44.0 | 44.0 | 44.5 | 44.0 | 43.4 |
| Piston | 47.0 | 43.0 | 47.0 | 45.0 | 48.0 | 48.0 | 46.3 |

| | | | | | | | |
|---|------|------|------|------|------|------|--|
| Seeding Date | 4-23 | 5-01 | 4-29 | 4-30 | 4-26 | 4-19 | |
| Harvest Date | 8-07 | 8-14 | 8-15 | 8-16 | 8-20 | 8-09 | |
| Seeding Rate: (approx. 1.3 bu./acre); Yield Goal: 65 bu./acre; Fertilizer Applied: Based on soil test at each site.; Herbicide Applied: Hoelon-Buctril | | | | | | | |

| Table 18. 1985 Hettinger and Off-Station Barley Variety Trials | | | | | | | |
|---|------------------|--------|---------|-------------|----------|---------|----------|
| Variety | Bushels per Acre | | | | | | |
| | Hettinger | Regent | Flasher | Thunderhawk | Scranton | 5 Sites | 11 Sites |
| Azure | 49.2 | 56.6 | 56.1 | 51.0 | 88.7 | 60.3 | 57.0 |
| Bowman | 52.5 | 78.8 | 75.7 | 70.3 | 98.5 | 75.2 | 65.5 |
| Hazen | 45.9 | 53.1 | 49.1 | 46.7 | 102.7 | 59.5 | 56.9 |
| Hector | 50.8 | 72.3 | 64.7 | 67.2 | 107.5 | 72.5 | 64.5 |
| Morex | 46.2 | 55.8 | 42.2 | 43.7 | 81.7 | 53.9 | 58.2 |
| Piston | 42.9 | 63.0 | 57.7 | 56.6 | 112.8 | 66.6 | 63.2 |
| Robust | 36.8 | 53.1 | 39.7 | 44.8 | 100.4 | 55.0 | |
| LSD @ 5% | 7.6 | 3.8 | 9.5 | 5.4 | 11.4 | 8.0 | 8.2 |
| CV % | 11.9 | 4.2 | 11.6 | 6.6 | 7.7 | | |
| Seeding | | | | | | | |

| | | | | | | | |
|----------------------|----------|----------|----------|----------|----------|------|------|
| Seeding Date | April 17 | April 18 | April 19 | April 19 | April 18 | | |
| Harvest Date | Aug. 7 | Aug. 5 | Aug. 6 | Aug. 5 | Aug. 19 | | |
| Test Weight lbs./bu. | | | | | | | |
| Azure | 41.7 | 42.6 | 44.0 | 45.7 | 48.9 | 44.6 | 43.3 |
| Bowman | 52.3 | 49.9 | 50.3 | 50.8 | 52.6 | 51.2 | 48.7 |
| Hazen | 41.2 | 41.1 | 44.5 | 45.1 | 48.5 | 44.1 | 43.5 |
| Hector | 48.5 | 47.0 | 47.4 | 49.2 | 50.9 | 48.6 | 47.0 |
| Morex | 41.8 | 41.3 | 44.7 | 45.7 | 48.6 | 44.4 | 43.9 |
| Piston | 43.3 | 45.0 | 45.4 | 47.1 | 50.9 | 46.3 | 46.3 |
| Robust | 44.8 | 43.3 | 46.4 | 46.2 | 50.3 | 46.2 | |

| Table 19. Barley Variety Trial, Late Seeding | | | |
|---|---------------|-------------|--------------|
| Variety | Avg. bu./acre | Test Weight | Heading Date |
| Robust | 53.0 | 48.0 | 7-22 |
| Azure | 52.6 | 45.0 | 7-22 |
| Bowman | 68.4 | 50.0 | 7-20 |
| Glenn | 39.7 | 45.0 | 7-21 |
| Harrington | 48.4 | 48.5 | 7-22 |

| | | | |
|--|------|------|------|
| Hazen | 54.1 | 47.5 | 7-23 |
| Hector | 58.4 | 51.0 | 7-31 |
| Lewis | 63.7 | 51.5 | 7-31 |
| Morex | 52.7 | 48.0 | 7-22 |
| ND 6989 | 62.0 | 51.5 | 7-23 |
| ND 7309 | 66.8 | 48.0 | 7-22 |
| ND 7369 | 54.4 | 48.0 | 7-22 |
| Piston | 44.4 | 50.0 | 7-26 |
| Lsd @ 5% = 11.1 bu.; CV = 12.1%; Seeding date - June 5; Harvest date - August 14 | | | |

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[Email: drec@ndsuent.nodak.edu](mailto:drec@ndsuent.nodak.edu)