

North Dakota State University * Dickinson Research Extension Center

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| Variety | Bushels per Acre | Test Weight lbs./bu. | Heading date |
|------------|------------------|----------------------|--------------|
| Walera | 58.7 | 60.0 | 6-30 |
| ND 606 | 57.8 | 59.5 | 6-25 |
| Len | 52.9 | 60.0 | 6-25 |
| ND 614 | 52.6 | 61.0 | 6-25 |
| Apex 83 | 52.5 | 60.5 | 6-22 |
| Norak | 52.4 | 61.0 | 6-25 |
| Leader | 52.2 | 58.5 | 6-25 |
| HY-320 | 52.1 | 60.0 | 6-27 |
| Glenman | 52.1 | 58.5 | 6-29 |
| Stoa | 51.6 | 59.5 | 6-26 |
| A99AR | 51.4 | 58.5 | 6-28 |
| HS81-55 | 51.1 | 59.0 | 6-25 |
| Butte | 49.7 | 61.0 | 6-23 |
| ND 604 | 47.8 | 61.0 | 6-25 |
| Challenger | 47.7 | 60.0 | 6-21 |

| | | | |
|----------|------|------|------|
| Guard | 47.3 | 59.5 | 6-22 |
| ND 600 | 47.3 | 60.0 | 6-24 |
| Success | 47.0 | 59.5 | 6-30 |
| ND 620 | 47.0 | 61.0 | 6-24 |
| ND 615 | 46.7 | 62.0 | 6-28 |
| 747 | 46.7 | 59.5 | 6-21 |
| ND 618 | 46.1 | 60.0 | 6-25 |
| ND 621 | 46.0 | 59.0 | 6-28 |
| Katepwa | 45.9 | 58.5 | 6-25 |
| ND 616 | 45.5 | 57.0 | 6-25 |
| Norseman | 45.5 | 59.5 | 6-29 |
| Wheaton | 45.4 | 59.0 | 6-29 |
| Alex | 43.6 | 61.5 | 6-29 |
| Buckshot | 42.6 | 59.0 | 6-27 |
| ND 619 | 41.1 | 61.0 | 6-26 |
| Leif | 40.9 | 60.0 | 6-29 |
| Columbus | 40.8 | 59.0 | 7-01 |
| Marshall | 40.4 | 59.5 | 6-27 |
| Waldron | 40.4 | 58.0 | 6-25 |
| SD 8026 | 39.7 | 58.0 | 6-24 |

| | | | |
|--|----------|-----------|------|
| ND 617 | 39.6 | 61.5 | 6-25 |
| ND 597 | 38.2 | 60.5 | 6-24 |
| 2369 | 37.2 | 59.5 | 6-27 |
| Coteau | 36.5 | 57.5 | 6-30 |
| Erik | 36.3 | 59.5 | 6-30 |
| | | | |
| Highest | 58.7 bu. | 60.0 lbs. | |
| Lowest | 36.6 | 59.5 | |
| C.V. % | 13.2 | | |
| LSD 5% | 6.9 | | |
| Seeding Rate: 1,000,000 live seed/acre, (approx. 1 bu./ac.); Seeding Date: April 22; Fertilizer Applied: 50 lbs./ac. 18-46-0; Yield Goal: 45 bu./ac.; Herbicide Applied: Hoelon - Buctril tank mix.; Harvest Date: August 15 | | | |

| Table 2. Long Term Yield Comparison - Hard Red Spring Wheat | | | | | | |
|--|---------------------------|------|------|------|------|------------|
| Variety | Yield in bushels per acre | | | | | |
| | 1981 | 1982 | 1983 | 1984 | 1985 | 5-yr. avg. |
| Alex | 48.1 | 57.5 | 44.3 | 30.4 | 43.6 | 44.8 |
| Butte | 41.3 | 50.9 | 41.8 | 28.2 | 49.7 | 42.4 |

| | | | | | | |
|----------|------|------|------|------|------|------|
| Coteau | 43.7 | 47.3 | 41.0 | 37.4 | 63.5 | 41.2 |
| Len | 43.5 | 49.8 | 35.8 | 42.5 | 52.9 | 44.9 |
| Stoa | 53.4 | 49.5 | 45.9 | 54.3 | 51.6 | 50.9 |
| Waldron | 40.7 | 46.8 | 46.5 | 31.5 | 40.4 | 41.2 |
| Walera | 48.7 | 60.8 | 48.7 | 45.5 | 58.7 | 52.5 |
| Columbus | | 49.0 | 39.3 | 36.3 | 40.8 | |
| Leader | | 41.3 | 35.2 | 46.2 | 52.2 | |
| Marshall | | 53.9 | 45.7 | 38.5 | 40.4 | |
| 2369 | | 58.6 | 45.9 | 45.1 | 37.2 | |
| Wheaton | | | 44.0 | 50.2 | 45.4 | |
| Lsd @ 5% | 4.9 | 6.6 | 4.2 | 7.4 | 6.9 | .70 |

| Table 3. 1985 Dickinson Off-Station Hard Red Spring Wheat Variety Trials | | | | | | | |
|---|------------------|-------|--------|------------|----------|---------|----------------|
| Variety | Bushels per acre | | | | | | |
| | Dickinson | Beach | Beulah | Glen Ullin | Hannover | Manning | Average 6-site |
| Leo 747 | 46.7 | 33.1 | 36.6 | 66.1 | 69.3 | 48.6 | 50.1 |
| Alex | 43.6 | 29.7 | 36.6 | 57.0 | 54.5 | 38.0 | 43.2 |

| | | | | | | | |
|--------------|------|------|------|------|------|------|------|
| Apex 83 | 52.5 | 30.3 | 38.0 | 60.8 | 67.1 | 40.5 | 48.2 |
| Buckshot | 42.6 | 30.5 | 34.4 | 61.1 | 61.1 | 39.1 | 43.6 |
| Butte | 49.7 | 22.2 | 29.2 | 51.0 | 49.0 | 32.1 | 38.9 |
| Coteau | 36.5 | 29.4 | 34.9 | 59.7 | 55.3 | 35.7 | 41.6 |
| Guard | 47.3 | 32.2 | 38.5 | 63.0 | 65.2 | 43.0 | 48.3 |
| Leif | 40.9 | 33.3 | 36.9 | 64.4 | 61.1 | 41.6 | 46.4 |
| Len | 52.9 | 32.2 | 35.8 | 63.6 | 65.7 | 40.8 | 48.5 |
| ND 597 | 38.2 | 24.4 | 29.2 | 57.0 | 52.8 | 29.6 | 37.4 |
| Norak | 52.4 | 30.8 | 39.1 | 68.3 | 69.9 | 44.4 | 50.8 |
| Norseman | 45.5 | 33.6 | 42.1 | 70.4 | 68.8 | 43.8 | 50.7 |
| Stoa | 51.6 | 29.7 | 36.0 | 63.9 | 58.6 | 34.6 | 45.7 |
| Success | 47.0 | 31.9 | 39.1 | 70.7 | 73.2 | 40.8 | 50.5 |
| Wheaton | 45.4 | 32.8 | 39.6 | 69.6 | 71.8 | 41.3 | 50.1 |
| | | | | | | | |
| LSD 5% | 6.9 | 3.6 | 4.8 | 3.9 | 4.6 | 3.7 | |
| CV % | 13.2 | 11.6 | 13.0 | 6.1 | 7.3 | 9.2 | |
| | | | | | | | |
| Seeding date | 4-22 | 5-1 | 4-29 | 4-30 | 4-26 | 4-19 | |
| Harvest date | 8-15 | 8-14 | 8-15 | 8-19 | 8-20 | 8-9 | |

Seeding Rate: (approx. 1 bu./acre); Yield Goal: 45 bu./acre; Fertilizer Applied: Based on soil tests at each site.;
Herbicide Applied: Hoelon - Buctril tank mix.

Table 4. 1985 Hettinger and Off-Station Hard Red Spring Wheat Variety Trials.

| Variety | Bushels per Acre | | | | | | |
|----------|------------------|--------|---------|-------------|----------|-----------------|------------------|
| | Hettinger | Regent | Flasher | Thunderhawk | Scranton | Average 5 sites | Average 11 sites |
| Leo 747 | 30.0 | 33.8 | 45.3 | 47.0 | 52.3 | 41.7 | 46.3 |
| Alex | 25.8 | 31.5 | 40.6 | 43.4 | 66.9 | 41.6 | 42.5 |
| Apex 83 | 27.8 | 31.6 | 37.4 | 44.2 | 56.7 | 39.5 | 44.3 |
| Buckshot | 29.5 | 32.3 | 32.8 | 43.0 | 54.5 | 38.4 | 41.9 |
| Butte | 28.2 | 29.2 | 34.2 | 40.3 | 55.2 | 37.4 | 38.2 |
| Coteau | 24.1 | 28.1 | 30.8 | 36.7 | 47.4 | 33.4 | 38.1 |
| Guard | 24.8 | 30.0 | 38.6 | 43.7 | 57.7 | 39.0 | 44.0 |
| Leif | 25.7 | 31.9 | 37.8 | 43.8 | 66.8 | 41.2 | 44.0 |
| Len | 21.6 | | | | | | 44.7* |
| ND 597 | 24.0 | 29.4 | 33.6 | 39.3 | 65.1 | 38.3 | 38.4 |
| Norak | 34.6 | 35.1 | 34.1 | 45.7 | 65.4 | 43.0 | 47.3 |
| Norseman | 25.6 | 29.7 | 27.8 | 41.0 | 61.5 | 37.1 | 44.5 |

| | | | | | | | |
|---------------------|----------|----------|----------|----------|----------|------|------|
| Stoa | 26.9 | 31.6 | 33.6 | 43.0 | 49.9 | 37.0 | 41.8 |
| Success | 25.7 | 29.9 | 38.7 | 45.6 | 52.0 | 38.4 | 45.0 |
| Wheaton | 28.1 | 32.3 | 33.2 | 44.5 | 56.4 | 38.9 | 45.0 |
| Lew | 23.1 | 28.1 | 33.2 | 39.8 | 46.3 | 34.1 | |
| Marshall | 26.8 | 30.0 | 27.3 | 42.1 | 57.6 | 36.8 | |
| LSD @ 5% | 5.2 | NS | 3.9 | 4.6 | 10.1 | 6.4 | 5.5 |
| CV % | 14.3 | 9.9 | 7.9 | 7.5 | 12.4 | | |
| Seeding Date | April 17 | April 18 | April 19 | April 19 | April 18 | | |
| Harvest Date | Aug. 7 | Aug. 5 | Aug. 6 | Aug. 5 | Aug. 19 | | |
| *Average of 7 sites | | | | | | | |

| Table 5. 1985 Dickinson Off-Station Hard Red Spring Wheat Variety Trials | | | | | | | |
|---|----------------------|-------|--------|------------|----------|---------|----------------|
| Variety | Test Weight lbs./bu. | | | | | | |
| | Dickinson | Beach | Beulah | Glen Ullin | Hannover | Manning | Average 6-site |
| Leo 747 | 59.5 | 58.5 | 60.5 | 59.5 | 58.5 | 59.0 | 59.3 |
| Alex | 61.5 | 58.0 | 61.0 | 59.0 | 60.0 | 61.5 | 60.2 |
| Apex 83 | 60.5 | 58.0 | 61.0 | 60.0 | 59.5 | 61.5 | 60.1 |
| Buckshot | 59.0 | 56.0 | 61.0 | 57.5 | 57.5 | 61.0 | 58.7 |

| | | | | | | | |
|--------------|------|------|------|------|------|------|------|
| Butte | 61.0 | 59.0 | 61.5 | 60.0 | 60.5 | 61.0 | 60.1 |
| Coteau | 57.5 | 55.0 | 58.5 | 58.5 | 58.5 | 56.5 | 57.4 |
| Guard | 59.5 | 55.0 | 60.0 | 60.0 | 60.0 | 59.5 | 59.0 |
| Leif | 60.0 | 58.0 | 62.0 | 60.5 | 60.0 | 62.5 | 60.1 |
| Len | 60.0 | 58.0 | 60.0 | 58.5 | 59.5 | 60.0 | 59.3 |
| ND 597 | 60.5 | 57.0 | 60.0 | 60.0 | 59.5 | 59.0 | 59.3 |
| Norak | 61.0 | 57.0 | 61.0 | 60.5 | 61.0 | 61.5 | 60.3 |
| Norseman | 59.5 | 56.0 | 59.5 | 58.0 | 58.5 | 57.5 | 58.2 |
| Stoa | 59.5 | 58.0 | 61.0 | 59.5 | 59.5 | 58.0 | 59.3 |
| Success | 59.5 | 56.0 | 60.0 | 58.5 | 59.0 | 56.5 | 58.3 |
| Wheaton | 59.0 | 55.0 | 58.0 | 58.5 | 59.0 | 57.0 | 57.8 |
| | | | | | | | |
| Seeding Date | 4-22 | 5-1 | 4-29 | 4-30 | 4-26 | 4-19 | |
| Harvest Date | 8-15 | 8-14 | 8-15 | 8-19 | 8-20 | 8-9 | |

| Table 6. 1985 Hettinger and Off-Station Hard Red Spring Wheat Variety Trials. | | | | | | | | |
|---|----------------------|--------|---------|-------------|---------|--|-----------|-----------|
| Variety | Test Weight lbs./bu. | | | | | | Average 5 | Average 5 |
| | Hettinger | Regent | Flecker | Thunderhawk | Scepter | | | |
| | | | | | | | | |

| | Nettinger | Regent | Flasher | Thunderhawk | Scorpion | Sites | Sites |
|---------------------|-----------|--------|---------|-------------|----------|-------|-------|
| Leo 747 | 53.4 | 55.9 | 56.9 | 58.6 | 59.0 | 56.8 | 58.1 |
| Alex | 55.9 | 56.9 | 59.5 | 61.7 | 60.4 | 58.9 | 59.6 |
| Apex 83 | 54.0 | 57.3 | 59.5 | 60.3 | 60.7 | 58.4 | 59.3 |
| Buckshot | 53.8 | 54.5 | 58.0 | 59.3 | 58.0 | 56.7 | 57.8 |
| Butte | 55.3 | 57.1 | 59.4 | 61.0 | 59.8 | 58.5 | 59.6 |
| Coteau | 54.2 | 53.9 | 57.6 | 59.3 | 58.2 | 56.6 | 57.1 |
| Guard | 51.7 | 55.3 | 58.7 | 60.0 | 59.9 | 57.1 | 58.1 |
| Leif | 53.9 | 55.9 | 59.4 | 61.3 | 61.3 | 58.4 | 59.5 |
| Len | 54.4 | | | | | | 58.6* |
| ND 597 | 53.3 | 56.4 | 58.9 | 60.4 | 60.4 | 57.9 | 58.7 |
| Norak | 54.1 | 56.2 | 59.8 | 60.7 | 60.5 | 58.3 | 59.4 |
| Norseman | 53.9 | 53.0 | 57.9 | 59.1 | 58.6 | 56.5 | 57.4 |
| Stoa | 53.8 | 55.2 | 58.8 | 60.3 | 59.1 | 57.4 | 58.4 |
| Success | 54.3 | 55.3 | 57.3 | 59.4 | 57.4 | 56.7 | 57.6 |
| Wheaton | 51.8 | 54.3 | 55.7 | 58.7 | 68.4 | 55.8 | 56.9 |
| Lew | 54.5 | 55.7 | 60.6 | 61.3 | 60.2 | 58.5 | |
| Marshall | 53.4 | 54.5 | 57.4 | 59.5 | 58.3 | 56.6 | |
| *Average of 7 sites | | | | | | | |

Table 7. 1985 Hard Red Spring Wheat Variety Trials

| Variety | Protein Percent @ 14% Moisture | | | | | | |
|----------|--------------------------------|-------|--------|------------|----------|---------|-----------------|
| | Dickinson | Beach | Beulah | Glen Ullin | Hannover | Manning | Average 6-Sites |
| Leo 747 | 14.1 | 15.3 | 12.9 | 14.3 | 12.7 | 13.6 | 13.8 |
| Alex | 14.6 | 15.8 | 12.2 | 13.3 | 11.3 | 12.8 | 13.3 |
| Apex 83 | 13.6 | 14.0 | 11.6 | 13.0 | 11.0 | 11.8 | 12.5 |
| Buckshot | 14.5 | 16.0 | 11.9 | 12.8 | 11.5 | 11.6 | 13.1 |
| Butte | 13.6 | 14.2 | 12.6 | 13.8 | 10.6 | 12.5 | 13.2 |
| Coteau | 15.7 | 16.9 | 14.3 | 14.8 | 13.1 | 15.0 | 15.0 |
| Guard | 13.8 | 15.5 | 12.5 | 13.1 | 11.2 | 12.8 | 13.2 |
| Leif | 14.0 | 15.2 | 11.5 | 13.0 | 11.0 | 11.6 | 12.7 |
| Len | 14.3 | 16.1 | 13.3 | 13.9 | 11.8 | 12.5 | 13.7 |
| ND 597 | 15.1 | 14.7 | 13.0 | 13.9 | 11.9 | 13.5 | 13.7 |
| Norak | 13.7 | 15.6 | 12.0 | 12.9 | 11.1 | 12.1 | 12.9 |
| Norseman | 14.6 | 16.1 | 13.2 | 13.8 | 12.1 | 13.1 | 13.8 |
| Stoa | 13.9 | 14.2 | 12.1 | 13.3 | 11.7 | 13.9 | 13.2 |
| Success | 14.4 | 15.3 | 12.1 | 12.8 | 11.2 | 13.4 | 13.2 |

| | | | | | | | |
|---------|------|------|------|------|------|------|------|
| Wheaton | 13.6 | 15.0 | 12.0 | 12.6 | 11.1 | 12.9 | 12.9 |
|---------|------|------|------|------|------|------|------|

| Table 8. 1985 Hettinger Off-Station Hard Red Spring Wheat Variety Trials | | | | | | | |
|---|--------------------------------|--------|---------|-------------|----------|-----------------|------------------|
| Variety | Protein Percent @ 14% Moisture | | | | | | |
| | Hettinger | Regent | Flasher | Thunderhawk | Scranton | Average 5-Sites | Average 11-Sites |
| Leo 747 | 17.9 | 17.9 | 16.4 | 14.2 | 13.8 | 16.0 | 14.8 |
| Alex | 19.5 | 18.3 | 16.1 | 13.3 | 14.0 | 16.2 | 14.6 |
| Apex 83 | 16.9 | 17.0 | 14.9 | 13.8 | 13.4 | 15.2 | 13.7 |
| Buckshot | 18.6 | 17.2 | 16.2 | 13.7 | 13.2 | 15.8 | 14.3 |
| Butte | 17.7 | 15.8 | 15.8 | 14.1 | 14.3 | 15.5 | 14.1 |
| Coteau | 19.1 | 18.4 | 17.6 | 15.5 | 16.0 | 17.3 | 16.1 |
| Guard | 17.9 | 17.6 | 15.6 | 13.3 | 14.7 | 15.8 | 14.4 |
| Leif | 19.1 | 16.7 | 15.2 | 13.5 | 13.7 | 15.6 | 14.0 |
| Len | 19.5 | 18.7 | 16.1* | 13.7* | 13.7 | 16.3 | 14.9 |
| ND 597 | 18.8 | 17.4 | 16.1 | 13.7 | 14.3 | 16.1 | 14.8 |
| Norak | 18.0 | 15.8 | 15.3 | 12.9 | 13.4 | 15.1 | 13.9 |
| Norseman | 18.6 | 17.9 | 15.8 | 14.0 | 13.1 | 15.9 | 14.7 |
| Stoa | 19.6 | 17.9 | 15.9 | 13.9 | 14.6 | 16.4 | 14.7 |

| | | | | | | | |
|--------------------|------|------|------|------|------|------|------|
| Success | 18.7 | 18.2 | 16.0 | 13.6 | 13.6 | 16.0 | 14.5 |
| Wheaton | 17.8 | 17.4 | 15.6 | 13.3 | 13.5 | 15.5 | 14.1 |
| Marshall | 19.4 | 17.8 | 15.3 | 13.5 | 14.2 | 16.0 | |
| *Calculated value. | | | | | | | |

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