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**Spring Wheat**  
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Table 12. Spring wheat variety performance results at Greencreek, 2005.

| Variety or Selection     | Seed Yield | Seed Protein | Hardness Score | Test Weight | Plant Height |
|--------------------------|------------|--------------|----------------|-------------|--------------|
|                          | bu/acre    | %            | 0-100          | lb/bu       | inches       |
| <b><u>Soft White</u></b> |            |              |                |             |              |
| Alturas                  | 43         | 12.7         | 6              | 54.2        | 37           |
| Eden                     | 45         | 13.0         | 11             | 55.5        | 38           |
| Louise                   | 47         | 12.8         | 4              | 52.8        | 41           |
| Nick                     | 59         | 13.2         | 6              | 53.3        | 37           |
| Penawawa                 | 39         | 13.5         | 3              | 52.4        | 35           |
| Zak                      | 40         | 14.4         | 2              | 52.4        | 38           |
| IDO 632                  | 61         | 12.0         | 5              | 57.5        | 32           |
| IDO 642                  | 50         | 12.8         | 0              | 53.5        | 38           |
| <b>Average</b>           | 48         | 13.1         | 5              | 54.0        | 37           |
| <b><u>Hard White</u></b> |            |              |                |             |              |
| IDO 377s                 | 45         | 15.4         | 59             | 52.2        | 38           |
| Lolo                     | 47         | 14.8         | 63             | 53.5        | 38           |
| Otis                     | 45         | 14.6         | 64             | 54.6        | 43           |
| Lochsa                   | 55         | 14.8         | 66             | 50.0        | 37           |
| <b>Average</b>           | 48         | 14.9         | 63             | 52.6        | 39           |
| <b><u>Hard Red</u></b>   |            |              |                |             |              |
| Buck Pronto              | 53         | 15.4         | 74             | 53.2        | 37           |
| Hank                     | 58         | 15.0         | 62             | 51.1        | 36           |
| Hollis                   | 44         | 15.9         | 55             | 51.5        | 51           |
| Jefferson                | 50         | 15.4         | 66             | 52.8        | 38           |
| Jerome                   | 55         | 14.7         | 55             | 50.6        | 36           |
| Tara 2002                | 54         | 14.7         | 53             | 52.8        | 38           |
| IDO 578                  | 55         | 14.8         | 50             | 52.9        | 35           |
| Westbred 926             | 54         | 14.9         | 63             | 52.1        | 36           |
| <b>Average</b>           | 53         | 15.1         | 60             | 52.1        | 38           |
| Overall Average          | 50         | 14.2         | 38             | 52.9        | 38           |
| LSD (0.10)               | 2          | --           | --             | 1.0         | 1            |
| CV (%)                   | 4          | --           | --             | 1.5         | 2            |

Table 13. Spring wheat variety performance results at Genesee direct seeded, 2005.

| Variety or Selection     | Seed Yield | Seed Protein | Hardness Score | Test Weight | Plant Height | Lodging |
|--------------------------|------------|--------------|----------------|-------------|--------------|---------|
|                          | bu/acre    | %            | 0-100          | lb/bu       | inches       | %       |
| <b><u>Soft White</u></b> |            |              |                |             |              |         |
| Alturas                  | 34         | 11.0         | 1              | 58.3        | 31           | 15      |
| Eden                     | 19         | 10.6         | 14             | 57.8        | 30           | 13      |
| Louise                   | 51         | 10.6         | 4              | 57.9        | 39           | 3       |
| Nick                     | 52         | 10.1         | 5              | 58.9        | 36           | 0       |
| Penawawa                 | 15         | 11.8         | 3              | 54.5        | 28           | 2       |
| Zak                      | 33         | 10.9         | 4              | 55.8        | 34           | 1       |
| IDO 632                  | 32         | 9.5          | 3              | 57.7        | 28           | 0       |
| IDO 642                  | 59         | 11.0         | 1              | 59.0        | 35           | 0       |
| <b>Average</b>           | 37         | 10.7         | 4              | 57.5        | 33           | 4       |
| <b><u>Hard White</u></b> |            |              |                |             |              |         |
| IDO 377s                 | 21         | 13.2         | 58             | 57.7        | 34           | 8       |
| Lolo                     | 34         | 11.7         | 62             | 59.6        | 33           | 12      |
| Otis                     | 38         | 12.2         | 55             | 59.2        | 40           | 0       |
| Lochsa                   | 50         | 11.8         | 66             | 56.6        | 35           | 0       |
| <b>Average</b>           | 36         | 12.2         | 60             | 58.3        | 36           | 5       |
| <b><u>Hard Red</u></b>   |            |              |                |             |              |         |
| Buck Pronto              | 51         | 12.8         | 60             | 59.9        | 34           | 1       |
| Hank                     | 57         | 12.1         | 55             | 58.2        | 34           | 1       |
| Hollis                   | 47         | 13.4         | 54             | 58.1        | 47           | 1       |
| Jefferson                | 49         | 12.4         | 65             | 58.7        | 36           | 0       |
| Jerome                   | 55         | 12.0         | 56             | 57.9        | 34           | 1       |
| Tara 2002                | 49         | 12.4         | 55             | 59.1        | 38           | 1       |
| IDO 578                  | 41         | 12.5         | 51             | 58.7        | 31           | 19      |
| Westbred 926             | 52         | 12.6         | 60             | 58.2        | 36           | 0       |
| <b>Average</b>           | 50         | 12.5         | 57             | 58.6        | 36           | 3       |
| Overall Average          | 42         | 11.7         | 36             | 58.1        | 35           | 4       |
| LSD (0.10)               | 4          | --           | --             | 0.8         | 1            | 5       |
| CV (%)                   | 8          | --           | --             | 1.2         | 2            | 99      |

Table 14. Spring wheat variety performance results at Bonners Ferry, 2005.

| Variety or Selection     | Seed Yield | Seed Protein | Hardness Score | Test Weight | Plant Height | Lodging |
|--------------------------|------------|--------------|----------------|-------------|--------------|---------|
|                          | bu/acre    | %            | 0-100          | lb/bu       | inches       | %       |
| <b><u>Soft White</u></b> |            |              |                |             |              |         |
| Alturas                  | 69         | 10.4         | 4              | 58.4        | 35           | 4       |
| Eden                     | 57         | 10.1         | 10             | 58.4        | 33           | 0       |
| Louise                   | 62         | 9.9          | 9              | 58.3        | 34           | 39      |
| Nick                     | 56         | 11.0         | 3              | 60.4        | 30           | 12      |
| Penawawa                 | 45         | 11.0         | 1              | 56.1        | 30           | 0       |
| Zak                      | 47         | 10.3         | 3              | 56.6        | 30           | 37      |
| IDO 632                  | 54         | 10.6         | 8              | 59.5        | 27           | 10      |
| IDO 642                  | 59         | 11.4         | 2              | 58.3        | 30           | 3       |
| <b>Average</b>           | 56         | 10.6         | 5              | 58.3        | 31           | 13      |
| <b><u>Hard White</u></b> |            |              |                |             |              |         |
| IDO 377s                 | 60         | 12.7         | 55             | 58.6        | 30           | 32      |
| Lolo                     | 67         | 11.8         | 62             | 59.9        | 32           | 27      |
| Otis                     | 72         | 12.0         | 62             | 60.9        | 35           | 14      |
| Lochsa                   | 66         | 12.2         | 66             | 58.1        | 32           | 13      |
| <b>Average</b>           | 66         | 12.2         | 61             | 59.4        | 32           | 22      |
| <b><u>Hard Red</u></b>   |            |              |                |             |              |         |
| Buck Pronto              | 52         | 14.5         | 64             | 60.2        | 31           | 21      |
| Hank                     | 58         | 12.6         | 58             | 58.1        | 29           | 25      |
| Hollis                   | 53         | 12.8         | 62             | 59.9        | 35           | 23      |
| Jefferson                | 68         | 11.7         | 72             | 60.6        | 30           | 33      |
| Jerome                   | 73         | 12.2         | 59             | 59.8        | 30           | 10      |
| Tara 2002                | 56         | 12.8         | 63             | 60.2        | 32           | 34      |
| IDO 578                  | 54         | 12.5         | 60             | 59.6        | 30           | 29      |
| Westbred 926             | 55         | 12.9         | 59             | 59.1        | 30           | 19      |
| <b>Average</b>           | 59         | 12.8         | 62             | 59.7        | 31           | 24      |
| Overall Average          | 59         | 11.7         | 38             | 59.0        | 31           | 19      |
| LSD (0.10)               | 5          | --           | --             | 0.5         | 3            | 8       |
| CV (%)                   | 8          | --           | --             | 0.8         | 7            | 34      |

Table 15. Combined spring wheat performance data for Greencreek, Genesee and Bonners Ferry, 2005.

| Variety or Selection     | Seed Yield        |         |         |         | -----Average of 3 sites----- |                |             |              |          |
|--------------------------|-------------------|---------|---------|---------|------------------------------|----------------|-------------|--------------|----------|
|                          | Greencrk.         | Genesee | B.Ferry | Average | Seed Protein                 | Hardness Score | Test Weight | Plant Height | Lodging* |
|                          | -----bu/acre----- |         |         |         | %                            | 0-100          | lb/bu       | inches       | %        |
| <b><u>Soft White</u></b> |                   |         |         |         |                              |                |             |              |          |
| Alturas                  | 43                | 34      | 69      | 49      | 11.4                         | 3.5            | 57.0        | 34           | 10       |
| Eden                     | 45                | 19      | 57      | 40      | 11.2                         | 11.6           | 57.2        | 34           | 7        |
| Louise                   | 47                | 51      | 62      | 53      | 11.1                         | 5.7            | 56.3        | 38           | 21       |
| Nick                     | 59                | 52      | 56      | 56      | 11.4                         | 4.7            | 57.5        | 34           | 6        |
| Penawawa                 | 39                | 15      | 45      | 33      | 12.1                         | 2.4            | 54.3        | 31           | 1        |
| Zak                      | 40                | 33      | 47      | 40      | 11.9                         | 2.9            | 54.9        | 34           | 19       |
| IDO 632                  | 61                | 32      | 54      | 49      | 10.7                         | 5.3            | 58.2        | 29           | 5        |
| IDO 642                  | 50                | 59      | 59      | 56      | 11.7                         | 1.0            | 56.9        | 34           | 2        |
| <b>Average</b>           | 48                | 37      | 56      | 47      | 11.4                         | 4.6            | 56.6        | 34           | 9        |
| <b><u>Hard White</u></b> |                   |         |         |         |                              |                |             |              |          |
| IDO 377s                 | 45                | 21      | 60      | 42      | 13.8                         | 57.4           | 56.2        | 34           | 20       |
| Lolo                     | 47                | 34      | 67      | 49      | 12.8                         | 62.5           | 57.7        | 34           | 20       |
| Otis                     | 45                | 38      | 72      | 52      | 12.9                         | 60.2           | 58.2        | 39           | 7        |
| Lochsa                   | 55                | 50      | 66      | 57      | 12.9                         | 65.7           | 54.9        | 35           | 7        |
| <b>Average</b>           | 48                | 36      | 66      | 50      | 13.1                         | 61.5           | 56.7        | 36           | 13       |
| <b><u>Hard Red</u></b>   |                   |         |         |         |                              |                |             |              |          |
| Buck Pronto              | 53                | 51      | 52      | 52      | 14.2                         | 65.9           | 57.8        | 34           | 11       |
| Hank                     | 58                | 57      | 58      | 58      | 13.2                         | 58.1           | 55.8        | 33           | 13       |
| Hollis                   | 44                | 47      | 53      | 48      | 14.0                         | 56.7           | 56.5        | 44           | 12       |
| Jefferson                | 50                | 49      | 68      | 56      | 13.2                         | 67.8           | 57.4        | 35           | 17       |
| Jerome                   | 55                | 55      | 73      | 61      | 13.0                         | 56.8           | 56.1        | 33           | 6        |
| Tara 2002                | 54                | 49      | 56      | 53      | 13.3                         | 56.9           | 57.4        | 36           | 18       |
| IDO 578                  | 55                | 41      | 54      | 50      | 13.3                         | 53.7           | 57.1        | 32           | 24       |
| Westbred 926             | 54                | 52      | 55      | 54      | 13.5                         | 60.5           | 56.5        | 34           | 10       |
| <b>Average</b>           | 53                | 50      | 59      | 54      | 13.5                         | 59.5           | 56.8        | 35           | 14       |
| Overall Average          | 50                | 42      | 59      | 50      | 12.6                         | 37.5           | 56.7        | 35           | 12       |
| LSD (0.10)               | 2                 | 4       | 5       | 2       | --                           | --             | 0.8         | 2            | 7        |
| CV (%)                   | 4                 | 8       | 8       | --      | --                           | --             | --          | --           | --       |

\* Lodging data are average of Genesee and Bonners Ferry

Table 16. Grain yield averages for spring wheat varieties tested for three years in northern Idaho.

| Variety or Selection     | 2003              | 2004 | 2005 | Average |
|--------------------------|-------------------|------|------|---------|
|                          | -----bu/acre----- |      |      |         |
| <b><u>Soft White</u></b> |                   |      |      |         |
| Alturas                  | 36                | 85   | 49   | 57      |
| Eden                     | 37                | 70   | 40   | 49      |
| Louise                   | 41                | 86   | 53   | 60      |
| Nick                     | 41                | 89   | 56   | 62      |
| Penawawa                 | 33                | 59   | 33   | 42      |
| Zak                      | 40                | 61   | 40   | 47      |
| <b>Average</b>           | 38                | 75   | 45   | 53      |
| <b><u>Hard White</u></b> |                   |      |      |         |
| IDO 377s                 | 41                | 83   | 42   | 55      |
| Lolo                     | 37                | 82   | 49   | 56      |
| Otis                     | 42                | 83   | 52   | 59      |
| <b>Average</b>           | 40                | 83   | 48   | 57      |
| <b><u>Hard Red</u></b>   |                   |      |      |         |
| Hank                     | 36                | 85   | 58   | 60      |
| Hollis                   | 34                | 75   | 48   | 52      |
| Jefferson                | 37                | 81   | 56   | 58      |
| Jerome                   | 33                | 81   | 61   | 58      |
| Tara 2002                | 37                | 82   | 53   | 57      |
| Westbred 926             | 37                | 79   | 54   | 57      |
| <b>Average</b>           | 36                | 81   | 55   | 57      |
| Overall Average          | 37                | 79   | 50   | 55      |
| LSD (0.10)               | 3                 | 4    | 2    | --      |