TITLE:

Spring Wheat

PROJECT:

Small Grains Investigation MS 756

YEAR:

1975

PERSONNEL:

Leader - Vern R. Stewart

Research Technician - Nancy Campbell Cooperators - F. H. McNeal and M. A. Berg

Cooperating Agencies - Montana Agricultural Experiment Station

Field Crops Branch, ARS, USDA

Montana Wheat Research & Marketing Committee

OBJECTIVES:

- To determine the adaptability of new introduced spring wheat varieties and selections by comparisons with recommended varieties.
- Study the semi-dwarf strains of spring wheat for use under irrigated conditions.
- To aid in basic genetic research in spring wheat and the overall breeding program.

1975 EXPERIMENTS:

- Advanced Yield Nursery (dryland)
- 2. Western Regional Spring Wheat Nursery (dryland)
- 3. Private Variety Nursery (dryland)
- 4. Flag Leaf Nursery (dryland)

1975 RESULTS BY NURSERY:

Advanced Yield Nursery - The mean yield for the nursery was 78.45 bu/a, which is less than the 1974 mean of 89.44 bu/a. Six entries had yields significantly greater than the check, Norana. No entries had yields significantly less than Norana. Test weights were low this year, some germination had occurred prior to harvesting. MT 749, the highest yielder, and MT 7340 had the highest test weights of 60.0 lbs/bu. Many entries had heading dates significantly earlier than Norana. Lodging was fairly severe this year with a mean lodging severity of 6.02 compared with 3.07 last year. Rainy weather prior to harvest accentuated these conditions. No entries were significantly greater than Norana, but four had lodging severity's significantly less than Norana. Leaf and stripe rust readings tend to be lower this year than last. Table 1.

In the ten year summary only one variety, MT 741, has yielded less than the check, Thatcher. All the other varieties have outyielded Thatcher. Table 2.

Western Regional Spring Wheat Nursery - Yields tend to be lower this year than last year. Twenty varieties had yields significantly less than the check, Fielder. No varieties were significantly greater than Fielder. There were 16 soft white, 1 hard white and 11 hard red varieties. In comparing the red and white varieties, it was found that the reds average yield was higher than the white; 81.75 bu/a and 73.45 bu/a respectively. Test weights for all varieties were low, some germination had occurred prior to harvest. The mean test weight was 53.62. Lodging severity readings were more critical this year. The lodging severity mean last year was 4.33 compared to 6.91 this year. The rainy conditions before harvest helped increase the amount of lodging. Five entries had lodging severities significantly less than Fielder. Table 3.

In the summary of yields over several years Fielder was used as a check. No variety had a higher yield average than Fielder. Table 4.

Spring Wheat (con't)

Private Variety Nursery - This nursery contains lines and varieties developed by commercial companies which were compared to several established varieties used as checks. Norana was used as a check for statistical purposes. Only one variety, MT 41 a private entry, was significantly greater in yield than Norana. Test weights were low in all entries with Profit 75 having the highest at 58.80 lbs/bu. There was some germination prior to harvest. Table 5.

 $\frac{\text{Flag Leaf Nursery}}{\text{as pertains to its significance}} \text{-} \text{This nursery will be included in the Wheat Report as pertains to its significance}. Dr. F. H. McNeal will write this report. Table 6 shows agronomic data collected for this study.}$

SPRING WHEAT VARIETIES

SPRING WHEAT VARIETIES RECOMMENDED FOR WESTERN MONTANA

Hard Red Varieties

- 1. Norana non irrigated and irrigated
- Shortana non irrigated and irrigated
- Thatcher dryland
- 4. Fortuna dryland

Soft White Varieties

- Twin non irrigated and irrigated
- 2. Fielder irrigated and non irrigated

CHARACTERISTICS OF RECOMMENDED VARIETIES

1. Norana

- a. Bearded variety, developed in Montana
- b. Very high yielding ability
- c. Semi-dwarf type
- d. Maturity mid season to late
- e. Good test weight
- f. Excellent straw strength
- g. Good shattering resistance
- h. Resistant to stem rust
- i. Resistant to lose smut
- j. Resistant to moderately resistant to stripe rust
- k. Good milling and baking quality

2. Shortana

- a. Bearded variety developed in Montana
- b. High yielding variety
- c. Semi-dwarf type
- d. Maturity mid season to late
- e. Low test weight
- f. Excellent straw strength
- g. Good shattering resistance
- h. Moderately resistant to stem rust
- i. Susceptible to leaf rust
- j. Resistant to stem rust
- k. Moderately resistant to stripe rust
- 1. Acceptable milling and baking quality

Thatcher

- a. Beardless variety developed in U.S.A.
- b. Fair yielding ability
- c. Medium height
- d. Early maturity
- e. Good test weight
- f. Fair to good lodging resistance
- g. Good shattering resistance
- h. Susceptible to leaf rust
- i. Resistant to stripe rust
- j. Good milling and baking quality

Recommended Varieties (con't)

4. Fortuna

- a. Beardless variety developed in North Dakota
- b. Good yielding ability
- c. Medium to tall height
- d. Medium maturity
- e. High test weight
- f. Poor to fair lodging resistance
- g. Somewhat susceptible to shattering
- h. Resistant to most common races of stem rust
- i. Resistant to most common races of leaf rust
- j. Fair to good milling and baking quality

Soft White Varieties

1. Twin (to be removed in 1977)

- a. Beardless variety developed in Idaho
- b. Very high yielding ability
- c. Semi-dwarf type
- d. Medium to late maturity
- e. Low test weight
- f. Excellent straw strength
- g. Good shattering resistance
- h. Resistant to stripe rust
- i. Resistant to stem rust
- j. Susceptible to leaf rust
- k. Susceptible to powdery mildew
- 1. Pastry quality is satisfactory

2. Fielder

- a. Bearded variety developed in Idaho
- b. Very high yielding ability
- c. Semi-dwarf type
- d. Medium to late maturity
- e. Fair test weight
- f. Good straw strength
- g. Good shattering resistance
- h. Moderately resistant to stripe rust
- i. Slight resistance to leaf rust

VARIETY TO BE CONSIDERED FOR RECOMMENDATION

Hard Red Spring

1. Borah

- a. Bearded
- b. Very high yielding ability
- c. Semi-dwarf type
- d. Medium maturity
- e. Low to fair test weight
- f. Resistant to shattering
- g. Resistant to stripe rust
- h. Susceptible to leaf rust
- i. Stem rust resistant

Table 3 . Agronomic data from the Western Regional Spring Wheat nursery grown at Kalispell, Montana in 1975. Field No. Y-5. Random block design, four replications.

Date seeded: May 9, 1975 Date harvested: September 15, 1975 Size of plot: 16 sq. ft.

C.I. or State No Variety Bu/A Lbs/Bu Date Inches Prev. Sev. Rust Mildew WA 6019 NS 3880_227/13438//13735 95.63 56.30 192.75b 38.50a 62.50 6.00b 11.25 3.50a CI 17268 Fielder 95.51 56.70 193.50 35.00 77.50 7.25 1.25 1.75 CI 17267 Borah 94.36 57.00 190.00b 30.50b 66.25 6.00b 2.50 1.50 UT498165 UT256-7-21-4/Pilot 89.48 53.70 193.25 30.25b 75.00 6.50 6.25 1.50 ID 47 Sonora 64/Winalta 89.18 55.60 192.00b 33.50 82.50 7.25 2.50 5.00a MT 7156 SI/3/NRN10/BVR14//5*CNT 89.03 58.50 193.00 33.50 52.50b 6.50 .00 1.00 WA 6101 LRN 10/BVR11//P14/3/101 86.28 53.80 198.00a 36.25 77.50 7.50 .00 6.25a WA 6100 LRN 10/BVR11//P14/3/101 83.25b 53.40 198.00a 34.50 55.00b 6.75 .00 5.50a	Type .50b 4.00 .00b .00b 1.50b 1.50b .00b .00b .00b	Prev. 1.25 5.00 .00 .00 2.50 3.75 .00 .00
CI 17268 Fielder 95.51 56.70 193.50 35.00 77.50 7.25 1.25 1.75 CI 17267 Borah 94.36 57.00 190.00b 30.50b 66.25 6.00b 2.50 1.50 UT498165 UT256-7-21-4/Pilot 89.48 53.70 193.25 30.25b 75.00 6.50 6.25 1.50 ID 47 Sonora 64/Winalta 89.18 55.60 192.00b 33.50 82.50 7.25 2.50 5.00a MT 7156 SI/3/NRN10/BVR14//5*CNT 89.03 58.50 193.00 33.50 52.50b 6.50 .00 1.00 WA 6101 LRN 10/BVR11//P14/3/101 86.28 53.80 198.00a 36.25 77.50 7.50 .00 6.25a WA 6105 HRY/KRN//AO/HRPC/3/13730 83.60 54.00 192.00b 37.75a 82.50 6.25 1.25 1.50 WA 6100 LRN 10/BVR11//P14/3/101 83.25b 53.40 198.00a 34.50 55.00b 6.75 .00 5.50a	4.00 .00b .00b 1.50b 1.50b .00b	5.00 .00 .00 2.50 3.75
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	0000	.00
ID725073 N10/ST//ID/3/ID59/4/LM66 81.70b 54.90 192.50b 37.00 85.00 6.75 11.25 2.75	.75b	6.25
WA 6018 NS 3880-227/13438//13735 81.38b 56.80 193.75 36.25 36.25b 5.75b 5.00 3.75a	.00b	.00
ID 106 Twin/Triple Dirk 81.23b 52.40 193.00 34.50 80.00 7.50 1.25 1.00	.00b	.00
UT498327 UT256-7-21-4/Pilot 78.73b 54.00 190.75b 30.25b 57.50b 6.00b 6.25 4.25a	4.00	36.25a
ID 87 Aberdeen 6535-114-5-5-1 78.60b 56.20 195.75a 37.25a 88.75 8.00 1.25 1.75	.00b	.00
ID 107 TZPP/3*AN//B61-136 78.18b 56.70 192.50b 35.75 85.00 6.25 .00 1.00	.50b	1.25
ID725078 Idaed 59/4*Lemhi 62 76.78b 53.20 194.00 42.75a 86.25 7.00 11.25 1.50	.75b	6.25
WA 6158 HRY/KRN//AO/HRPC/3/13730 75.60b 54.90 193.75 39.25a 67.50 6.00b 1.25 1.50	.75b	1.25
ID725071 NRN10/ST//IDD/3/IDD59 74.15b 58.30 191.25b 40.50a 71.25 6.50 7.50 2.75	1.50b	5.00
ID 94 Aberdeen 6535-114-5-4-2 73.67b 54.60 195.75a 37.50a 93.50 8.00 1.25 4.25a	.00b	.00
ID725075 Idaed 59/4*Lemhi 62 71.95b 52.40 193.75 42.00a 88.75 6.75 11.25 1.25	.50b	1.25
ID725076 Idaed 59/4*Lemhi 62 71.67b 51.20 194.75a 41.50a 82.50 7.25 11.25 1.25	.50b	1.25
UT498222 UT256-7-21-4/Filot 71.62b 52.50 192.00b 31.75b 80.00 7.25 25.00a 5.75a	1.75b	3.75
UT498259 UT256-7-21-4/Pilot 68.10b 50.50 191.25b 29.50b 66.25 7.25 23.75a 5.00a	3.50	11.25
ID 105 Twin*3//227196/A63166S 64.52b 46.50 193.25 34.25 91.25 8.00 25.00a 1.00	.00b	.00
ID 104 SPF*3/3/ULKA/FR//LMK 66 64.27b 45.40 191.50b 32.00b 82.50 8.00 52.50a 2.25	.00b	.00
ID725077 Idaed 59/4*Lemhi 62 54.37b 54.60 194.50a 43.75a 87.50 7.25 13.75a 1.75	1.00b	2.50
WA 6157 N6600313/Twin 54.34b 47.00 196.00a 36.50 87.50 8.00 15.00a 7.25a	.50b	1.25
CI 4734 Federation 40.74b 50.40 195.25a 41.75a 67.50 6.00b 7.50 8.00a	4.75	13.75a
x ₁ / 76.71 53.62 193.49 36.21 75.57 6.91 9.15 3.05	1.01	3.71
27.031 29.03 3.76 3.91 6.59 24.90**	6.03**	
S.E.X 4.27 .00 .26 .74 7.05 .37 4.44 .42	.57	2.42
L.S.D.(.05) 12.01 .00 .74 2.09 19.83 1.03 12.49 1.18	1.59	6.81
C-V-9/ 5.57 00 44 0.00 0.00	56.04	65.36

Table 3 . (con't)

- Value for variety comparison
- Check variety
- Indicates statistical significance at the .05 level
- ** Indicates statistical significance at the .01 level
- \underline{a} / Values significantly greater than the check .05 \underline{b} / Values significantly less than the check .05

Table 4. Summary of the Western Regional Spring Wheat nursery grown at the Northwestern Agricultural Research Center, Kalispell, MT, 1971 thru 1975.

ID725071 NRN10/ST//IDD/3/IDD59 74.1 86.4 74.2 78.2 3 ID725075 Idaed 59/4*Lemhi 62 85.4 85.5 72.0 81.0 3 ID725077 Idaed 59/4*Lemhi 62 77.7 79.8 54.4 70.6 3 ID725078 Idaed 59/4*Lemhi 62 80.9 76.4 76.8 78.0 3 ID725076 Idaed 59/4*Lemhi 62 78.2 65.4 71.7 71.8 3 ID 94 Aberdeen 6535-114-5-4-2 111.9 73.7 92.8 2 ID 87 Aberdeen 6535-114-5-5-1 107.2 78.6 92.9 2 MT 7156 SI/3/NRN10/BVR14//5*CNT 88.6 89.0 88.8 2 UT498165 UT256-7-21-4/Pilot 89.5 89.5 1 WA 6101 LRN10/BVR11//P 14/3/101 86.3 86.3 1 WA 6105 HRY/KRN//AO/HRPC/3/13730 83.6 83.6 1 WA 6100 LRN10/BVR11//P14/3/101 83.3 83.3 1 ID 106 Twin/Triple Dirk 81.2 81.2 1 ID 107 TZPP/3*AN//B61-136 78.2 78.2 1 WA 6158 HRY/KRN//AO/HRPC/3/13730 75.6 75.6 1 UT498222 UT256-7-21-4/Pilot 71.6 71.6 1 ID 105 Twin*3//227196/A63166S 64.5 64.5 1 ID 104 SPF*3/3/ULKA/FR//LMK66	.I. or		4071	40.70	40.72	4074	4075		Sta	% Di -1 d- w
CI 17268 Fielder 106.0 93.4 94.8 108.8 95.5 99.7 5 CI 17267 Borah 89.2 88.3 93.1 89.5 94.4 90.9 5 ID 47 Sonora 64/Winalta 94.1 107.0 89.2 96.8 3 WA 6019 NS3880-227//3438/13735 92.6 104.4 95.6 97.5 3 UT498259 UT256-7-21-4/Pilot 88.4 100.7 68.1 85.7 3 UT498327 UT256-7-21-4/Pilot 89.6 96.2 78.7 88.2 3 ID725073 N10/ST//ID/3/ID59/4/Lm66 89.7 88.9 81.7 86.8 3 ID725074 NRN10/ST//IDD/3/IDD59 74.1 86.4 74.2 78.2 3 ID725075 Idaed 59/4*Lemhi 62 85.4 85.5 72.0 81.0 3 ID725076 Idaed 59/4*Lemhi 62 77.7 79.8 54.4 70.6 3 ID725076 Idaed 59/4*Lemhi 62 80.9 76.4 76.8 78.0 3 ID725076 Idaed 59/4*Lemhi 62 77.7 79.8 54.4 70.6 3 ID725076 Idaed 59/4*Lemhi 62 80.9 76.4 76.8 78.0 3 ID725076 Idaed 59/4*Lemhi 62 80.9 76.4 76.8 78.0 3 ID725076 Idaed 59/4*Lemhi 62 80.9 76.4 76.8 78.0 3 ID725076 Idaed 59/4*Lemhi 62 80.9 76.4 76.8 78.0 3 ID725076 Idaed 59/4*Lemhi 62 80.9 76.4 76.8 78.0 3 ID725076 Idaed 59/4*Lemhi 62 80.9 76.4 76.8 78.0 3 ID725076 Idaed 59/4*Lemhi 62 80.9 76.4 76.8 78.0 3 ID725076 Idaed 59/4*Lemhi 62 80.9 76.4 76.8 78.0 3 ID 94 Aberdeen 6535-114-5-4-2 111.9 73.7 92.8 2 ID 87 Aberdeen 6535-114-5-5-1 88.6 89.0 88.8 2 UT498165 UT256-7-21-4/Pilot 89.5 89.5 11 WA 6101 LRN10/BVR11//P14/3/101 86.3 86.3 1 WA 6105 HRY/KRN//AO/HRPC/3/13730 83.6 83.6 1 WA 6105 HRY/KRN//AO/HRPC/3/13730 83.6 83.6 1 WA 6105 HRY/KRN//AO/HRPC/3/13730 75.6 75.6 75.6 1 UT498222 UT256-7-21-4/Pilot 71.6 71.6 71.6 71.6 71.6 71.6 71.6 71.6	tate No	Variety	1971	1972	1973	1974	1975	Ave.	Yrs.	Fielder
CT 17267 Borah 89.2 88.3 93.1 89.5 94.4 90.9 5 ID 47 Sonora 64/Winalta 94.1 107.0 89.2 96.8 3 WA 6019 NS3880-227//3438//13735 92.6 104.4 95.6 97.5 3 UT498259 UT256-7-21-4/Pilot 88.4 100.7 68.1 85.7 3 WA 6018 NS3880-227/13438//13735 85.3 99.4 81.4 88.7 3 UT498327 UT256-7-21-4/Pilot 89.6 96.2 78.7 88.2 3 ID725073 N10/ST//ID/3/IDD59/4/Lm66 89.7 88.9 81.7 86.8 3 ID725071 NRN10/ST//IDD/3/IDD59 74.1 86.4 74.2 78.2 3 ID725075 Idaed 59/4*Lemhi 62 85.4 85.5 72.0 81.0 3 ID725076 Idaed 59/4*Lemhi 62 77.7 79.8 54.4 70.6 3 ID725076 Idaed 59/4*Lemhi 62 80.9 76.4 76.8 78.0 3 ID725076 Idaed 59/4*Lemhi 62 78.2 65.4 71.7 71.8 3 ID 94 Aberdeen 6535-114-5-4-2 111.9 73.7 92.8 2 ID 87 Aberdeen 6535-114-5-5-1 107.2 78.6 92.9 2 MT 7156 SI/3/NRN10/BVR14//5*CNT 88.6 89.0 88.8 2 UT498165 UT256-7-21-4/Pilot 89.5 89.5 1 WA 6101 LRN10/BVR11//P 14/3/101 86.3 86.3 1 WA 6105 HRY/KRN//AO/HRPC/3/13730 83.6 83.6 1 UMA 6106 LRN10/BVR11//P 14/3/101 86.3 86.3 1 ID 106 Twin/Triple Dirk 81.2 81.2 1 ID 107 TZPP/3*AN//B61-136 78.2 78.2 1 UT498222 UT256-7-21-4/Pilot 71.6 71.6 1 ID 105 Twin*3//227196/A63166S 64.5 64.5 1 ID 104 SPF*3/3/ULKA/FR//LMK66 64.3 64.3 1	I 4734	Federation	51.3	65.3	69.4	69.4	40.7	59.2	5	59
ID 47 Sonora 64/Winalta 94.1 107.0 89.2 96.8 3 WA 6019 NS3880-227//3438//13735 92.6 104.4 95.6 97.5 3 UT498259 UT256-7-21-4/Pilot 88.4 100.7 68.1 85.7 3 WA 6018 NS3880-227/13438//13735 85.3 99.4 81.4 88.7 3 UT498327 UT256-7-21-4/Pilot 89.6 96.2 78.7 88.2 3 ID725073 N10/ST//ID/3/ID59/4/Lm66 89.7 88.9 81.7 86.8 3 ID725071 NRN10/ST//IDD/3/IDD59 74.1 86.4 74.2 78.2 3 ID725075 Idaed 59/4*Lemhi 62 85.4 85.5 72.0 81.0 3 ID725076 Idaed 59/4*Lemhi 62 77.7 79.8 54.4 70.6 3 ID725078 Idaed 59/4*Lemhi 62 80.9 76.4 76.8 78.0 3 ID725076 Idaed 59/4*Lemhi 62 78.2 65.4 71.7 71.8 3 ID 94 Aberdeen 6535-114-5-4-2 111.9 73.7 92.8 2 ID 87 Aberdeen 6535-114-5-5-1 107.2 78.6 92.9 2 MT 7156 SI/3/NRN10/BVR14//5*CNT 88.6 89.0 88.8 2 UT498165 UT256-7-21-4/Pilot 89.5 89.5 1 WA 6101 LRN10/BVR11//P 14/3/101 86.3 86.3 1 WA 6105 HRY/KRN//AO/HRPC/3/13730 83.6 83.6 1 UNA 6106 LRN10/BVR11//P 14/3/101 86.3 86.3 1 ID 106 Twin/Triple Dirk 81.2 81.2 1 ID 107 TZPP/3*AN//B61-136 78.2 78.2 1 WA 6158 HRY/KRN/AO/HRPC/3/13730 75.6 75.6 1 UT498222 UT256-7-21-4/Pilot 71.6 71.6 71.6 1 ID 105 Twin*3//227196/A63166S 64.5 64.5 1 ID 104 SPF*3/3/ULKA/FR//LMK66	I 17268	Fielder	106.0	93.4	94.8	108.8	95.5	99.7	5	100
WA 6019 NS3880-227//3438//13735 92.6 104.4 95.6 97.5 3 UT498259 UT256-7-21-4/Pilot 88.4 100.7 68.1 85.7 3 WA 6018 NS3880-227/13438//13735 85.3 99.4 81.4 88.7 3 UT498327 UT256-7-21-4/Pilot 89.6 96.2 78.7 88.2 3 ID725073 N10/ST//ID/3/ID59/4/Lm66 89.7 88.9 81.7 86.8 3 ID725071 NRN10/ST//IDD/3/IDD59 74.1 86.4 74.2 78.2 3 ID725075 Idaed 59/4*Lemhi 62 85.4 85.5 72.0 81.0 3 ID725077 Idaed 59/4*Lemhi 62 77.7 79.8 54.4 70.6 3 ID725078 Idaed 59/4*Lemhi 62 80.9 76.4 76.8 78.0 3 ID725076 Idaed 59/4*Lemhi 62 77.7 79.8 54.4 70.6 3 ID725076 Idaed 59/4*Lemhi 62 80.9 76.4 76.8 78.0 3 ID725076 Idaed 59/4*Lemhi 62 111.9 73.7 92.8 2 ID 87 Aberdeen 6535-114-5-4-2 111.9 73.7 92.8 2 ID 87 Aberdeen 6535-114-5-5-1 107.2 78.6 92.9 2 MT 7156 SI/3/NRN10/BVR14//5*CNT 88.6 89.0 88.8 2 UT498165 UT256-7-21-4/Pilot 89.5 89.5 1 WA 6101 LRN10/BVR11//P 14/3/101 86.3 86.3 1 ID 106 TWIN/Triple Dirk 83.6 83.6 1 ID 107 TZPP/3*AN//B61-136 78.2 78.2 1 ID 107 TZPP/3*AN//B61-136 78.2 78.2 78.2 1 UT498222 UT256-7-21-4/Pilot 71.6 71.6 1 UT498222 UT256-7-21-4/Pilot 71.6 71.6 1 ID 105 TWIN*3//227196/A63166S 64.5 64.5 1 ID 104 SPF*3/3/ULKA/FR//LMK66	I 17267	Borah	89.2	88.3	93.1	89.5	94.4	90.9		91
UT498259 UT256-7-21-4/Pilot 88.4 100.7 68.1 85.7 3 WA 6018 NS3880-227/13438//13735 85.3 99.4 81.4 88.7 3 UT498327 UT256-7-21-4/Pilot 89.6 96.2 78.7 88.2 3 ID725073 N10/ST//ID/3/ID59/4/Lm66 89.7 88.9 81.7 86.8 3 ID725071 NRN10/ST//IDD/3/IDD59 74.1 86.4 74.2 78.2 3 ID725075 Idaed 59/4*Lemhi 62 85.4 85.5 72.0 81.0 3 ID725076 Idaed 59/4*Lemhi 62 77.7 79.8 54.4 70.6 3 ID725076 Idaed 59/4*Lemhi 62 80.9 76.4 76.8 78.0 3 ID725076 Idaed 59/4*Lemhi 62 78.2 65.4 71.7 71.8 3 ID 94 Aberdeen 6535-114-5-4-2 111.9 73.7 92.8 2 ID 87 Aberdeen 6535-114-5-5-1 107.2 78.6 92.9 2 MT 7156 SI/3/NRN10/BVR14//5*CNT 88.6 89.0 88.8 2 UT498165 UT256-7-21-4/Pilot 89.5 89.5 1 WA 6101 LRN10/BVR11//P 14/3/101 86.3 86.3 1 WA 6100 LRN10/BVR11//P 14/3/101 83.3 83.3 1 ID 106 Twin/Triple Dirk 81.2 81.2 1 ID 107 TZPP/3*AN//B61-136 78.2 78.2 1 WA 6158 HRY/KRN//AO/HRPC/3/13730 75.6 75.6 1 UT498222 UT256-7-21-4/Pilot 71.6 71.6 1 ID 105 Twin*3//227196/A63166S 64.5 64.5 1 ID 104 SPF*3/3/ULKA/FR//LMK66	D 47	Sonora 64/Winalta			94.1	107.0	89.2	96.8		97
WA 6018 NS3880-227/13438//13735 85.3 99.4 81.4 88.7 3 UT498327 UT256-7-21-4/Pilot 89.6 96.2 78.7 88.2 3 ID725073 N10/ST//ID/3/ID59/4/Lm66 89.7 88.9 81.7 86.8 3 ID725071 NRN10/ST//IDD/3/IDD59 74.1 86.4 74.2 78.2 3 ID725075 Idaed 59/4*Lemhi 62 85.4 85.5 72.0 81.0 3 ID725077 Idaed 59/4*Lemhi 62 77.7 79.8 54.4 70.6 3 ID725078 Idaed 59/4*Lemhi 62 80.9 76.4 76.8 78.0 3 ID725076 Idaed 59/4*Lemhi 62 78.2 65.4 71.7 71.8 3 ID 94 Aberdeen 6535-114-5-4-2 111.9 73.7 92.8 2 ID 87 Aberdeen 6535-114-5-4-1 107.2 78.6 92.9 2 ID 87 Aberdeen 6535-114-5-5-1 88.6 89.0 88.8 2 UT498165 UT256-7-21-4/Pilot 89.5 89.5 1 WA 6101 LRN10/BVR11//P14/3/101 86.3 86.3 1 WA 6105 HRY/KRN//AO/HRPC/3/13730 83.6 83.6 1 WA 6106 LRN10/BVR11//P14/3/101 83.3 83.3 1 ID 107 TZPP/3*AN//B61-136 78.2 78.2 1 WA 6158 HRY/KRN//AO/HRPC/3/13730 75.6 75.6 1 UT498222 UT256-7-21-4/Pilot 71.6 71.6 1 ID 105 Twin*3//227196/A63166S 64.5 64.5 1 ID 104 SPF*3/3/ULKA/FR//LMK66	A 6019	NS3880-227//3438//137	35		92.6	104.4	95.6	97.5		98
UT498327 UT256-7-21-4/Pilot 89.6 96.2 78.7 88.2 3 ID725073 N10/ST//ID/3/ID59/4/Lm66 89.7 88.9 81.7 86.8 3 ID725071 NRN10/ST//IDD/3/IDD59 74.1 86.4 74.2 78.2 3 ID725075 Idaed 59/4*Lemhi 62 85.4 85.5 72.0 81.0 3 ID725077 Idaed 59/4*Lemhi 62 77.7 79.8 54.4 70.6 3 ID725078 Idaed 59/4*Lemhi 62 77.7 79.8 54.4 70.6 3 ID725076 Idaed 59/4*Lemhi 62 78.2 65.4 71.7 71.8 3 ID 94 Aberdeen 6535-114-5-4-2 111.9 73.7 92.8 2 ID 87 Aberdeen 6535-114-5-5-1 107.2 78.6 92.9 2 MT 7156 SI/3/NRN10/BVR14//5*CNT 88.6 89.0 88.8 2 UT498165 UT256-7-21-4/Pilot 89.5 89.5 1 WA 6101 LRN10/BVR11//P 14/3/101 86.3 86.3 1 WA 6105 HRY/KRN//AO/HRPC/3/13730 83.6 83.6 1 WA 6106 Twin/Triple Dirk 81.2 81.2 1 ID 107 TZPP/3*AN//B61-136 78.2 78.2 1 WA 6158 HRY/KRN//AO/HRPC/3/13730 75.6 75.6 1 UT498222 UT256-7-21-4/Pilot 71.6 71.6 1 ID 105 Twin*3//227196/A63166S 64.5 64.5 1 ID 104 SPF*3/3/ULKA/FR//LMK66 64.3 64.3 1	T498259	UT256-7-21-4/Pilot			88.4	100.7	68.1	85.7		86
ID725073 N10/ST//ID/3/ID59/4/Lm66 89.7 88.9 81.7 86.8 3 ID725071 NRN10/ST//IDD/3/IDD59 74.1 86.4 74.2 78.2 3 ID725075 Idaed 59/4*Lemhi 62 85.4 85.5 72.0 81.0 3 ID725077 Idaed 59/4*Lemhi 62 77.7 79.8 54.4 70.6 3 ID725078 Idaed 59/4*Lemhi 62 80.9 76.4 76.8 78.0 3 ID725076 Idaed 59/4*Lemhi 62 78.2 65.4 71.7 71.8 3 ID 94 Aberdeen 6535-114-5-4-2 111.9 73.7 92.8 2 ID 87 Aberdeen 6535-114-5-5-1 107.2 78.6 92.9 2 MT 7156 SI/3/NRN10/BVR14//5*CNT 88.6 89.0 88.8 2 UT498165 UT256-7-21-4/Pilot 89.5 89.5 1 WA 6101 LRN10/BVR11//P14/3/101 86.3 86.3 1 WA 6105 HRY/KRN//AO/HRPC/3/13730 83.6 83.6 1 WA 6100 LRN10/BVR11//P14/3/101 83.3 83.3 1 ID 106 Twin/Triple Dirk 81.2 81.2 1 ID 107 TZPP/3*AN//B61-136 78.2 78.2 1 WA 6158 HRY/KRN//AO/HRPC/3/13730 75.6 75.6 1 UT498222 UT256-7-21-4/Pilot 71.6 71.6 1 ID 105 Twin*3//227196/A63166S 64.5 64.5 1 ID 104 SPF*3/3/ULKA/FR//LMK66 64.3 64.3 1	A 6018	NS3880-227/13438//137	35		85.3	99.4	81.4			89
ID725071 NRN10/ST//IDD/3/IDD59 74.1 86.4 74.2 78.2 3 ID725075 Idaed 59/4*Lemhi 62 85.4 85.5 72.0 81.0 3 ID725077 Idaed 59/4*Lemhi 62 77.7 79.8 54.4 70.6 3 ID725078 Idaed 59/4*Lemhi 62 80.9 76.4 76.8 78.0 3 ID725076 Idaed 59/4*Lemhi 62 78.2 65.4 71.7 71.8 3 ID 94 Aberdeen 6535-114-5-4-2 111.9 73.7 92.8 2 ID 87 Aberdeen 6535-114-5-5-1 107.2 78.6 92.9 2 MT 7156 SI/3/NRN10/BVR14//5*CNT 88.6 89.0 88.8 2 UT498165 UT256-7-21-4/Pilot 89.5 89.5 1 WA 6101 LRN10/BVR11//P 14/3/101 86.3 86.3 1 WA 6105 HRY/KRN//AO/HRPC/3/13730 83.6 83.6 1 WA 6158 HRY/KRN//AO/HRPC/3/13730 75.6 75.6 1 WA 6158 HRY/KRN//AO/HRPC/3/13730 75.6 75.6 1 </td <td>T498327</td> <td>UT256-7-21-4/Pilot</td> <td></td> <td></td> <td>89.6</td> <td>96.2</td> <td>78.7</td> <td>88.2</td> <td></td> <td>88</td>	T498327	UT256-7-21-4/Pilot			89.6	96.2	78.7	88.2		88
ID725075 Idaed 59/4*Lemhi 62 85.4 85.5 72.0 81.0 3 ID725077 Idaed 59/4*Lemhi 62 77.7 79.8 54.4 70.6 3 ID725078 Idaed 59/4*Lemhi 62 80.9 76.4 76.8 78.0 3 ID725076 Idaed 59/4*Lemhi 62 78.2 65.4 71.7 71.8 3 ID725076 Idaed 59/4*Lemhi 62 78.2 65.4 71.7 71.8 3 ID 94 Aberdeen 6535-114-5-4-2 111.9 73.7 92.8 2 ID 87 Aberdeen 6535-114-5-5-1 107.2 78.6 92.9 2 MT 7156 SI/3/NRN10/BVR14//5*CNT 88.6 89.0 88.8 2 UT498165 UT256-7-21-4/Pilot 89.5 89.5 1 WA 6101 LRN10/BVR11//P 14/3/101 86.3 86.3 1 WA 6105 HRY/KRN//AO/HRPC/3/13730 83.6 83.6 1 WA 6100 LRN10/BVR11//P14/3/101 83.3 83.3 1 ID 106 Twin/Triple Dirk 81.2 81.2 1 ID 107 TZPP/3*AN//B61-136 78.2 78.2 1 WA 6158 HRY/KRN//AO/HRPC/3/13730 75.6 75.6 1 UT498222 UT256-7-21-4/Pilot 71.6 71.6 1 ID 105 Twin*3//227196/A63166S 64.5 64.5 1 ID 104 SPF*3/3/ULKA/FR/LMK66	D725073	N10/ST//ID/3/ID59/4/Ln	m66		89.7	88.9	81.7	86.8		87
ID725077 Idaed 59/4*Lemhi 62 77.7 79.8 54.4 70.6 3 ID725078 Idaed 59/4*Lemhi 62 80.9 76.4 76.8 78.0 3 ID725076 Idaed 59/4*Lemhi 62 78.2 65.4 71.7 71.8 3 ID 94 Aberdeen 6535-114-5-4-2 111.9 73.7 92.8 2 ID 87 Aberdeen 6535-114-5-5-1 107.2 78.6 92.9 2 MT 7156 SI/3/NRN10/BVR14//5*CNT 88.6 89.0 88.8 2 UT498165 UT256-7-21-4/Pilot 89.5 89.5 1 WA 6101 LRN10/BVR11//P 14/3/101 86.3 86.3 1 WA 6105 HRY/KRN/AO/HRPC/3/13730 83.6 83.6 1 WA 6100 LRN10/BVR11//P14/3/101 83.3 83.3 1 ID 106 Twin/Triple Dirk 81.2 81.2 1 ID 107 TZPP/3*AN//B61-136 78.2 78.2 1 WA 6158 HRY/KRN/AO/HRPC/3/13730 75.6 75.6 1 UT498222 UT256-7-21-4/Pilot 71.6 71.6 1 ID 105 Twin*3//227196/A63166S 64.5 64.5 1 ID 104 SPF*3/3/ULKA/FR/LMK66 64.3 64.3 1	D725071	NRN10/ST//IDD/3/IDD59			74.1	86.4	74.2			78
ID725078 Idaed 59/4*Lemhi 62 80.9 76.4 76.8 78.0 3 ID725076 Idaed 59/4*Lemhi 62 78.2 65.4 71.7 71.8 3 ID 94 Aberdeen 6535-114-5-4-2 111.9 73.7 92.8 2 ID 87 Aberdeen 6535-114-5-5-1 107.2 78.6 92.9 2 MT 7156 SI/3/NRN10/BVR14//5*CNT 88.6 89.0 88.8 2 UT498165 UT256-7-21-4/Pilot 89.5 89.5 1 WA 6101 LRN10/BVR11//P 14/3/101 86.3 86.3 1 WA 6105 HRY/KRN//AO/HRPC/3/13730 83.6 83.6 1 UD 106 Twin/Triple Dirk 81.2 81.2 1 ID 107 TZPP/3*AN//B61-136 78.2 78.2 1 WA 6158 HRY/KRN//AO/HRPC/3/13730 75.6 75.6 1 UT498222 UT256-7-21-4/Pilot 71.6 71.6 1 ID 105 Twin*3//227196/A63166S 64.5 64.5 1 ID 104 SPF*3/3/ULKA/FR//LMK66 64.3 64.3 1	D725075	Idaed 59/4*Lemhi 62			85.4	85.5	72.0	81.0		81
ID725076 Idaed 59/4*Lemhi 62 78.2 65.4 71.7 71.8 3 ID 94 Aberdeen 6535-114-5-4-2 111.9 73.7 92.8 2 ID 87 Aberdeen 6535-114-5-5-1 107.2 78.6 92.9 2 MT 7156 SI/3/NRN10/BVR14//5*CNT 88.6 89.0 88.8 2 UT498165 UT256-7-21-4/Pilot 89.5 89.5 1 WA 6101 LRN10/BVR11//P 14/3/101 86.3 86.3 1 WA 6105 HRY/KRN//AO/HRPC/3/13730 83.6 83.6 1 WA 6100 LRN10/BVR11//P14/3/101 83.3 83.3 1 ID 106 Twin/Triple Dirk 81.2 81.2 1 ID 107 TZPP/3*AN//B61-136 78.2 78.2 1 WA 6158 HRY/KRN//AO/HRPC/3/13730 75.6 75.6 1 UT498222 UT256-7-21-4/Pilot 71.6 71.6 1 ID 105 Twin*3//227196/A63166S 64.5 64.5 1 ID 104 SPF*3/3/ULKA/FR/LMK66 64.3 64.3 1	D725077	Idaed 59/4*Lemhi 62			77.7	79.8	54.4	70.6		71
ID 94 Aberdeen 6535-114-5-4-2 ID 87 Aberdeen 6535-114-5-5-1 ID 87 Aberdeen 6535-114-5-5-1 ID 88.6 89.0 88.8 2 ID 89.5 89.5 1 ID 106 Twin/Triple Dirk ID 107 TZPP/3*AN//B61-136 ID 108 Twin*3//227196/A63166S ID 104 SPF*3/3/ULKA/FR//LMK66 ID 104 SPF*3/3/ULKA/FR//LMK66 ID 104 SPF*3/3/ULKA/FR//LMK66 ID 104 SPF*3/3/ULKA/FR//LMK66 ID 105 Twin*3//227196/A63166S ID 104 SPF*3/3/ULKA/FR//LMK66 ID 107 T3.7 92.8 2 I111.9 73.7 92.8 2 I111.9 73.7 92.8 2 I110.9 73.7 92.8 2 I111.9 73.7 92.8 2 I11.9 73.7 92.8 2 I111.9 73.7 92.8 2 I111.9 73.7 92.8 I I11.9 73.7 92.8 I I11.9 73.7 92.8 I I11.9 73.7 92.8 I I11.9 73.7 92.8 I II1.9 I11.9 III.9 I III.9 I11.9 I III.9 III.9 I III.9 III.9 I III.9 III.9 I III.9 I11.9 I III.9 III.9 I III.9 I III.9 III.9 I III	D725078	Idaed 59/4*Lemhi 62			80.9		76.8			78
ID 87 Aberdeen 6535-114-5-5-1 107.2 78.6 92.9 2 MT 7156 SI/3/NRN10/BVR14//5*CNT 88.6 89.0 88.8 2 UT498165 UT256-7-21-4/Pilot 89.5 89.5 1 WA 6101 LRN10/BVR11//P 14/3/101 86.3 86.3 1 WA 6105 HRY/KRN//AO/HRPC/3/13730 83.6 83.6 1 WA 6100 LRN10/BVR11//P14/3/101 83.3 83.3 1 ID 106 Twin/Triple Dirk 81.2 81.2 1 ID 107 TZPP/3*AN//B61-136 78.2 78.2 1 WA 6158 HRY/KRN//AO/HRPC/3/13730 75.6 75.6 1 UT498222 UT256-7-21-4/Pilot 71.6 71.6 1 ID 105 Twin*3//227196/A63166S 64.5 64.5 1 ID 104 SPF*3/3/ULKA/FR//LMK66 64.3 64.3 1	D725076	Idaed 59/4*Lemhi 62			78.2	65.4	71.7	71.8		72
MT 7156 SI/3/NRN10/EVR14//5*CNT 88.6 89.0 88.8 2 UT498165 UT256-7-21-4/Pilot 89.5 89.5 1 WA 6101 LRN10/EVR11//P 14/3/101 86.3 86.3 1 WA 6105 HRY/KRN//AO/HRPC/3/13730 83.6 83.6 1 WA 6100 LRN10/EVR11//P14/3/101 83.3 83.3 1 ID 106 Twin/Triple Dirk 81.2 81.2 1 ID 107 TZPP/3*AN//B61-136 78.2 78.2 1 WA 6158 HRY/KRN//AO/HRPC/3/13730 75.6 75.6 1 UT498222 UT256-7-21-4/Pilot 71.6 71.6 1 ID 105 Twin*3//227196/A63166S 64.5 64.5 1 ID 104 SPF*3/3/ULKA/FR//LMK66 64.3 64.3 1	D 94	Aberdeen 6535-114-5-4	-2			111.9	73.7			91
UT498165 UT256-7-21-4/Pilot 89.5 89.5 1 WA 6101 LRN10/BVR11//P14/3/101 86.3 86.3 1 WA 6105 HRY/KRN/AO/HRPC/3/13730 83.6 83.6 1 WA 6100 LRN10/BVR11//P14/3/101 83.3 83.3 1 ID 106 Twin/Triple Dirk 81.2 81.2 1 ID 107 TZPP/3*AN//B61-136 78.2 78.2 1 WA 6158 HRY/KRN/AO/HRPC/3/13730 75.6 75.6 1 UT498222 UT256-7-21-4/Pilot 71.6 71.6 1 ID 105 Twin*3//227196/A63166S 64.5 64.5 1 ID 104 SPF*3/3/ULKA/FR//LMK66 64.3 64.3 1	D 87	Aberdeen 6535-114-5-5	-1			107.2		92.9		91
WA 6101 LRN10/BVR11//P 14/3/101 86.3 86.3 1 WA 6105 HRY/KRN/AO/HRPC/3/13730 83.6 83.6 1 WA 6100 LRN10/BVR11//P14/3/101 83.3 83.3 1 ID 106 Twin/Triple Dirk 81.2 81.2 1 ID 107 TZPP/3*AN//B61-136 78.2 78.2 1 WA 6158 HRY/KRN/AO/HRPC/3/13730 75.6 75.6 1 UT498222 UT256-7-21-4/Pilot 71.6 71.6 1 ID 105 Twin*3//227196/A63166S 64.5 64.5 1 ID 104 SPF*3/3/ULKA/FR//LMK66 64.3 64.3 1	T 7156	SI/3/NRN10/BVR14//5*C	NT			88.6	89.0	88.8		87
WA 6105 HRY/KRN//AO/HRPC/3/13730 WA 6100 LRN10/BVR11//P14/3/101 B3.3 83.3 1 BD 106 Twin/Triple Dirk B1.2 81.2 1 BD 107 TZPP/3*AN//B61-136 WA 6158 HRY/KRN//AO/HRPC/3/13730 B3.6 83.6 1 B1.2 81.2 1 B1.2 81.2 1 B1.2 78.2 78.2 1 B1.2 75.6 75.6 1 B1.2 81.2 1 B1.2	T498165	UT256-7-21-4/Pilot					89.5			94
WA 6100 LRN10/BVR11//P14/3/101 83.3 83.3 1 ID 106 Twin/Triple Dirk 81.2 81.2 1 ID 107 TZPP/3*AN//B61-136 78.2 78.2 1 WA 6158 HRY/KRN//AO/HRPC/3/13730 75.6 75.6 1 UT498222 UT256-7-21-4/Pilot 71.6 71.6 1 ID 105 Twin*3//227196/A63166S 64.5 64.5 1 ID 104 SPF*3/3/ULKA/FR//LMK66 64.3 64.3 1	A 6101	LRN10/BVR11//P 14/3/10	1							91
ID 106 Twin/Triple Dirk 81.2 81.2 1 ID 107 TZPP/3*AN//B61-136 78.2 78.2 1 WA 6158 HRY/KRN//AO/HRPC/3/13730 75.6 75.6 1 UT498222 UT256-7-21-4/Pilot 71.6 71.6 1 ID 105 Twin*3//227196/A63166S 64.5 64.5 1 ID 104 SPF*3/3/ULKA/FR//LMK66 64.3 64.3 1	A 6105	HRY/KRN//AO/HRPC/3/13	730				83.6	83.6		88
ID 107 TZPP/3*AN//B61-136 78.2 78.2 1 WA 6158 HRY/KRN//AO/HRPC/3/13730 75.6 75.6 1 UT498222 UT256-7-21-4/Pilot 71.6 71.6 1 ID 105 Twin*3//227196/A63166S 64.5 64.5 1 ID 104 SPF*3/3/ULKA/FR//LMK66 64.3 64.3 1	A 6100	LRN10/BVR11//P14/3/10	1							87
WA 6158 HRY/KRN//AO/HRPC/3/13730 75.6 75.6 1 UT498222 UT256-7-21-4/Pilot 71.6 71.6 1 ID 105 Twin*3//227196/A63166S 64.5 64.5 1 ID 104 SPF*3/3/ULKA/FR//LMK66 64.3 64.3 1	D 106	Twin/Triple Dirk					81.2	81.2	1	85
UT498222 UT256-7-21-4/Pilot 71.6 71.6 1 ID 105 Twin*3//227196/A63166S 64.5 64.5 1 ID 104 SPF*3/3/ULKA/FR//LMK66 64.3 64.3 1	D 107	TZPP/3*AN//B61-136								82
ID 105 Twin*3//227196/A63166S 64.5 64.5 1 ID 104 SPF*3/3/ULKA/FR//LMK66 64.3 64.3 1	A 6158	HRY/KRN//AO/HRPC/3/13'	730				75.6			79
ID 104 SPF*3/3/ULKA/FR//LMK66 64.3 64.3 1	T498222	UT256-7-21-4/Pilot						71.6	1	75
ID 104 SPF*3/3/ULKA/FR//LMK66 64.3 64.3 1	D 105	Twin*3//227196/A63166	S				64.5	64.5		68
E4 2 E4 2 1		SPF*3/3/ULKA/FR//LMK66	5				64.3	64.3	1	67
WA 6157 N6600313/Twin 54.3 54.3 1	A 6157	N6600313/Twin					54.3	54.3	1	57