

Table 5. UC SCOTT VALLEY ALFALFA CULTIVAR TRIAL 1999-2003 YIELDS. TRIAL PLANTED 4/22/99

|                               | 1999                    | 2000      | 2001      | 2002      | 2003      | Average   |                 | % OF Vernal |
|-------------------------------|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------------|-------------|
|                               | -----Yield-----         |           |           |           |           |           |                 | %           |
|                               | -----Dry tons/acre----- |           |           |           |           |           |                 |             |
| <b>Released Varieties</b>     |                         |           |           |           |           |           |                 |             |
| Reno                          | 4.16 (4)                | 7.67 (8)  | 7.89 (6)  | 7.62 (1)  | 7.73 (1)  | 6.96 (1)  | A               | 112.6       |
| Plumas (3L102)                | 4.03 (11)               | 7.75 (5)  | 7.87 (8)  | 7.39 (2)  | 7.16 (2)  | 6.82 (2)  | A B             | 110.3       |
| Dura 512                      | 4.20 (2)                | 8.08 (1)  | 7.55 (17) | 7.36 (4)  | 6.96 (6)  | 6.82 (3)  | A B             | 110.3       |
| Select                        | 4.15 (5)                | 7.79 (3)  | 7.88 (7)  | 7.17 (10) | 6.63 (11) | 6.79 (4)  | A B             | 109.8       |
| Blazer XL                     | 4.11 (7)                | 7.76 (4)  | 7.59 (15) | 7.26 (6)  | 6.93 (7)  | 6.74 (5)  | A B C           | 109.0       |
| Forecast 3001                 | 3.58 (25)               | 7.72 (7)  | 7.97 (5)  | 7.30 (5)  | 6.51 (14) | 6.63 (6)  | B C D           | 107.3       |
| 53V08                         | 3.51 (28)               | 7.57 (10) | 8.22 (2)  | 7.22 (8)  | 6.38 (19) | 6.61 (7)  | B C D E         | 106.9       |
| WL 334 RK                     | 3.47 (32)               | 7.23 (28) | 8.26 (1)  | 7.18 (9)  | 7.03 (4)  | 6.60 (8)  | B C D E         | 106.8       |
| Sentry                        | 4.07 (9)                | 7.82 (2)  | 7.46 (21) | 6.98 (13) | 6.67 (9)  | 6.56 (9)  | B C D E F       | 106.1       |
| Forecast 1001                 | 3.51 (29)               | 7.28 (25) | 7.98 (3)  | 7.38 (3)  | 7.08 (3)  | 6.56 (10) | B C D E F       | 106.1       |
| 330                           | 4.01 (14)               | 7.47 (17) | 7.64 (11) | 7.01 (11) | 6.29 (21) | 6.54 (11) | B C D E F G     | 105.8       |
| WL 327                        | 4.26 (1)                | 7.56 (11) | 7.67 (10) | 6.70 (22) | 6.12 (23) | 6.53 (12) | B C D E F G H   | 105.7       |
| 329                           | 3.97 (15)               | 7.58 (9)  | 7.51 (18) | 6.88 (17) | 6.49 (15) | 6.46 (15) | C D E F G H I   | 104.4       |
| Spirit                        | 3.80 (20)               | 7.38 (19) | 7.62 (13) | 6.98 (12) | 6.48 (16) | 6.45 (16) | C D E F G H I   | 104.3       |
| WL 325 HQ                     | 3.80 (19)               | 7.53 (14) | 7.49 (19) | 6.83 (18) | 6.66 (10) | 6.44 (17) | C D E F G H I   | 104.2       |
| Dura 400                      | 4.02 (13)               | 7.51 (15) | 7.47 (20) | 6.88 (15) | 6.55 (12) | 6.42 (18) | C D E F G H I   | 103.9       |
| Fortress                      | 3.72 (21)               | 7.35 (23) | 7.41 (24) | 6.98 (14) | 6.44 (17) | 6.42 (19) | C D E F G H I   | 103.9       |
| Key 2                         | 4.06 (10)               | 7.49 (16) | 7.32 (27) | 6.46 (26) | 6.42 (18) | 6.39 (20) | D E F G H I J   | 103.3       |
| Gold Plus                     | 4.08 (8)                | 7.73 (6)  | 7.16 (29) | 6.38 (30) | 6.28 (22) | 6.33 (21) | D E F G H I J K | 102.4       |
| TriStar                       | 3.65 (23)               | 7.36 (21) | 7.63 (12) | 6.76 (21) | 6.32 (20) | 6.32 (22) | D E F G H I J K | 102.2       |
| AlfaStar                      | 3.90 (16)               | 7.38 (20) | 7.44 (22) | 6.78 (19) | 5.98 (26) | 6.31 (23) | E F G H I J K   | 102.0       |
| Magnum V                      | 3.58 (26)               | 7.09 (30) | 7.56 (16) | 6.43 (27) | 6.52 (13) | 6.26 (24) | F G H I J K     | 101.3       |
| Innovator+Z                   | 4.03 (12)               | 7.36 (22) | 7.37 (26) | 6.63 (25) | 5.87 (29) | 6.26 (25) | F G H I J K     | 101.3       |
| DK 142                        | 4.12 (6)                | 7.55 (13) | 7.00 (32) | 6.43 (28) | 5.99 (25) | 6.25 (26) | F G H I J K     | 101.0       |
| Leaf Master                   | 4.20 (3)                | 7.47 (18) | 7.07 (30) | 6.41 (29) | 5.94 (27) | 6.21 (28) | H I J K         | 100.5       |
| Affinity+Z                    | 3.60 (24)               | 7.29 (24) | 7.41 (23) | 6.77 (20) | 5.72 (31) | 6.19 (29) | I J K           | 100.1       |
| Vernal                        | 3.55 (27)               | 7.24 (27) | 7.25 (28) | 6.35 (32) | 6.10 (24) | 6.18 (30) | I J K           | 100.0       |
| Amerigraze 401+Z              | 3.80 (18)               | 7.24 (26) | 7.06 (31) | 6.38 (31) | 5.83 (30) | 6.08 (31) | J K             | 98.4        |
| Archer II                     | 3.48 (30)               | 6.91 (32) | 7.41 (25) | 6.70 (23) | 5.68 (32) | 6.06 (32) | K               | 98.0        |
| <b>Experimental Varieties</b> |                         |           |           |           |           |           |                 |             |
| ZX 9853                       | 3.82 (17)               | 7.55 (12) | 7.81 (9)  | 6.88 (16) | 6.88 (8)  | 6.52 (13) | B C D E F G H   | 105.4       |
| ZG 9650A                      | 3.47 (31)               | 7.06 (31) | 7.98 (4)  | 7.26 (7)  | 6.98 (5)  | 6.50 (14) | B C D E F G H I | 105.2       |
| ZX 9451                       | 3.66 (22)               | 7.13 (29) | 7.60 (14) | 6.67 (24) | 5.89 (28) | 6.24 (27) | G H I J K       | 100.9       |
| Mean                          | 3.85                    | 7.47      | 7.58      | 6.89      | 6.45      | 6.47      |                 |             |
| CV                            | 4.8                     | 4.6       | 5.3       | 7.8       | 5.5       | 4.8       |                 |             |
| LSD (.05)                     | 0.23                    | 0.43      | 0.5       | 0.67      | 0.72      | 0.32      |                 |             |

Note: VARIETY X YEAR INTERACTION IS SIGNIFICANT

Trial seeded at 25 lb/acre viable seed at Scott Valley, CA

Entries followed by the same letter are not significantly different at the 5% probability level according to Fishers (protected) LSD.