

1 10.1071/CP10070\_AC  
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3 Accessory Publication: Crop & Pasture Science, 2010, 61(6), 450–463.  
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6 **Accessory data Table 1.** Line means for total yield (g/m of row) of testcross parents, **sac** and  
7 Omani line testcrosses and commercial and experimental synthetics grown in rows at Gatton  
8 over a 16-month period

9 Means followed by letters are not significantly ( $P < 0.05$ ) different to the line named with that letter

| Line                           | Mean<br>total<br>yield | Significance |
|--------------------------------|------------------------|--------------|
| MBX                            | 1084                   | A AB.....    |
| WISFAL testcrosses             | 1300                   | B ABC.....   |
| Oman 2                         | 1470                   | C .BC.....   |
| <b>sac</b> x901 testcrosses    | 1703                   | D ...D.....  |
| commercial synthetic cultivars | 1791                   | E ....EF.H.. |
| <b>sac</b> Oman testcrosses    | 1839                   | F ....EF.H.. |
| Omanx901 testcrosses           | 1941                   | G .....GHI.  |
| 901                            | 1956                   | H ....EFGHIJ |
| third party experimentals      | 1957                   | I .....GHI.  |
| UQL synthetic experimentals    | 2074                   | J .....H.J   |

10 **Accessory data Table 2.** Individual line total yield (g/m of row) of individual testcross  
 11 parents, **sac** and Omani line testcrosses and commercial and experimental synthetics grown in  
 12 rows at Gatton over a 16-month period

13 Means followed by letters are not significantly ( $P < 0.05$ ) different to the line named with that letter

| Line                 | Total yield |   | Significance  |
|----------------------|-------------|---|---|
| WISFALxsac(7 x 2)    | 1024        | A | AB.....   |
| MBX                  | 1084        | B | AB.....   |
| WISFALxOman 5        | 1429        | C | ..CDEFGHIJK.....  |
| WISFALxOman 2        | 1448        | D | ..CDEFGHI.....  |
| Oman 2               | 1470        | E | ..CDEFGHIJKL.NO.....  |
| 901xsac(9 x 2)       | 1607        | F | ..CDEFGHIJKLMNOPQRSTUVWXYZa.c.....                          |
| 54Q53                | 1608        | G | ..CDEFGHIJKLMNOPQRST..W..Z.....                             |
| 901xsac(9 x 7)       | 1650        | H | ..CDEFGHIJKLMNOPQRSTUVWXYZabcd.f.hi...m.....                |
| 901xsac(10 x 1)      | 1656        | I | ..CDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopghijklm.....      |
| 901xWA3048           | 1658        | J | ..C.EFGHIJKLMNOPQRSTUVWXYZabcd.f.hi...m.....                |
| 901xsac(7 x 2)       | 1659        | K | ..C.EFGHIJKLMNOPQRSTUVWXYZabcd.f.hi...m.....                |
| UQL1                 | 1667        | L | ....EFGHIJKLMNOPQRSTUVWXYZabc..f.hi...m.....                |
| SARDI five           | 1676        | M | ....FGHIJKLMNOPQRSTUVWXYZabcd.f.hi...m.....                 |
| 901xWA3044           | 1676        | N | ....EFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopghijklm.....      |
| 901xsac(8 x 2)x1     | 1683        | O | ....EFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopghi..lm.....      |
| HunterRiver          | 1720        | P | ....FGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopghijklm.....u..... |
| 901xsac seg 06/1     | 1723        | Q | ....FGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopghijklm.....u..... |
| Oman 2xsac(9 x 7)    | 1739        | R | ....FGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvw.....       |
| 901xOman 8           | 1748        | S | ....FGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxy.....     |
| Oman 2xsac(7 x 2)    | 1753        | T | ....FGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuv.x.....      |
| 901xsac 4⊗           | 1790        | U | ....F.HIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvw.....       |
| 901xWA3047           | 1807        | V | ....F.HIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyA.C....   |
| Oman 2xWA3047        | 1808        | W | ....FGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyABC....   |
| Sequel               | 1816        | X | ....F.HIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyABC....   |
| Silverado            | 1818        | Y | ....F.HIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyABC....   |
| Oman 2xsac(9x2)      | 1818        | Z | ....FGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyABC....   |
| 901xsac seg 06/2     | 1826        | a | ....F.HIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyABC....   |
| Oman 2xsac 4⊗        | 1848        | b | .....HIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyABC....    |
| 901xOman 2           | 1848        | c | ....F.HIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyABC....   |
| Trifecta             | 1848        | d | .....HIJK.MNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyABC....    |
| Oman 2x sac seg 06/1 | 1867        | e | .....I....NOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyABC....     |
| Oman 2xsac(8 x 2)x1  | 1871        | f | .....HIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyABCDEF.    |
| SARDI ten            | 1872        | g | .....I....NOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyABC....     |
| Oman 2xWA3044        | 1875        | h | .....HIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyABCDEF.    |
| Oman 2xWA3048        | 1876        | i | .....HIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyABCDEF.    |
| SARDI seven          | 1884        | j | .....I....N.PQRSTUVWXYZabcdefghijklmnopqrstuvwxyABCDE..     |
| Hallmark             | 1885        | k | .....I....N.PQRSTUVWXYZabcdefghijklmnopqrstuvwxyABCDE..     |
| Oman 2xsac seg 06/2  | 1886        | l | .....I....NOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyABCDEF.     |
| Oman 2xsac(10 x 1)   | 1891        | m | .....HIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyABCDEFG    |

|                |      |   |   |
|----------------|------|---|---|
| SuperSequel    | 1905 | n | .....RSTUVWXYZabcdefghijklmnopqrstuvwxyABCDEF   |
| 901xOman 3     | 1910 | o | .....RSTUVWXYZabcdefghijklmnopqrstuvwxyABCDEF   |
| Experimental 2 | 1924 | p | .....RSTUVWXYZabcdefghijklmnopqrstuvwxyABCDEF   |
| Experimental 3 | 1930 | q | .....RSTUVWXYZabcdefghijklmnopqrstuvwxyABCDEF   |
| Experimental 1 | 1934 | r | .....RSTUVWXYZabcdefghijklmnopqrstuvwxyABCDEF   |
| 901xOman 1     | 1935 | s | .....RSTUVWXYZabcdefghijklmnopqrstuvwxyABCDEF   |
| 901xOman 7     | 1950 | t | .....RSTUVWXYZabcdefghijklmnopqrstuvwxyABCDEF   |
| 901xOman 10    | 1951 | u | .....PQRSTUVWXYZabcdefghijklmnopqrstuvwxyABCDEF |
| 901x901        | 1956 | v | .....RSTUVWXYZabcdefghijklmnopqrstuvwxyABCDEF   |
| 901xOman 9     | 1964 | w | .....RS.UVWXYZabcdefghijklmnopqrstuvwxyABCDEF   |
| 901xOman 11    | 1971 | x | .....RSTUVWXYZabcdefghijklmnopqrstuvwxyABCDEF   |
| Experimental 6 | 1979 | y | .....S..VWXYZabcdefghijklmnopqrstuvwxyABCDEF    |
| Experimental 5 | 1983 | z | .....S..VWXYZabcdefghijklmnopqrstuvwxyABCDEF    |
| 901xOman 6     | 1987 | A | .....VWXYZabcdefghijklmnopqrstuvwxyABCDEF       |
| Experimental 4 | 1995 | B | .....WXYZabcdefghijklmnopqrstuvwxyABCDEF        |
| 901xOman 13    | 1998 | C | .....VWXYZabcdefghijklmnopqrstuvwxyABCDEF       |
| UQL-13         | 2066 | D | .....f.hijklmnopqrstuvwxyABCDEF                 |
| UQL-11         | 2073 | E | .....f.hijklmnopqrstuvwxyABCDEF                 |
| UQL-12         | 2082 | F | .....f.hi..lmnopqrstuvwxyABCDEF                 |
| 901xOman 5     | 2089 | G | .....mnopqrstuvwxyABCDEF                        |

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15 **Accessory data Table 3.** Line means for autumn height (cm) of testcross parents, **sac** and  
16 Omani line testcrosses and commercial and experimental synthetics grown in rows at Gatton  
17 over a 16-month period

18 Means followed by letters are not significantly ( $P < 0.05$ ) different to the line named with that letter

| Line                           | Autumn height | Significance |
|--------------------------------|---------------|--------------|
| MBX                            | 27.89         | A AB.....    |
| WISFAL testcrosses             | 35.10         | B ABC.....   |
| <b>sac</b> x901 testcrosses    | 37.32         | C .BCD.....  |
| commercial synthetic cultivars | 39.38         | D ..CD.....  |
| third party experimentals      | 43.34         | E ....EFG... |
| UQL synthetic experimentals    | 45.43         | F ....EFG... |
| 901                            | 47.73         | G ....EFGH.J |
| <b>sac</b> xOman testcrosses   | 50.01         | H .....GH.J  |
| Omanx901 testcrosses           | 53.60         | I .....I.J   |
| Oman 2                         | 53.94         | J .....GHIJ  |

20 **Accessory data Table 4.** Individual line mean autumn height (cm) of individual testcross  
 21 parents, **sac** and Omani line testcrosses and commercial and experimental synthetics grown in  
 22 rows at Gatton over a 16-month period

23 Means followed by letters are not significantly ( $P < 0.05$ ) different to the line named with that letter

| Line              | Autumn height | Significance   |
|-------------------|---------------|--|
| WISFALxsac(7 x 2) | 24.69         | A AB.....  |
| MBX               | 27.89         | B ABCDE.....   |
| 901xsac(9 x 7)    | 33.80         | C .BCDEFGHIJKLMNOPQRST.....                              |
| 901xsac(7 x 2)    | 35.64         | D .BCDEFGHIJKLMNOPQRSTUVWXYZ.....                        |
| 901xsac(9 x 2)    | 35.86         | E .BCDEFGHIJKLMNOPQRSTUVWXYZabc.e.....                   |
| 901xsac(8 x 2)x1  | 36.19         | F ..CDEFGHIJKLMNOPQRSTUVWXYZ.....                        |
| 901xsac seg 06/1  | 36.59         | G ..CDEFGHIJKLMNOPQRSTUVWXYZ...e.....                    |
| 901xWA3044        | 36.68         | H ..CDEFGHIJKLMNOPQRSTUVWXYZabc.e.....                   |
| UQL1              | 36.80         | I ..CDEFGHIJKLMNOPQRSTUVWXYZ...e.....                    |
| 901xsac(10 x 1)   | 37.05         | J ..CDEFGHIJKLMNOPQRSTUVWXYZabcdef.....                  |
| 901xWA3048        | 37.10         | K ..CDEFGHIJKLMNOPQRSTUVWXYZabc.e.....                   |
| 54Q53             | 37.40         | L ..CDEFGHIJKLMNOPQRSTUVWXYZab..e.....                   |
| SARDI five        | 37.71         | M ..CDEFGHIJKLMNOPQRSTUVWXYZabcde.....                   |
| Sequel            | 38.02         | N ..CDEFGHIJKLMNOPQRSTUVWXYZabcde.....                   |
| Trifecta          | 38.37         | O ..CDEFGHIJKLMNOPQRSTUVWXYZabcde.....                   |
| 901xsac seg 06/2  | 39.09         | P ..CDEFGHIJKLMNOPQRSTUVWXYZabcdefg.....                 |
| Silverado         | 39.64         | Q ..CDEFGHIJKLMNOPQRSTUVWXYZabcdefghi.....               |
| WISFALxOman 5     | 39.67         | R ..CDEFGHIJKLMNOPQRSTUVWXYZabcdefghi.....               |
| 901xWA3047        | 39.80         | S ..CDEFGHIJKLMNOPQRSTUVWXYZabcdefghi.....               |
| HunterRiver       | 40.25         | T ..CDEFGHIJKLMNOPQRSTUVWXYZabcdefghi.....               |
| SARDI seven       | 40.63         | U ...DEFGHIJKLMNOPQRSTUVWXYZabcdefghi.....               |
| WISFALxOman 2     | 40.93         | V ...DEFGHIJKLMNOPQRSTUVWXYZabcdefghi...n.....           |
| Experimental 5    | 41.10         | W ...DEFGHIJKLMNOPQRSTUVWXYZabcdefghi...n.....           |
| Hallmark          | 41.40         | X ...DEFGHIJKLMNOPQRSTUVWXYZabcdefghijkl.n.....          |
| SuperSequel       | 41.45         | Y ...DEFGHIJKLMNOPQRSTUVWXYZabcdefghijkl.n.....          |
| SARDI ten         | 41.53         | Z ...DEFGHIJKLMNOPQRSTUVWXYZabcdefghijkl.n.....          |
| 901xsac 4⊗        | 42.77         | a ....E..HJKLMNOPQRSTUVWXYZabcdefghijklmnop.....         |
| Experimental 2    | 42.82         | b ....E..HJKLMNOPQRSTUVWXYZabcdefghijklmnop.....         |
| Experimental 6    | 43.11         | c ....E..HJK.MNOPQRSTUVWXYZabcdefghijklmnopq.....        |
| Experimental 1    | 43.38         | d .....J..MNOPQRSTUVWXYZabcdefghijklmnopq.....           |
| 901xOman 8        | 44.05         | e ....E.GHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstu.w..... |
| UQL-12            | 44.09         | f .....J.....PQRSTUVWXYZabcdefghijklmnopqr.t.....        |
| Experimental 3    | 44.70         | g .....PQRSTUVWXYZabcdefghijklmnopqrstu.....             |
| Experimental 4    | 44.91         | h .....QRSTUVWXYZabcdefghijklmnopqrstu.w.....            |
| UQL-13            | 44.98         | i .....QRSTUVWXYZabcdefghijklmnopqrstu.w.....            |
| UQL-11            | 47.24         | j .....XYZabcdefghijklmnopqrstuvw.z.....                 |
| Oman 2xsac(7 x 2) | 47.43         | k .....XYZabcdefghijklmnopqrstuvwxy.....                 |

|                     |       |   |  |
|---------------------|-------|---|--|
| 901x901             | 47.73 | l | .....XYZabcdefghijklmnopqrstuvwxyA.....    |
| Oman 2xsac seg 06/2 | 47.91 | m | .....abcdefghijklmnopqrstuvwxyA.....       |
| Oman 2xsac(9 x 2)   | 48.25 | n | .....VWXYZabcdefghijklmnopqrstuvwxyABC.E.. |
| Oman 2xWA3048       | 49.01 | o | .....abcdefghijklmnopqrstuvwxyABC.E..      |
| Oman 2xsac(10 x 1)  | 49.74 | p | .....abcdefghijklmnopqrstuvwxyABCDE..      |
| Oman 2xWA3047       | 49.90 | q | .....cdefghijklmnopqrstuvwxyABCDE..        |
| Oman 2xWA3044       | 50.06 | r | .....efghijklmnopqrstuvwxyABCDE..          |
| Oman 2xsac seg 06/1 | 50.17 | s | .....e.ghijklmnopqrstuvwxyABCDE..          |
| Oman 2xsac(8x2)x1   | 50.56 | t | .....efghijklmnopqrstuvwxyABCDE..          |
| 901xOman 7          | 50.86 | u | .....e.ghijklmnopqrstuvwxyABCDEFG.         |
| 901xOman 13         | 51.86 | v | .....jklmnopqrstuvwxyABCDEFG.              |
| Oman 2xsac(9 x 7)   | 52.34 | w | .....e.hijklmnopqrstuvwxyABCDEFG           |
| 901xOman 5          | 53.03 | x | .....jklmnopqrstuvwxyABCDEFG               |
| 901xOman 6          | 53.19 | y | .....klmnopqrstuvwxyABCDEFG                |
| 901xOman 9          | 53.31 | z | .....jklmnopqrstuvwxyABCDEFG               |
| Oman 2              | 53.94 | A | .....lmnopqrstuvwxyABCDEFG                 |
| Oman 2xsac 4⊗       | 54.73 | B | .....nopqrstuvwxyABCDEFG                   |
| 901xOman 2          | 55.22 | C | .....nopqrstuvwxyABCDEFG                   |
| 901xOman 3          | 55.64 | D | .....pqrstuvwxyABCDEFG                     |
| 901xOman 10         | 56.34 | E | .....nopqrstuvwxyABCDEFG                   |
| 901xOman 1          | 57.28 | F | .....uvwxyzABCDEFG                         |
| 901xOman 11         | 58.79 | G | .....wxyzABCDEFG                           |

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