**SF Tarlee**
sub clover

**FEATURES**
- Sub species *brachycalycinum* (black seeded)
- Higher seed yields
- Mid-late season flowering
- Good disease tolerance

**BENEFITS**
- Suited to moderately acid-alkaline soils
- Well suited to flood irrigated hay production
- Higher seedling regeneration in years 2 and beyond
- Higher autumn/winter yields from more plants
- High spring and total forage yields
- Well suited to hay production
- Greater yield and seed set

**Better seed regeneration and disease resistance for more feed**
SF Tarlee is a mid-late season sub-clover providing a new and improved replacement for Clare and Antas. It is well adapted to neutral to alkaline soils but will perform well in moderately acidic soils (pHCacl 6.5-8.5). It has improved seed yield and has shown superior performance over those older varieties after the establishment year. This is due to its improved seed yield and disease resistance resulting in higher regeneration levels over other brachycalycinum varieties. It is best suited to areas with approximately 500-775 mm annual average rainfall.

SF Tarlee establishes rapidly like other brachycalycinums. It can be used as for permanent and semi-permanent pastures in neutral to alkaline soils and where soil-cracking is likely over summer. It can be used in cropping rotations or for specialist hay and silage production due to its outstanding first year production.

**Sowing rate**

| Sole species | 5–10kg/ha |
| Pasture mixes | 2–5kg/ha |

**Rainfall 500 - 775mm**

**Australian release**
> 2019

**Stock suitability**
> All livestock types
> Silage & hay

**Forage EBV’s – compared to industry standards**

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>AUTUMN YIELD %</th>
<th>WINTER YIELD %</th>
<th>SPRING YIELD %</th>
<th>TOTAL YIELD %</th>
<th>REGEN BY MID-JUNE % G.COVER</th>
<th>CLOVER SCORCH SUSCEPT. 0-10, 0=BEST</th>
<th>SEED YIELD %</th>
<th>HARD SEEDEDNESS %</th>
<th>DAYS TO FLOWERING</th>
<th>PERTH</th>
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</thead>
<tbody>
<tr>
<td>SF Tarlee</td>
<td>106</td>
<td>124</td>
<td>128</td>
<td>127</td>
<td>52</td>
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<td>143</td>
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<td>Mintaro</td>
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<td>6</td>
<td>109</td>
<td>14</td>
<td>115</td>
<td></td>
</tr>
</tbody>
</table>

* forage and seed yields are relative to control variety Clare = 100
* susceptibility values based on 0 = very resistant, 10 = very susceptible
Forage yield data based on 3 years at 4 sites – Tarlee, SA and Dungowan & Eurongilly, NSW.
Seed yield data based on mean of first year harvest at Shenton Park & Eurongilly.
SF Rossi®
diploid red clover

**FEATURES**
- Diploid red clover
- High first year yield
- Excellent pest and disease resistance

**BENEFITS**
- Lower sowing rate needed per hectare to reduce costs
- Provides yield benefit for areas where red clover may only last one year
- Improved plant density into second year. Provides greater second year yields

**Rev up your pasture legume content**
SF Rossi is a diploid red clover bred by RAGT in Europe. It has good first year production and improved pest and disease resistance to ensure improved second year yield.

**Sowing rate**

<table>
<thead>
<tr>
<th></th>
<th>Sole Species</th>
<th>As sole clover with perennial grass</th>
<th>With perennial grass and other clovers</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RED CLOVER</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SF Rossi</td>
<td>6–10kg/ha</td>
<td>4–6kg/ha</td>
<td>2–3kg/ha</td>
</tr>
<tr>
<td>NZ Red</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>BENEFITS</strong></td>
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<tr>
<td></td>
<td></td>
<td>Lower sowing rate needed per hectare</td>
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<td>to reduce costs</td>
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<td></td>
<td>Provides yield benefit for areas</td>
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<td></td>
<td></td>
<td>where red clover may only last one</td>
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<td>year</td>
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<td>Improved plant density into second</td>
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<td></td>
<td></td>
<td>year. Provides greater second year</td>
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<tr>
<td></td>
<td></td>
<td>yields</td>
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</tr>
</tbody>
</table>

**early maturity**
- Australian release
  - > 2009

**Stock suitability**
- > All livestock types
- > Silage & hay

**Forage EBV’s – compared to industry standards**

<table>
<thead>
<tr>
<th>RED CLOVER</th>
<th>AUTUMN/WINTER YIELD</th>
<th>SPRING/SUMMER YIELD</th>
<th>TOTAL YIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td>SF Rossi</td>
<td>114</td>
<td>112</td>
<td>113</td>
</tr>
<tr>
<td>NZ Red</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
</tbody>
</table>

SF Quest
white clover

FEATURES

• Good seedling vigour
• Early flowering
• Highly autumn/winter active

BENEFITS

• Establishes well in mixed swards. Provides ease of grazing to all livestock
• Provides improved recovery after grazing and persistence
• Suited to inclusion in mixes in both winter and summer dominant rainfall regions and under irrigation

Large leaf
SF Quest is a high yielding large leaf and highly stoloniferous white clover with good persistence under grazing.

It is well suited to sowing in pasture mixes for beef and dairy grazing where white clover will persist.

Forage EBV’s – compared to industry standards*

<table>
<thead>
<tr>
<th>WHITE CLOVER</th>
<th>AUTUMN/WINTER YIELD</th>
<th>SPRING/SUMMER YIELD</th>
<th>TOTAL YIELD</th>
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<tbody>
<tr>
<td>SF Quest</td>
<td>99</td>
<td>96</td>
<td>99</td>
</tr>
<tr>
<td>Haifa</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
</tbody>
</table>

* Source: white clover trial Gundagai 2007–08.

Sowing rate

<table>
<thead>
<tr>
<th></th>
<th>Sole species</th>
<th>As sole clover with perennial grass</th>
<th>With perennial grass and other clovers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6–10kg/ha</td>
<td>2–3kg/ha</td>
<td>1–2kg/ha</td>
</tr>
</tbody>
</table>

early maturity

Australian release > 2009

Stock suitability
> All livestock types
> Silage & hay
Lucerne
The seasonal production of different winter activity lucernes will determine the number of cuts or grazings. High winter activity lucernes can be cut more often than more dormant types due to their more erect habit, faster regrowth and longer growing season. Whilst they will produce more over the cool seasons they may not necessarily produce more than less winter active types over a full 12 month period.

Selection should also ensure good resistance to the major pests and diseases that may be a problem in your growing region.

<table>
<thead>
<tr>
<th>QUESTION</th>
<th>ENTERPRISE</th>
<th>PERSISTENCE</th>
<th>SITUATION</th>
<th>PRODUCTION</th>
<th>RECOMMENDATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHICH LUCERNE?</td>
<td>INTENSIVE LIVESTOCK GRAZING OR INTENSIVE HAY CUTTING</td>
<td>LONG STAND LIFE 8+ YEARS</td>
<td>COOL CLIMATE AREAS</td>
<td>4-5 GRAZINGS /CUTS PER YEAR</td>
<td>SF FORCE 5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MEDIUM STAND LIFE 5–8 YEARS</td>
<td>WARM CLIMATE AREAS</td>
<td>6-7 GRAZINGS /CUTS PER YEAR</td>
<td>SF 714QL SF 730QL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MEDIUM STAND LIFE 5–8 YEARS</td>
<td>WARM WINTERS WET SUMMERS OR IRRIGATION</td>
<td>8+ GRAZINGS /CUTS PER YEAR</td>
<td>SF FORCE 11 SF 914QL</td>
</tr>
<tr>
<td></td>
<td>EXTENSIVE MIXED FARMING</td>
<td>LONG ROTATION 7+ YEARS</td>
<td>MORE FOCUS ON GRAZING OVER WARMER MONTHS</td>
<td>FEED REQUIRED FROM MID-SPRING TO AUTUMN</td>
<td>SF FORCE 5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MEDIUM ROTATION 5–7 YEARS</td>
<td>DUAL PURPOSE GRAZING AND FODDER</td>
<td>FEED REQUIRED FROM EARLY-SPRING TO LATE-AUTUMN</td>
<td>SF FORCE 7 SF FORCE 7-2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SHORT ROTATION 3–5 YEARS</td>
<td>MORE FOCUSED ON CROPPING AND WINTER FATTENING</td>
<td>MAXIMUM FEED REQUIRED OVER WINTER AND SPRING</td>
<td>SF FORCE 11 SF 914QL</td>
</tr>
</tbody>
</table>
SF Force 5
grazing tolerant lucerne

FEATURES
- Grazing tolerance
- Low dense crown high tillering variety
- Good pest and disease resistance

BENEFITS
- Able to withstand extended periods of set stocking. Improves stands persistence for rotations up to 7+ years
- Handles set stocking and high grazing pressure. High leaf to stem ratio for improved hay quality
- Excellent production and quality over an extended period

Performance with persistence
SF Force 5 lucerne was developed for grazing under set stocking by selecting plants that excelled and persisted under two years of set stocking. It has good pest and disease resistance and is the ideal choice where producers are looking to plant lucerne with an expected stand life of 7+ years.

SF Force 5 has a low dense crown and produces high yields of leafy high quality forage with good leaf to stem ratio ideal for grazing or hay. It is best recommended for all livestock, mixed farming or hay producers looking for a persistent lucerne suited to long rotations between cropping phases, and for grazing by sheep or cattle.

Sowing rate
<table>
<thead>
<tr>
<th>Rainfall</th>
<th>Sowing rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;900mm irrigation</td>
<td>10–20kg/ha</td>
</tr>
<tr>
<td>700–850mm rainfall</td>
<td>8–10kg/ha</td>
</tr>
<tr>
<td>600–750mm rainfall</td>
<td>6–8kg/ha</td>
</tr>
<tr>
<td>450–600mm rainfall</td>
<td>4–6kg/ha</td>
</tr>
<tr>
<td>&lt;450mm rainfall</td>
<td>2–4kg/ha</td>
</tr>
</tbody>
</table>

semi winter dormant

Australian release
> 2008

Stock suitability
> Dairy, sheep & beef
> Hay

Forage EBV’s – compared to industry standards*

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>WINTER ACTIVITY</th>
<th>RELATIVE YIELD*</th>
<th>APHIDS</th>
<th>LEAF &amp; STEM DISEASES</th>
<th>NEMATODES</th>
<th>EXTRA VALUE* $/HA/YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>SAA</td>
<td>BGA</td>
<td>PA</td>
<td>PRR</td>
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<tr>
<td>Sardi 5</td>
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<td>89</td>
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<tr>
<td>Stamina 5</td>
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<td>-</td>
<td>R</td>
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<td>SF Force 5</td>
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<td>HR</td>
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<td>L56</td>
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<td>100</td>
<td>HR</td>
<td>HR</td>
<td>-</td>
<td>HR</td>
</tr>
<tr>
<td>Aurora</td>
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<td>100</td>
<td>HR</td>
<td>HR</td>
<td>-</td>
<td>R</td>
</tr>
<tr>
<td>Stamina GT6</td>
<td>6</td>
<td>102</td>
<td>HR</td>
<td>R</td>
<td>-</td>
<td>HR</td>
</tr>
</tbody>
</table>

* based on dryland trials sown Denman & Gundagai 2007, Eurongilly 2011, Warrnambool 2013, Tamworth 2014
* extra value $/ha/year is based on extra yield over 3 year trials at $500/t
SF Force 7
grazing tolerant lucerne

FEATURES

• Grazing tolerance
• Good pest and disease resistance
• Handles medium to low rainfall zones along with high irrigation input systems

BENEFITS

• Able to withstand extended periods of set stocking. Improves stands persistence for rotations up to 5–7 years
• Excellent production and quality over an extended period
• Well suited to mixed farming zone to tolerate long grazing periods. Can also be used in high rainfall or irrigated situations

Set stock your block
SF Force 7 lucerne was developed for grazing under set stocking by selecting plants that excelled and persisted under two years of set stocking.

It has good pest and disease resistance and is the ideal choice where producers are looking to plant lucerne in a rotation for 5–7 years.

SF Force 7 lucerne has been selected for use in the mixed farming belt of Australia. It will tolerate long periods of grazing and enable producers longer stand life than highly winter active types to extend the pasture phase in key farming practices.

Sowing rate

<table>
<thead>
<tr>
<th>Rainfall Zone</th>
<th>Sowing Rate (kg/ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;900mm irrigation</td>
<td>10–20kg/ha</td>
</tr>
<tr>
<td>700–850mm rainfall</td>
<td>8–10kg/ha</td>
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<td>600–750mm rainfall</td>
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</tr>
<tr>
<td>&lt;450mm rainfall</td>
<td>2–4kg/ha</td>
</tr>
</tbody>
</table>

winter active

Australian release
> 2008

Stock suitability
> Dairy, sheep & beef
> Hay

Forage EBV’s – compared to industry standards*

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>WINTER ACTIVITY</th>
<th>RELATIVE YIELD*</th>
<th>APHIDS</th>
<th>LEAF &amp; STEM DISEASES</th>
<th>NEMATODES</th>
<th>EXTRA VALUE*</th>
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<tr>
<td></td>
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<td>SAA</td>
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<td>-</td>
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<td>HR</td>
<td>HR</td>
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<td>Q75</td>
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<td>-</td>
<td>HR</td>
<td>R</td>
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<tr>
<td>Trifecta</td>
<td>7</td>
<td>87</td>
<td>R</td>
<td>HR</td>
<td>-</td>
<td>MR</td>
</tr>
</tbody>
</table>

* based on dryland trials sown Denman & Gundagai 2007, Eurongilly 2011, Warrnambool 2013, Tamworth 2014
* extra value $/ha/year is based on extra yield over 3 year trials at $500/t
SF Force 7-2
dual purpose lucerne

FEATURES

- Very high yielding
- Excellent shoulder activity
- Improved pest & disease resistance
- Improved persistence

BENEFITS

- Suited to in situ grazing
- More cuts or grazing per year
- Maintains high yields under humid conditions
- Longer stand life for a highly winter active variety

General fit

SF Force 7-2 is a new winter activity 7 lucerne from the same breeder as SF Force 7. It is a dual-purpose variety suited to both intensive and extensive livestock production or use as a hay variety. It has improved yield over SF Force 7 and most other activity 7 varieties, and has an excellent pest and disease resistance package.

SF Force 7-2 is an ideal replacement for SF Force 7 and other activity 7 lucerne varieties where more focus is on grazing.

Forage EBV’s – compared to industry standards*

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>MEASURED ACTIVITY</th>
<th>RELATIVE YIELD*</th>
<th>APHIDS</th>
<th>LEAF AND STEM DISEASES</th>
<th>NEMATODES</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<td>SAA</td>
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<tr>
<td>SF Force 7-2</td>
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<td>104</td>
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<td>HR</td>
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<tr>
<td>SF Force 7</td>
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<td>Aurora</td>
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<td>Titan 7</td>
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<td>-</td>
</tr>
<tr>
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<td>93</td>
<td>HR</td>
<td>R</td>
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<td>HR</td>
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</tbody>
</table>

* yield mean 5 trials 2013 Aberdeen, 2014 Tamworth, 2017 Gatton, Shepparton, Forbes (interim)

Sowing rate

<table>
<thead>
<tr>
<th>Rainfall</th>
<th>Sowing rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;900mm irrigation</td>
<td>15–25kg/ha</td>
</tr>
<tr>
<td>750–900mm rainfall</td>
<td>10–15kg/ha</td>
</tr>
<tr>
<td>600–750mm rainfall</td>
<td>6–10kg/ha</td>
</tr>
<tr>
<td>450–600mm rainfall</td>
<td>2–6kg/ha</td>
</tr>
<tr>
<td>&lt;450mm rainfall</td>
<td>2–4kg/ha</td>
</tr>
</tbody>
</table>

Stock suitability

- Dairy, sheep & beef
- Hay

Australian release

> 2019

Winter active
The magnificent 7

SF Force 714QL was selected from a pool of high yielding tri-foliate breeders’ lines showing excellent plant density and high leaf content. It was selected to provide a suitable replacement for WL 414 as a specialist lucerne with excellent colour and quality necessary to target the premium lucerne hay markets.

FEATURES

• High quality specialist hay variety
• Excellent leaf to stem ratio
• High yielding

BENEFITS

• Suits premium hay producers or quality silage
• Improved quality with high leaf content in the bale. Can provide increased hay value
• Provides greater returns per hectare

Sowing rate

<table>
<thead>
<tr>
<th>Rainfall Range</th>
<th>Irrigation Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 900mm</td>
<td>10–20kg/ha</td>
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<td>700–850mm rainfall</td>
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</tr>
<tr>
<td>&lt; 450mm rainfall</td>
<td>2–4kg/ha</td>
</tr>
</tbody>
</table>

The SF 714QL is a specialist hay lucerne variety with high quality and excellent leaf to stem ratio. It is suitable for premium hay producers or quality silage. It offers improved quality with high leaf content in the bale, providing greater returns per hectare.

Forage EBV’s – compared to industry standards

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>WINTER ACTIVITY</th>
<th>RELATIVE YIELD</th>
<th>APHIDS</th>
<th>LEAF &amp; STEM DISEASES</th>
<th>NEMATODES</th>
<th>EXTRA VALUE*</th>
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<td>Aurora</td>
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<td>R</td>
<td>MR</td>
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<td>HR</td>
<td>MR</td>
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<td>Magna 801</td>
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<td>R</td>
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<td>MR</td>
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<tr>
<td>Trifecta</td>
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<td>103</td>
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<td>HR</td>
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<td>Q75</td>
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<td>HR</td>
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<td>L70</td>
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<td>98</td>
<td>HR</td>
<td>HR</td>
<td>R</td>
<td>R</td>
</tr>
</tbody>
</table>

* extra value $/ha/year is based on extra yield over 3 year trials at $500/t
SF 730QL
specialist hay lucerne

FEATURES

• Very high yielding
• Excellent shoulder activity
• Outstanding pest & disease resistance
• Improved persistence

BENEFITS

• Best suited to hay operations
• More cuts or grazing per year
• Maintains high yields under humid conditions
• Longer stand life for a highly winter active variety

General fit

SF 730QL is a new winter active lucerne with excellent leaf to stem ratio and strong persistence. It has an excellent disease package performing well in humid conditions.

It is well suited to both hay producers looking for a winter active variety with excellent shoulder production in late autumn and spring, but where winter cutting is not possible.

It is also well suited to livestock producers wanting good all year-round production from an activity 7 lucerne with improved persistence.

SF 730QL is an ideal replacement for most other activity 7 lucerne varieties where hay quality is important.

Sowing rate

<table>
<thead>
<tr>
<th>Rainfall</th>
<th>Sowing Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;900mm irrigation</td>
<td>15-25kg/ha</td>
</tr>
<tr>
<td>750–900mm rainfall</td>
<td>10-15kg/ha</td>
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<tr>
<td>600–750mm rainfall</td>
<td>6-10kg/ha</td>
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<tr>
<td>450–600mm rainfall</td>
<td>2-6kg/ha</td>
</tr>
<tr>
<td>&lt;450mm rainfall</td>
<td>2–4kg/ha</td>
</tr>
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</table>

Forage EBV’s – compared to industry standards*

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>MEASURED ACTIVITY</th>
<th>RELATIVE YIELD*</th>
<th>APHID RESISTANCE</th>
<th>LEAF &amp; STEM DISEASE RESISTANCE</th>
<th>NEMATODES</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>SAA</td>
<td>BGA</td>
<td>PA</td>
</tr>
<tr>
<td>SF 730QL</td>
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<td>109</td>
<td>HR</td>
<td>HR</td>
<td>HR</td>
</tr>
<tr>
<td>SF 714QL</td>
<td>7/8</td>
<td>105</td>
<td>HR</td>
<td>HR</td>
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<tr>
<td>Aurora</td>
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<td>100</td>
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<tr>
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<tr>
<td>Titan 7</td>
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<td>7</td>
<td>87</td>
<td>R</td>
<td>HR</td>
<td>-</td>
</tr>
</tbody>
</table>

* yield mean 5 trials 2013 Aberdeen, 2014 Tamworth, 2017 Gatton, Shepparton, Forbes (interim)
SF 914QL

dual purpose lucerne

FEATURES

• Very high yielding
• Increased winter activity
• Improved persistence

BENEFITS

• Suited to in situ grazing
• More cuts or grazing per year
• Longer stand life for a highly winter active variety

The new 9 for your block

SF 914QL is a new highly winter active lucerne. It comes from the same breeder as SF714QL, but was selected for increased winter activity with similar high leaf to stem ratio and improved persistence over many older activity 9 and 10 varieties.

It is well suited to both hay producers looking for an extra one or two cuts per year, or for livestock producers wanting more winter production in a highly winter active lucerne with improved persistence.

SF914QL is an ideal replacement for SF Force 10 and other activity 9 or 10 lucerne varieties.

Forage EBV’s – compared to industry standards

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>WINTER ACTIVITY</th>
<th>RELATIVE YIELD*</th>
<th>APHIDS</th>
<th>LEAF &amp; STEM DISEASES</th>
<th>NEMATODES</th>
<th>EXTRA VALUE* $/HA/YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>SAA</td>
<td>BGA</td>
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<td>Magna 801</td>
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<td>MR</td>
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<td>HR</td>
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<td>HR</td>
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<td>99</td>
<td>R</td>
<td>R</td>
<td>MR</td>
<td>R</td>
</tr>
</tbody>
</table>

* extra value $/ha/year is based on extra yield over 3 year trials at $500/t
SF Force 11
highly winter active lucerne

FEATURES

- Most winter active variety
- High winter yields
- Good pest and disease resistance
- High total yields

Sowing rate

<table>
<thead>
<tr>
<th>Rainfall</th>
<th>Sowing Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;900mm irrigation</td>
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<td>4–6kg/ha</td>
</tr>
<tr>
<td>&lt;450mm rainfall</td>
<td>2–4kg/ha</td>
</tr>
</tbody>
</table>

BENEFITS

- Provides more feed when it is needed most
- Suited to cutting for premium fresh hay price over winter
- Maintains plant survival for improved density
- Will out-perform more dormant types in areas where lucerne is used for cutting or grazing over winter. Enables higher quality conserved fodder which will provide more meat and milk per hectare

Maximum winter feed

SF Force 11 is a new lucerne with exceptional winter activity. It has an excellent pest and disease package and is a major step forward for winter production from lucerne. It is well suited to short phase dryland farming systems and especially intensive cutting or grazing under irrigation. It can enable higher yields of premium lucerne at a time of year when fresh hay commands a premium price. For specialist hay production sow highly winter active types at higher rates to improve stand density and ensure finer stems.

Stock suitability

> Dairy, sheep & beef
> Silage & hay

Forage EBV’s – compared to industry standards

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>WINTER ACTIVITY</th>
<th>RELATIVE YIELD*</th>
<th>APHIDS</th>
<th>LEAF &amp; STEM DISEASES</th>
<th>NEMATODES</th>
<th>EXTRA VALUE* $/HA/YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aurora</td>
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<td>100</td>
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<td>HR</td>
<td>R</td>
<td>MR LR R $0</td>
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<tr>
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<td>108</td>
<td>HR</td>
<td>R</td>
<td>MR R R R</td>
<td>R $0 $653</td>
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<td>Silverado</td>
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<td>102</td>
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<td>HR</td>
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<td>- MR $186</td>
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<td>HR</td>
<td>HR</td>
<td>HR HR LR HR HR HR</td>
<td>$1,021</td>
</tr>
</tbody>
</table>

* extra value $/ha/year is based on extra yield over 3 year trials at $500/t
Lucerne management

Preparation
>
> Ensure paddock is suitable to sow lucerne.
> Take a soil test well in advance to check for appropriate nutrient status, and address any deficiencies before sowing.
  - pH (CaCl\(_2\)) 5.0–8.0
  - Ca:Mg > 2:1
  - Aluminium <15mg/kg
  - Water salinity < 2.4dS/m
  - Sodium <6%
  - Soil salinity < 2.0dS/m
> Apply lime to increase soil pH
> Apply gypsum to improve soil structure and/or supply sulphur.
> Create a fine, firm seedbed, free of clods.
> Control all existing weeds prior to or during seedbed preparation.
> Apply pre-emergent herbicide to prevent germinations of wireweed or annual ryegrass.

Sowing
>
> Lucerne is ideally sown from late April through to late August, but can be sown later in high rainfall or irrigated regions.
> It is suited to undersowing cereal or pulse crops in broadacre regions.
> Ensure seed is inoculated with Group AL inoculant, and use fungicide to control Pythium, Rhizoctonia, Phytophthera and Fusarium. We recommend the use of a fungicide or Force Field PLUS treated seed.
> Lucerne seed should be shallow sown either drilled close to the surface or dropped onto the soil.
> It should be covered with a roller or a very light covering chain or mesh.
> For best results consider cross sowing at half rates each way with a band seeder.

Management post sowing
>
> Either apply a residual insecticide immediately post sowing, or monitor closely at emergence for lucerne flea or Red-Legged Earth Mite and control promptly.
> Check stand for weeds and select the appropriate herbicide for earliest possible weed control.

Cutting or grazing
>
> Lucerne stands should be allowed to commence flowering before first cutting or grazing.
> After the initial cut, stands should be grazed just prior to flowering, when new shoots at the base of the plant reach about 20–50mm in length. This should be about every 21–28 days for highly winter active lucernes, 35–42 days for more dormant types, but will depend on moisture and temperature.
> Cutting or grazing at that time will provide the best compromise between yield and quality.
> When cutting, set cutter bar about 5cm above crown of plant to minimise crown damage.
> Dry lucerne down to 17–18% dry matter as quickly as possible to reduce quality losses.
> Avoid physical machinery damage under dry conditions to reduce quality leaf losses.
> Cattle do not graze lucerne as closely as sheep and do not require as strict rotational grazing.
> Avoid set stocking for long periods, and allow lucerne to flower when the opportunity arises to replenish root reserves. Spell paddocks when lucerne is under stress.
> Bloat risks in cattle can be managed. The high risk period is when lucerne is fresh and lush or when stand is immature (has not flowered). Risks can be managed by using sheep in high risk periods, using bloat capsules, anti-bloating agents, or sowing grass with lucerne for grazing.
Lucerne pest & disease guide

Major lucerne pests & diseases

<table>
<thead>
<tr>
<th>Code</th>
<th>Pest/Disease</th>
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<tbody>
<tr>
<td>SAA</td>
<td>SPOTTED ALFALFA APHID</td>
</tr>
<tr>
<td>BGA</td>
<td>BLUE GREEN APHID</td>
</tr>
<tr>
<td>PA</td>
<td>PEA APHID</td>
</tr>
<tr>
<td>PRR</td>
<td>PHYTOPHTHORA ROOT ROT</td>
</tr>
<tr>
<td>CCR</td>
<td>COLITOTRICUM CROWN ROT</td>
</tr>
<tr>
<td>BW</td>
<td>BACTERIAL WILT</td>
</tr>
<tr>
<td>FW</td>
<td>FUSARIUM WILT</td>
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<tr>
<td>SN</td>
<td>STEM NEMATODE</td>
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</table>

Lucerne resistance ratings

<table>
<thead>
<tr>
<th>Code</th>
<th>Resistance Level</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>LR</td>
<td>Low Resistance</td>
<td>6–14%</td>
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<tr>
<td>MR</td>
<td>Moderate Resistance</td>
<td>15–30%</td>
</tr>
<tr>
<td>R</td>
<td>Resistance</td>
<td>31–50%</td>
</tr>
<tr>
<td>HR</td>
<td>High Resistance</td>
<td>&gt;50%</td>
</tr>
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</table>
SF Punter®
chicory

FEATURES
- Excellent quality feed
- Low dense crown high tillering variety
- Persistent medium-term option

BENEFITS
- Suited to mixes for 3–5 years. Can regenerate from seed to thicken up in sward
- Better establishment and year round feed. Ideal companion species to pastures mixes
- Suited to mixes for 3–5 years. Can regenerate from seed to thicken up in sward

Don’t take a punt on any old chicory
SF Punter is a deep rooted perennial herb providing outstanding summer productivity and feed quality. It has high mineral uptake and is extremely persistent.
It provides a high energy forage with proven animal health benefits and increased animal production at a time of year when pasture quality is low.
Being more winter active than some varieties, SF Punter can be sown at any time when there is adequate moisture for good germination and establishment.

Forage EBV’s – compared to industry standards*

<table>
<thead>
<tr>
<th>CULTIVAR</th>
<th>AUTUMN</th>
<th>WINTER</th>
<th>SPRING</th>
<th>SUMMER</th>
<th>TOTAL</th>
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<tbody>
<tr>
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<td>123</td>
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<td>Puna</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
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</tbody>
</table>


Sowing rate
- Sole species: 4–5kg/ha
- Pasture mixes: 1–2kg/ha

highly winter active

Australian release
> 2006

Stock suitability
> All livestock types
SF Endurance
plantain

FEATURES

• Mid season maturity
• All season growth
• Frost tolerant

BENEFITS

• Suited to a broader range of environments
• Fills more than one feed gap
• Will still grow feed in extreme winter cold

Feed for all seasons

SF Endurance is a new forage plantain with improved feed production across all seasons. Plantain is a drought hardy deep rooted perennial herb well adapted to low fertility soils. Existing varieties have either been winter active and early flowering or summer active and late flowering. SF Endurance provides similar winter feed to Tonic, but with improved warm season production. It is ideal for pasture mixes where producers are looking for a contribution from plantain across all seasons.

Forage EBV’s – compared to industry standards*

<table>
<thead>
<tr>
<th>PLANTAIN</th>
<th>AUTUMN</th>
<th>WINTER</th>
<th>SPRING</th>
<th>SUMMER</th>
<th>TOTAL</th>
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* Data based on yields from Tenterfield trial 2011-2013.

Sowing rate

<table>
<thead>
<tr>
<th></th>
<th>Sole species</th>
<th>pasture mixes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4–5kg/ha</td>
<td>1–2kg/ha</td>
</tr>
</tbody>
</table>

mid - late maturity

Australian release > 2011

Stock suitability > All livestock types
SF Brigadier®

fodder beet

FEATURES

- High sugar feed option
- Very high potential yields
- Good weed and pest rotational crop

BENEFITS

- Very good palatability for all livestock classes
- Can yield up to 20–40t DM/ha. Profitable crop option
- Sound option to avoid Diamondback moth problems

High yields were never this sweet

SF Brigadier is a traditional polyplloid, mangel type fodder beet with orange bulbs. The bulb sits high up out of the soil and is ideal for grazing in-situ by all livestock classes, and its high sugar level makes it very palatable.

Fodder beet is a well known crop, but with new genetics and better management practices it is gaining rapid interest for its ability to produce very high yields of high quality forage. It is typically sown in spring using specialist seeders and has a 4–6 month growing period.

SF Brigadier offers new genetic potential and is capable of producing 20–40t DM/ha for late autumn and winter grazing. It is not a brassica but a member of the beet family and offers the opportunity to break the traditional weed and pest cycle of brassicas, particularly for Diamondback moth.

You should seek specialist advice from Seed Force if considering growing this exciting crop.

Forage EBV’s – compared to industry standards

<table>
<thead>
<tr>
<th>FODDER BEET</th>
<th>SOWING RATES ALONE</th>
<th>MATURITY</th>
<th>GRAZINGS</th>
<th>ME MJ/KG DM</th>
<th>CRUDE PROTEIN</th>
<th>YIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td>SF Brigadier</td>
<td>80–100,000</td>
<td>16–26 weeks</td>
<td>Single</td>
<td>12.5–13.5</td>
<td>6–8%</td>
<td>Up to 40t</td>
</tr>
</tbody>
</table>

Sowing rate

80–100,000 seeds/ha

16–26 weeks after sowing

Australian release

> 2008

Stock suitability

> All livestock types

AGENCY

25% in the ground

50% in the ground

75% in the ground

Stock suitability

> All livestock types
SF Suga®
sugar beet

FEATURES
• Very high yielding
• Suited to in-situ grazing
• High dry matter bulbs

BENEFITS
• Well suited to mechanical harvesting
• Genetic monogerm hybrid
• Good seedling vigour

SF Suga is the latest technology in sugar beet. It has high dry matter - 23-26%, making it a high yielding option for mechanical harvest. This high DM% helps prolong storage ability.

SF Lifta®
 fodder beet

FEATURES
• Very high yielding
• Suited to in-situ grazing
• High dry matter bulbs

BENEFITS
• Well suited to mechanical harvesting
• Genetic monogerm hybrid
• Good seedling vigour

SF Lifta is a versatile hybrid fodder beet with high dry matter - 17-19%. It offers grower’s the ability to graze in-situ or mechanical harvest for storage and feeding. It has excellent leaf disease resistance to powdery mildew and rust.

Sowing rate
80–100,000 seeds/ha
16–26 weeks after sowing

Stock suitability
> All livestock types

Australian release
> 2014

Sowing rate
100,000–120,000 seeds/ha
16–26 weeks after sowing

Stock suitability
> All livestock types

Australian release
> 2015
Pasture blends

Seed Force now has a range of ready-to-sow pasture blends ideally suited to maximise livestock performance.

**Perennial pasture blends**

**Dairy ryegrass blend**
* Sowing rate 25kg/ha
* This blend contains diploid and tetraploid mid-late flowering perennial ryegrass varieties and of white clover can ensure good N fixation for grass production, and can improve nutritional balance

**Sheep/beef dryland ryegrass blend**
* Sowing rate 25kg/ha
* This blend contains the new generation perennial ryegrass SF Hustle, soft-leaf cocksfoot and highly winter-active SF Jeromimo prairie grass. plus new red-legged earth-mite tolerant sub-clovers to enable long term regeneration of the legume base in this mix.

**Tall fescue blend**
* Sowing rate 25kg/ha
* This blend contains 2 outstanding tall fescue varieties blended with SF Punter chicory plus white and red clover to improve nutritional balance.

**Soft-leaf cocksfoot blend**
* Sowing rate 25kg/ha
* This blend combines the highly palatable SF Lazuly soft-leaf cocksfoot and highly winter-active SF Jeromimo prairie grass. with new legumes to maintain a good Nitrogen base in this mix.

**Hardy phalaris blend**
* Sowing rate 12.5kg/ha
* This blend contains the top performing SF Maté phalaris with two new red-legged earth-mite tolerant sub-clovers plus a waterlogging tolerant sub-clover with varying maturities to ensure long term regeneration of the legume base in this mix.

**Specialist equine blend**
* Sowing rate 25kg/ha
* This blend contains a blend of grasses safe for grazing by horses with a low level of pasture legume base in this mix.

**Short term blends**

**SF Tri-oomph – 3-way blend**
* Sowing rate 50kg/ha
* This popular blend of rust resistant oats and ryegrass plus leafy turnip can deliver highest winter feed, nutritional balance and spring feed for either grazing or conserving as fodder

**SF Tri-oomph AT - acid soil tolerant 3-way blend**
* Sowing rate 50kg/ha
* A new blend to handle acid soils with high aluminium levels where SF Empire oats are replaced by SF BolT triticale.

**Graze “N” Bale EARLY**
* Sowing rate 25kg/ha
* This blend of annual ryegrass, shaftal & balansa clover has been popular in areas looking for quick winter feed and a cut of silage of hay with a balance of grass and clover.

**Graze “N” Bale LATE**
* Sowing rate 25kg/ha
* This blend of late flowering ryegrasses and shaftal clover has been popular in areas looking for quick winter feed and two cuts of silage/hay with a balance of grass and clover.

**Medium term blend**

**Herbaceous grazing blend**
* Sowing rate 12.5kg/ha
* This blend provides an outstanding all year-round, high quality grazing blend of legumes and herbs.

For further information about these mixes, check the seed Force website or request a copy of the Pasture blends brochure.
Grazing cereals
SF Colossus
forage oat

**FEATURES**
- Rapid establishment
- Medium seed size
- Mid-late maturity

**BENEFITS**
- Faster to first grazing with more winter feed
- Slightly lower sowing rate
- Maintains quality for conserved fodder

**Bulk winter feed faster**
SF Colossus is a mid-late flowering forage oat with suitability to grazing and high quality hay. It has medium seed size enabling slightly lower seeding rate than larger seeded varieties, and a heavier seeding rate than Saia oats. It has rapid establishment with wide leaves and tillers well. It is best suited to early grazing as this will encourage tillering and prevent lodging if locked up as a hay or grain crop.

SF Colossus is mid-late flowering and in local trials has shown to be about 3 weeks later flowering than Wintaroo and 4 weeks later than Swan oats. Its late maturity makes it ideally suited to cutting for hay or mixing with other species for specialist use.

**Sowing rate**
- Autumn 75–80kg/ha
- Winter 80–100kg/ha

**Stock suitability**
> All livestock types

**Australian release**
> 2011

**mid - late maturity**
SF Tucana
forage oat

FEATURES
• Multi-grazing variety
• High yielding
• Late flowering
• Large broad leaf

BENEFITS
• Can provide increased grazing returns
• For either increased grazing or hay production
• Suitable for producing high quality
• Improves quality and overall yield

Leafy oat for grazing, hay & silage
SF Tucana is a mid-late flowering forage oat suitable for multiple grazings and lock up for high yields of high quality hay. It is about 7 days later flowering than SF Colossus and better suited to mixing with forage legumes such as clovers or vetch to increase hay quality.

Sowing rate
80–100kg/ha

mid - late maturity

Australian release
> 2014

Stock suitability
> All livestock types
SF Empire®
forage oat

FEATURES

• Warm start capability
• Strong initial growth
• Improved resistance to leaf rust
• Late maturity
• Fine leaves

BENEFITS

• Earlier planting opportunity
• Faster winter feed
• Improved palatability & better quality feed
• Longer growing season & better quality hay
• Handles dry conditions better

Improved resistance to leaf rust

SF Empire is a new mid-late flowering forage oat with improved resistance to leaf rust. It is an erect type oat with good tillering ability, and a proportion of thinner tillers which assists in recovery after cutting or grazing. SF Empire has good warm soil tolerance and can be planted early (late summer/early autumn) particularly in areas that receive good summer rain.

Being late flowering it can be grazed over an extended period and will make better hay or silage than earlier flowering types.

Forage EBV’s – compared to industry standards®

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>DALBY 2015 T/HA</th>
<th>% TAIPAN</th>
<th>GATTON 2015 T/HA</th>
<th>% TAIPAN</th>
<th>ROMA 2015 T/HA</th>
<th>% TAIPAN</th>
<th>GLOUCESTER 2015 T/HA</th>
<th>% TAIPAN</th>
<th>MURWILUMBAH 2016 T/HA</th>
<th>% TAIPAN</th>
<th>MEAN T/HA</th>
<th>% TAIPAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>SF Empire</td>
<td>6.4</td>
<td>91</td>
<td>9.06</td>
<td>104</td>
<td>3.95</td>
<td>109</td>
<td>10.29</td>
<td>120</td>
<td>3.35</td>
<td>124</td>
<td>7.43</td>
<td>110</td>
</tr>
<tr>
<td>Taipan</td>
<td>7.1</td>
<td>100</td>
<td>8.68</td>
<td>100</td>
<td>3.64</td>
<td>100</td>
<td>8.6</td>
<td>100</td>
<td>2.7</td>
<td>100</td>
<td>7.01</td>
<td>100</td>
</tr>
<tr>
<td>Aladdin</td>
<td>7.5</td>
<td>106</td>
<td>11.83</td>
<td>136</td>
<td>4.32</td>
<td>119</td>
<td>8.32</td>
<td>97</td>
<td>3.43</td>
<td>127</td>
<td>7.99</td>
<td>117</td>
</tr>
</tbody>
</table>

Sowing rate

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>northern (dry winters)</td>
<td>50–80kg/ha</td>
<td></td>
</tr>
<tr>
<td>southern (wet winters)</td>
<td>80–100kg/ha</td>
<td></td>
</tr>
</tbody>
</table>

late flowering

Australian release
> 2016

Stock suitability
> All livestock types
SF Bolt®
forage triticale

FEATURES
• Unique double haploid breeding technology
• Good rust resistance
• Lower NDF % and higher ME grain
• Good lodging tolerance

BENEFITS
• Uniform crop maturity for ease of harvest
• Reduced need for expensive fungicides
• Greater intake with more energy for milk
• Easier harvesting with less wastage

Dual purpose forage cereal
SF Bolt is a new forage triticale that can be autumn or spring sown, ideally suited for green chop or whole crop cereal silage. It is the latest in forage triticale technology using unique double haploid breeding, it is unsurpassed in crop uniformity. This provides the benefit of all plants maturing at a similar time, therefore enhancing ease of harvest and enabling consistent yields across the paddock.

SF Bolt has very good resistance to rust and other diseases potentially reducing the use of expensive fungicides that other older varieties may require. It offers the typical characteristics of a high production forage triticale with very good metabolisable energy and carbohydrate levels.

Sowing rate
120–150kg/ha

mid-season maturity

Australian release
> 2013

Stock suitability
> All livestock types
## SF Moskito

forage wheat

### FEATURES

- Winter type
- Strong recovery after grazing
- Awnless variety
- Late maturity

### BENEFITS

- Earlier planting opportunity
- More grazing potential
- Improved palatability when conserved as silage
- Ideal for whole crop silage
- Longer growing season and better quality hay

### For grazing and fodder conservation

SF Moskito is a new winter wheat specifically selected for grazing and fodder conservation. It is an awnless variety with good tillering ability and more prostrate habit and will be more palatable than awned varieties when made into silage.

SF Moskito has good feed quality and can be planted early (late summer/early autumn) particularly in areas that receive early autumn rain or have irrigation.

Being a winter type, it requires cold vernalisation, so will not flower from early plantings like spring wheats.

It is ideally suited to conserving as whole crop silage at milky dough stage of crop.

### Sowing rate

80–100kg/ha

### late flowering

### Australian release

> 2017

### Stock suitability

> All livestock types
Forage sorghum
Forage sorghum selection

The term forage sorghum covers a range of C4 summer forages including sudan grass, sorghum x sudan crosses, sorghum x sweet sorghum and sweet sorghum x sweet sorghum types. These hybrids can also have crosses involving BMR (brown mid rib) genes improving feed quality. Each of these has specific traits making them better suited to different on farm uses.

The selection guide below is included to help you select the most appropriate option for your situation.

You should also be aware that whilst they are included as forage sorghums, sudangrass is more susceptible to Atrazine damage which is excluded from most herbicide labels. If grass weeds are a problem, then you should use a seed safener such as Concep II®, which can be used on all forage sorghum types. This can then enable the use of either Dual Gold® or Primextra Gold®.

Forage sorghum selection guide

<table>
<thead>
<tr>
<th>DECISION CRITERIA</th>
<th>BEST TYPE</th>
<th>PREFERRED OPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Focus on rotational grazing, highest quality for milking or liveweight gain</td>
<td>BMR Sudangrass</td>
<td>SF Beamer</td>
</tr>
<tr>
<td>Quickest feed to first grazing. Dual purpose grazing or hay cuts</td>
<td>sorghum x sudan</td>
<td>SF Flourish SF Lavish</td>
</tr>
<tr>
<td>Higher quality option. Quickest feed to first grazing.</td>
<td>BMR sorghum x sudan</td>
<td>SF Mustang</td>
</tr>
<tr>
<td>Deferred grazing or hay production. Ultra-late flowering to maintain quality 1-2 cuts</td>
<td>Photo-Period Sensitive sorghum x sudan</td>
<td>SF Splendour</td>
</tr>
</tbody>
</table>
SF Beamer®
BMR Sudangrass

FEATURES
- Superior forage quality
- Sudangrass x sudangrass
- Earlier grazing opportunity
- Fast recovery

BENEFITS
- Increased intake for greater animal performance
- Reduced prussic acid risk
- Can be grazed at 500–600mm
- Can be re-grazed faster

Focus on high quality
SF Beamer has finer stems, narrow leaf blades, tillers profusely and re-grows rapidly after harvest compared to forage sorghums.

It can be sown when soil temperatures reach 18°C and are rising. The time to first grazing will depend upon soil temperatures. A stubble of about 100mm is recommended after cutting or grazing to promote vigorous re-growth and profuse tillering of the next crop.

We recommend SF Beamer where the focus is on high quality grazing and fast recovery between grazings.

Sowing rate
- Dryland: 10–15kg/ha
- Irrigated: 25–30kg/ha

early flowering

Australian release
> 2014

Stock suitability
> Dairy, sheep & beef

Forage EBV’s – compared to industry standards

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>YIELD KG DM/HA</th>
<th>NDF 0.5M</th>
<th>NDF 1.0M</th>
<th>NDF 1.5M</th>
<th>ME 0.5M</th>
<th>ME 1.0M</th>
<th>ME 1.5M</th>
<th>CP 0.5M</th>
<th>CP 1.0M</th>
<th>CP 1.5M</th>
</tr>
</thead>
<tbody>
<tr>
<td>sudan grass</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SF Beamer BMR</td>
<td>12,119</td>
<td>41</td>
<td>55</td>
<td>60</td>
<td>12.4</td>
<td>10.4</td>
<td>9.7</td>
<td>25.3</td>
<td>20.4</td>
<td>19.0</td>
</tr>
<tr>
<td>Superdan 2</td>
<td>11,577</td>
<td>44</td>
<td>60</td>
<td>63</td>
<td>11.9</td>
<td>9.8</td>
<td>9.2</td>
<td>24.2</td>
<td>19.1</td>
<td>16.2</td>
</tr>
<tr>
<td>SSS</td>
<td>11,254</td>
<td>45</td>
<td>60</td>
<td>60</td>
<td>12.0</td>
<td>9.8</td>
<td>9.8</td>
<td>24.8</td>
<td>18.1</td>
<td>18.0</td>
</tr>
<tr>
<td>Nudan</td>
<td>10,094</td>
<td>46</td>
<td>65</td>
<td>68</td>
<td>11.9</td>
<td>9.0</td>
<td>8.5</td>
<td>24.2</td>
<td>15.9</td>
<td>15.5</td>
</tr>
<tr>
<td>millet</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Siberian</td>
<td>4,228</td>
<td>47</td>
<td>66</td>
<td></td>
<td>11.6</td>
<td>8.8</td>
<td></td>
<td>24.9</td>
<td>15.3</td>
<td></td>
</tr>
</tbody>
</table>

* based on data from trial at Murwillumbah 2015/16
* Quality data from NSW DPI Feed Analysis Service based on different cutting heights
SF Flourish®
forage sorghum

FEATURES

- Hybrid Sorghum X Sudan
- Fine stemmed and leafy
- Excellent regrowth & drought tolerance
- Works well as a multi-cut hay or hay and silage

BENEFITS

- Low prussic acid risk
- Improved feed quality
- Outstanding animal performance
- Flexible stand management

Fast first feed and multiple harvests

SF Flourish is an excellent value forage sorghum option ideally suited to fast first feed and multiple harvests. It should be grazed from 60–100cm in height to maximise forage quality, but can be conserved as hay, but with lower feed value.

Higher sowing rates will maximise yield and improve quality through production of finer stems. suited to hay or grazing by sheep, beef or dairy cattle.

It will need to be fed with adequate nutrition based on a soil test. We recommend sowing with an N/P based starter fertiliser and regular topdressing after grazings with Nitrogen and some Potassium.

Being a sorghum by sudan, grass weeds can be controlled with Atrazine without the need for a seed safener.

For difficult grass and broadleaf weed problems, you can use a seed safener such as Concep II® to enable the use of Dual Gold® or Primextra Gold®.

Sowing rate

<table>
<thead>
<tr>
<th></th>
<th>Dryland</th>
<th>Irrigated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8–12kg/ha</td>
<td>20–25kg/ha</td>
</tr>
</tbody>
</table>

early flowering

Australian release

> 2015

Stock suitability

> All livestock types
> Silage & hay

Forage EBV’s – compared to industry standards

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>YIELD KG DM/H</th>
<th>NDF</th>
<th>ME</th>
<th>C P</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.5M</td>
<td>1.0M</td>
<td>1.5M</td>
<td>0.5M</td>
</tr>
<tr>
<td>sudan grass</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SF Flourish</td>
<td>10,417</td>
<td>48</td>
<td>61</td>
<td>58</td>
</tr>
<tr>
<td>BMR Revolution</td>
<td>10,583</td>
<td>45</td>
<td>57</td>
<td>64</td>
</tr>
<tr>
<td>Boost</td>
<td>10,576</td>
<td>47</td>
<td>62</td>
<td>59</td>
</tr>
<tr>
<td>Octane BMR</td>
<td>8,497</td>
<td>49</td>
<td>54</td>
<td>64</td>
</tr>
<tr>
<td>millet</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Siberian</td>
<td>4,228</td>
<td>47</td>
<td>66</td>
<td>11.6</td>
</tr>
</tbody>
</table>

* based on data from trial at Murwillumbah 2015/16
* Quality data from NSW DPI Feed Analysis Service based on different cutting heights
SF Lavish®
hybrid forage sorghum x sudan

FEATURES
• Excellent seedling vigour for fast initial feed
• Fine stemmed for good feed quality
• High leaf to stem ratio
• Strong re-growth after cutting or grazing
• Suited to grazing, silage or hay production

BENEFITS
• Fast to establish
• Improved feed quality
• Suited to multiple cutting/grazing
• Low prussic acid risk

Quick establishment and multiple harvests
SF Lavish is a new hybrid sorghum x sudan grass option ideally suited to quick establishment and multiple harvests. It should be grazed from 60–100cm in height to maximise forage quality, but can be conserved as hay, but with lower feed value than silage.

More frequent grazings or cutting will maximise yield and improve quality through grazing by sheep, beef or dairy cattle.

It will need to be fed with adequate nutrition based on a soil test. We recommend sowing with an N/P based starter fertiliser and regular topdressing after grazings with Nitrogen and some Potassium. Being a sorghum by sudan, grass weeds can be controlled with Atrazine without the need for a seed safener.

For difficult grass and broadleaf weed problems, you can use a seed safener such as Concep II® to enable the use of Dual Gold® or Primextra Gold®.

Sowing rate
<table>
<thead>
<tr>
<th></th>
<th>Dryland</th>
<th>Irrigated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8–12kg/ha</td>
<td>15–25kg/ha</td>
</tr>
</tbody>
</table>

Australian release
> 2018

Stock suitability
> All livestock types
> Silage & hay
SF Mustang®
BMR hybrid forage sorghum x sudan

**FEATURES**
- Mid maturity hybrid sorghum X sudan
- BMR 12 gene
- Fine stemmed and leafy
- Excellent regrowth & drought tolerance
- Works well as a multi-cut hay or silage

**BENEFITS**
- Low prussic acid risk
- Reduced lignin, for higher feed quality
- Improved feed quality
- Outstanding animal performance
- Flexible stand management faster

**General fit**
SF Mustang is a new high-quality forage sorghum option ideally suited to fast first feed and multiple harvests. It should be grazed from 60–100cm in height to maximise forage quality, but being a BMR type it will have lower lignin and higher quality than conventional forage sorghums of similar mid maturity.
Higher sowing rates will maximise yield and improve quality through production of finer stems. Suited to hay or grazing by sheep, beef or dairy cattle.
We recommend cutting regularly before 1.0m to maximise ME/ha and profitability when feeding to livestock.

**Sowing rate**

<table>
<thead>
<tr>
<th>Condition</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dryland</td>
<td>8–12kg/ha</td>
</tr>
<tr>
<td>Irrigated</td>
<td>20–25kg/ha</td>
</tr>
</tbody>
</table>

**Australian release**
> 2017

**Stock suitability**
> All livestock types
> Silage & hay
SF Splendour®
ultra-late PPS forage sorghum

**FEATURES**
- Hybrid Sorghum X Sudan
- Ultra-late flowering
- Fine stemmed and leafy
- Good drought tolerance
- Works well as a multi-cut hay or hay and silage

**BENEFITS**
- Low prussic acid risk
- Improved feed quality over early varieties
- Ideal as stand-over feed for grazing or cutting
- Improved feed quality
- Efficient water use efficiency
- Flexible stand management

**Ideal as a stand over feed for grazing**
SF Splendour is an ultra-late Photo Period Sensitive (PPS) hybrid sorghum x sudangrass. It can be grazed or held over as standing feed or hay and will not run to head like the early maturing varieties on the market. The plant will not enter the reproductive stage until there is less than 12 hours and 20 minutes sunlight which takes it out well into autumn. It will need to be fed with adequate nutrition based on a soil test. We recommend sowing with an N/P based starter fertiliser and regular topdressing after grazings with Nitrogen and some Potassium. Being a sorghum by sudan, grass weeds can be controlled with Atrazine without the need for a seed safener. For difficult grass and broadleaf weed problems, you can use a seed safener such as Concep II® to enable the use of Dual Gold® or Primextra Gold®.

**Sowing rate**
- **Dryland**: 8–12kg/ha
- **Irrigated**: 20–25kg/ha

**Australian release**
> 2016

**Stock suitability**
> All livestock types
> Silage & hay
Forage sorghum is more water use efficient than millet and can provide consistent yields even under limited dryland rainfall situations. Results from dryland trials at Gundagai highlight the significant yield advantage of forage sorghum over millet from the same moisture.

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>YIELD t DM/ha</th>
<th>MILLET %</th>
</tr>
</thead>
<tbody>
<tr>
<td>SF Green Bank</td>
<td>11.677</td>
<td>229</td>
</tr>
<tr>
<td>Shirohie millet</td>
<td>5.094</td>
<td>100</td>
</tr>
</tbody>
</table>

**Efficiency and profitability.**

In 2008/09 Seed Force set up a split paddock trial to examine the efficiency millet vs forage sorghum under both irrigation and dryland. Whilst most producers and advisors would examine the relative costs of feed and opt for millet, the superior WUE of sorghum showed higher profitability in both cases. In fact the dryland millet option would be a loss maker despite the seed cost being only 25% of the sorghum cost.

**Irrigated dairy split paddock trial results**

<table>
<thead>
<tr>
<th></th>
<th>Millet</th>
<th>Forage sorghum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yield (kg DM/ha)</td>
<td>7,240</td>
<td>16,964</td>
</tr>
<tr>
<td>NDF (%)</td>
<td>53.33</td>
<td>55.33</td>
</tr>
<tr>
<td>ME (MJ / kg DM)</td>
<td>9.07</td>
<td>8.93</td>
</tr>
<tr>
<td>Daily milk from crop (litres / day)</td>
<td>5.90</td>
<td>4.76</td>
</tr>
<tr>
<td>Total milk from crop (litres / ha)</td>
<td>2373</td>
<td>4658</td>
</tr>
<tr>
<td>Price (0.28c / litre)</td>
<td>0.45</td>
<td>0.45</td>
</tr>
<tr>
<td>Gross Income ($/ha)</td>
<td>$1,067</td>
<td>$2,096</td>
</tr>
<tr>
<td>Total costs ($/ha)</td>
<td>$306</td>
<td>$430</td>
</tr>
<tr>
<td>Gross Margins ($/ha)</td>
<td>$709</td>
<td>$1,666</td>
</tr>
<tr>
<td>Extra Profit from forage sorghum</td>
<td>+$957</td>
<td></td>
</tr>
</tbody>
</table>

The irrigated trial showed improved water use efficiency from 27kg DM/mm water for shirohie millet to 63kg DM/mm water for forage sorghum. Under dairy modelling using the Animal Performance Calculator the forage sorghum showed a $957/ha greater profit.

**Dryland beef split paddock trial results**

<table>
<thead>
<tr>
<th></th>
<th>Millet</th>
<th>Forage sorghum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yield (kg DM/ha)</td>
<td>2,526</td>
<td>6,011</td>
</tr>
<tr>
<td>NDF (%)</td>
<td>52.5</td>
<td>54</td>
</tr>
<tr>
<td>ME (MJ per kg DM)</td>
<td>9.3</td>
<td>9.3</td>
</tr>
<tr>
<td>Ave daily gain (kg/hd/day)</td>
<td>0.439</td>
<td>0.400</td>
</tr>
<tr>
<td>Liveweight gain (kg lwg/ha)</td>
<td>105</td>
<td>234</td>
</tr>
<tr>
<td>Price ($/hd lwg)</td>
<td>$1.80</td>
<td>$1.80</td>
</tr>
<tr>
<td>Gross Income ($/ha)</td>
<td>$189</td>
<td>$422</td>
</tr>
<tr>
<td>Total costs ($/ha)</td>
<td>$216</td>
<td>$340</td>
</tr>
<tr>
<td>Gross Margins ($/ha)</td>
<td>-$27</td>
<td>$82</td>
</tr>
<tr>
<td>Extra Profit from BMR Revolution</td>
<td>+$109</td>
<td></td>
</tr>
</tbody>
</table>

The dryland trial showed improved water use efficiency from 24kg DM/mm water for shirohie millet to 57kg DM/mm water for forage sorghum. Under beef modelling using the Animal Performance Calculator the forage sorghum showed a $109/ha greater profit.
Canola
Winter canola

Seed Force pioneered the use of forage rape and blends with cereals and ryegrass to increase winter feed production on mixed farms.

In 2011 we first trialled RAGT winter canolas for grain and oil yield. Seed Force has seen the potential for these winter types to be sown early and provide exceptional autumn/winter feed and then be locked up for similar grain and oil yields where finishing spring rains occur. But given the large grazing returns from these varieties, even moderate grain yields or harvest for hay would enable improved Gross Margins over spring canolas used for grain & oil only.

Typical winter forage yields of 4.0 to 6.0tDM/ha have enabled grazing of 30-40 lambs/ha for 8-12 weeks prior to lock up for grain.

This is resulting in grazing income of $1,000-1,500/ha (equivalent of 2-3t/ha grain), plus grain yields of 2.0-3.0t/ha.

The new Clearfield canola Edimax CL has been an outstanding success and has been at the top of all winter canola trials. It has been commercially available since 2015.

Grazing guidelines

Seed Force winter canola can be planted as early as adequate moisture is available to enable successful establishment. Plants can be grazed after they have reached withholding guidelines for seed treatments. Ensure that stock have been drenched and vaccinated at least seven days before moving onto the crop. They should be introduced slowly over a few days to enable rumen adjustment and additional fibre such as hay or straw should be available as well as fresh water.

Forage yields can be increased by the application of Nitrogen up to 60kg N/ha about four weeks after sowing. Crop should not be grazed within four weeks of application of Nitrogen.

Livestock withholding guidelines

> JOCKEY STAYER® + PONCHO PLUS®:
  DO NOT GRAZE PLANTS GROWN FROM TREATED SEED, OR CUT FOR STOCK FOOD WITHIN EIGHT (8) WEEKS OF SOWING.

> EXPORT SLAUGHTER INTERVAL (ESI) – SEVEN (7) WEEKS:
  Livestock that have been grazed on crops grown from treated seed should be placed on clean feed for seven weeks prior to export slaughter.
SF Edimax CL
Clearfield winter canola

**FEATURES**
- Full season growing potential
- Can be sown in HRZ from late summer until early winter to reduce peak time use of seeder
- Increased income potential for autumn/winter grazing when sown early

**BENEFITS**
- Excellent yield potential
- Late maturity spreads frost risk
- Sowing early reduces requirement for slug control when soil temperatures allow faster growth
- High oil content

**Sowing rate**
- Grain only: 2.5–3.5kg/ha
- Early grazing and grain: 3.5–4.0kg/ha

**late - very late maturity**

**Australian release**
> 2014

**Stock suitability**
> Sheep & beef

**Grazing and grain**
SF Edimax CL is a hybrid, Clearfield winter canola offering growers improved gross margins from both autumn/winter grazing and high potential grain yields. SF Edimax CL can be sown in late summer or early autumn for grazing at eight weeks after sowing up until mid-July lock-up for grain with excellent oil content.

**TYPE:** Hybrid
**HERBICIDE TOLERANCE GROUP:** Clearfield
**BLACKLEG RESISTANCE:** R-MR (Bare), R (Jockey) Resistance Group C
**SEEDLING VIGOUR:** Excellent
**CROP HEIGHT:** Moderate to tall
**GRAZING POTENTIAL:** Very good autumn and winter
**SOWING ZONES:** NW & SW slopes, S Tablelands NSW, N Victoria (irrigation), S Victoria, SE SA, Tasmania

**Crop trial data**

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>LAKE BOLAC (VIC)</th>
<th>DERRINALLUM (VIC)</th>
<th>EURONGILY (NSW)</th>
<th>AVERAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>KG/HA % MEAN</td>
<td>KG/HA % MEAN</td>
<td>KG/HA % MEAN</td>
<td>KG/HA % MEAN</td>
</tr>
<tr>
<td>SF Edimax CL</td>
<td>2,442 117</td>
<td>2,500 133</td>
<td>1,035 93</td>
<td>1,992 118</td>
</tr>
<tr>
<td>SF Sensation</td>
<td>2,208 105</td>
<td>1,725 92</td>
<td>1,230 111</td>
<td>1,721 101</td>
</tr>
<tr>
<td>Hyola 971</td>
<td>1,881 90</td>
<td>1,772 94</td>
<td>1,020 92</td>
<td>1,558 92</td>
</tr>
<tr>
<td>SF Brazzil</td>
<td>1,810 86</td>
<td>1,397 74</td>
<td>1,025 92</td>
<td>1,411 83</td>
</tr>
<tr>
<td>Hyola 930</td>
<td>1,600 76</td>
<td>1,586 84</td>
<td>1,158 104</td>
<td>1,448 85</td>
</tr>
<tr>
<td>Site Mean</td>
<td>2,095</td>
<td>1,881</td>
<td>1,110</td>
<td>1,696</td>
</tr>
<tr>
<td>CV%</td>
<td>12.04%</td>
<td>15.63%</td>
<td>17.89%</td>
<td></td>
</tr>
<tr>
<td>LSD</td>
<td>178.46</td>
<td>207.92</td>
<td>320</td>
<td></td>
</tr>
</tbody>
</table>

* based on data from trial at Murwillumbah 2015/16
* Quality data from NSW DPI Feed Analysis Service based on different cutting heights
SF Spark TT
hybrid canola

FEATURES
- Excellent early vigour
- High oil content
- Strong blackleg resistance
- High yields within maturity group

Improved gross margins
SF Spark TT is a new early maturity TT hybrid being released by Seed Force in 2019.

With high yields and improved oil content, it can deliver improved returns in this maturity group.

Sowing rate

<table>
<thead>
<tr>
<th>Average yield range</th>
<th>Optimum plants</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 2 t/ha</td>
<td>20 to 40 plants/m²</td>
</tr>
<tr>
<td>2 to 3 t/ha</td>
<td>30 to 40 plants/m²</td>
</tr>
</tbody>
</table>

early maturity

TYPE: Hybrid

HERBICIDE TOLERANCE GROUP: Triazine tolerant

BLACKLEG RESISTANCE: R (Bare); Resistance group ABDF

SEEDLING VIGOUR: Excellent

CROP HEIGHT: Short-Moderate

ALTERNATIVE TO: Hyola 350, Bonito, Stingray

SOWING ZONES: 300 - 500mm

Crop trial data*

<table>
<thead>
<tr>
<th>Variety</th>
<th>DTF 2017</th>
<th>Mean 8 sites kg/ha</th>
<th>% Control</th>
<th>Mean oil all trials (%)</th>
<th>Oil Bonus @ $500/t</th>
<th>S/ha @ $500/t incl oil bonus</th>
</tr>
</thead>
<tbody>
<tr>
<td>SF Spark TT</td>
<td>99</td>
<td>2739</td>
<td>101%</td>
<td>47.7</td>
<td>$42.48</td>
<td>$1,412</td>
</tr>
<tr>
<td>InVigour T4510</td>
<td>103</td>
<td>2704</td>
<td>100%</td>
<td>46.1</td>
<td>$30.50</td>
<td>$1,383</td>
</tr>
<tr>
<td>Hyola 559TT</td>
<td>105</td>
<td>2407</td>
<td>89%</td>
<td>47.5</td>
<td>$41.61</td>
<td>$1,245</td>
</tr>
<tr>
<td>DG 560TT</td>
<td>104</td>
<td>2264</td>
<td>84%</td>
<td>44.3</td>
<td>$16.91</td>
<td>$1,149</td>
</tr>
<tr>
<td>ATR Bonito</td>
<td>104</td>
<td>2143</td>
<td>79%</td>
<td>48.2</td>
<td>$46.50</td>
<td>$1,118</td>
</tr>
<tr>
<td>ATR Mako</td>
<td>102</td>
<td>2105</td>
<td>78%</td>
<td>45.0</td>
<td>$22.75</td>
<td>$1,075</td>
</tr>
<tr>
<td>ATR Stingray</td>
<td>101</td>
<td>1956</td>
<td>72%</td>
<td>47.2</td>
<td>$39.13</td>
<td>$1,017</td>
</tr>
</tbody>
</table>

* based on Seed Force internal trials 2017
SF Turbine® TT
hybrid canola

FEATURES

• Excellent early vigour
• Moderate crop height
• Up to 10% higher yielding than open pollinated varieties
• Equivalent yield to other TT hybrids

Improved gross margins
SF Turbine TT is the first in a new series of TT hybrids to be introduced by Seed Force.
SF Turbine TT has excellent early vigour and gets up and establishes quickly for maximum weed competition.

Sowing rate

<table>
<thead>
<tr>
<th>Average yield range</th>
<th>Optimum plants</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 2 t/ha</td>
<td>20 to 40 plants/m²</td>
</tr>
<tr>
<td>2 to 3.5 t/ha</td>
<td>30 to 50 plants/m²</td>
</tr>
</tbody>
</table>

early - mid maturity

TYPE: Hybrid

HERBICIDE TOLERANCE GROUP: Triazine tolerant

BLACKLEG RESISTANCE: MR-MS (Bare), R-MR (Jockey) Resistance Group BF

SEEDLING VIGOUR: Excellent

CROP HEIGHT: Moderate

ALTERNATIVE TO: ATR Gem, ATR Stingray, ATR Bonito, ATR Mako, Hyola 559 TT + Hyola 450 TT

SOWING ZONES: 350 mm plus

Crop trial data*

<table>
<thead>
<tr>
<th>Variety</th>
<th>Year</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mean Yield t/ha</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SF Turbine TT</td>
<td>All Trials</td>
<td>37</td>
<td>36</td>
<td>36</td>
</tr>
<tr>
<td>Pioneer 44T02 TT</td>
<td>88</td>
<td>106</td>
<td>107</td>
<td>106</td>
</tr>
<tr>
<td>Hyola 559TT</td>
<td>109</td>
<td>104</td>
<td>102</td>
<td>105</td>
</tr>
<tr>
<td>ATR Bonito</td>
<td>99</td>
<td>98</td>
<td>94</td>
<td>95</td>
</tr>
<tr>
<td>ATR Mako</td>
<td>99</td>
<td>98</td>
<td>91</td>
<td>94</td>
</tr>
<tr>
<td>Monola 416TT</td>
<td>70</td>
<td>94</td>
<td>91</td>
<td>92</td>
</tr>
</tbody>
</table>

* NVT Mid Triazine Tolerant 2016-17 relative yield data compared with trial mean
SF Ignite® TT
hybrid canola

FEATURES
- Excellent early vigour
- Moderate crop height
- Up to 10% higher yielding than open pollinated varieties
- Equivalent yield to other TT hybrids

Improved gross margins
SF Ignite TT is the second in a new series of TT hybrids to be introduced by Seed Force.
SF Ignite TT has excellent early vigour and gets up and establishes quickly for maximum weed competition.

Sowing rate
- Average yield range
  - 1 to 2 t/ha
  - 2 to 3.5 t/ha
- Optimum plants
  - 20 to 40 plants/m²
  - 30 to 50 plants/m²

mid - late maturity

Australian release
> 2017

TYPE: Hybrid
HERBICIDE TOLERANCE GROUP: Triazine tolerant
BLACKLEG RESISTANCE: MR (Bare), R (Jockey) Resistance Group BF
SEEDLING VIGOUR: Excellent
CROP HEIGHT: Moderate
ALTERNATIVE TO: Hyola 650TT, ATR Gem, ATR Wahoo, ATR Mako, Hyola 559 TT
SOWING ZONES: 500 mm plus

Crop trial data*

<table>
<thead>
<tr>
<th>Variety</th>
<th>Year</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mean Yield t/ha</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>InVigor T 4510</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SF Ignite TT</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pioneer 44T02 TT</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hyola 559TT</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hyola 650TT</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ATR Wahoo</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Monola 515TT</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>All Trials</td>
<td>36</td>
<td>36</td>
</tr>
<tr>
<td>InVigor T 4510</td>
<td>68</td>
<td>114</td>
<td>110</td>
</tr>
<tr>
<td>SF Ignite TT</td>
<td>64</td>
<td>114</td>
<td>107</td>
</tr>
<tr>
<td>Pioneer 44T02 TT</td>
<td>51</td>
<td>102</td>
<td>105</td>
</tr>
<tr>
<td>Hyola 559TT</td>
<td>72</td>
<td>101</td>
<td>103</td>
</tr>
<tr>
<td>Hyola 650TT</td>
<td>44</td>
<td>103</td>
<td>102</td>
</tr>
<tr>
<td>ATR Wahoo</td>
<td>32</td>
<td>97</td>
<td>92</td>
</tr>
<tr>
<td>Monola 515TT</td>
<td>88</td>
<td>80</td>
<td>80</td>
</tr>
</tbody>
</table>

* NVT Mid Triazine Tolerant 2016-17 relative yield data compared with trial mean
Barley
RGT Planet
barley

FEATURES
• High yielding variety
• Low protein, high hot water extract
• Malt accreditation in Europe
• Mid season type

BENEFITS
• Earlier planting opportunity
• Suited to malting
• Heineken green light
• Carlsberg approved
• Adaptable to early or late season finishes

A good economic option
RGT Planet is a new high yielding spring barley being introduced into Australia. It has a strong agronomic package that combined with its yield potential will make it an economic option for Australian barley growers.

It currently has Stage 1 Malt accreditation in Australia, but already has malt status in many European countries and with Heineken and Carlsberg worldwide.

RGT Planet has good disease resistance to mildew, rhinocerosporum, net blotch and brown rust. It also has good straw strength and reduced risk of lodging.

Crop trial data *

<table>
<thead>
<tr>
<th>National NVT</th>
<th>2016</th>
<th>2017</th>
<th>mean</th>
</tr>
</thead>
<tbody>
<tr>
<td>mean yield</td>
<td>4.98</td>
<td>3.58</td>
<td></td>
</tr>
<tr>
<td>no trials</td>
<td>56</td>
<td>51</td>
<td></td>
</tr>
<tr>
<td>RGT Planet</td>
<td>117</td>
<td>107</td>
<td>112</td>
</tr>
<tr>
<td>Rosalind</td>
<td>109</td>
<td>110</td>
<td>110</td>
</tr>
<tr>
<td>Banks</td>
<td>104</td>
<td>105</td>
<td>105</td>
</tr>
<tr>
<td>Fathom</td>
<td>104</td>
<td>105</td>
<td>105</td>
</tr>
<tr>
<td>Compass</td>
<td>99</td>
<td>108</td>
<td>104</td>
</tr>
<tr>
<td>La Trobe</td>
<td>101</td>
<td>105</td>
<td>103</td>
</tr>
<tr>
<td>Spartacus CL</td>
<td>100</td>
<td>104</td>
<td>102</td>
</tr>
</tbody>
</table>

* based on 2016 NVT trials as at 16.1.2017

End Point Royalty
>$4.40/tonne (excl gst)

Sowing rate
50–80kg/ha

mid season flowering

Australian release
> 2017

End Point Royalty
>$4.40/tonne (excl gst)
Wheat
**RGT Zanzibar**
maint season wheat

<table>
<thead>
<tr>
<th>FEATURES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Trialed as SFR86-055</strong></td>
</tr>
<tr>
<td>• Main season spring wheat</td>
</tr>
<tr>
<td>• Suited to late April to mid May sowing</td>
</tr>
<tr>
<td>• Being tested for grazing tolerance</td>
</tr>
<tr>
<td>• High yield potential</td>
</tr>
<tr>
<td>• Excellent stripe rust resistance</td>
</tr>
<tr>
<td>• Excellent straw strength and standability</td>
</tr>
</tbody>
</table>

**Full season growing potential**

RGT Zanzibar is a bearded main season red wheat with very high yield potential and is very well adapted to all environments across QLD, NSW, VIC, SA and Tasmania. For growers looking for yield and have a reliable feed market this variety is hard to go past. RGT Zanzibar has superior grain yield over key competitors Suntop, EGA Gregory and Spitfire. The variety has a good disease resistance profile with very good resistance to stripe rust. With excellent straw strength harvest quality is good producing large bold grain with a high thousand grain weight.

**TYPE:** Main season red wheat

**DISEASE RESISTANCE:** Excellent stripe rust resistance

**SEEDLING VIGOUR:** Excellent

**GRAZING POTENTIAL:** Very good autumn and winter

**SOWING ZONES:** Suited to the main season sowing area of eastern Australia

**Crop trial data**

RGT Accroc
winter wheat

**FEATURES**

- Full season growing potential
- Can be sown in HRZ from late summer until early winter
- Early heading and maturing
- High yield potential
- Resistant to wheat streak mosaic virus
- Short stiff straw
- Increased income potential for autumn/winter grazing when sown early

**Full season growing potential**

RGT Accroc is a bearded, medium-long growing season winter wheat with potential for high yields in the medium and high rainfall zone. It is a variety that has taken a high market share in France where its combination of earlier maturity, high yields and good grain quality has made it desirable for growers and end-users alike.

The variety has a good disease resistance profile with very good resistance to stripe rust and good resistance to wheat streak mosaic virus. With short stiff straw, harvest quality is good producing large bold grain with a high thousand grain weight.

**Sowing rate**

80–120kg/ha

mid - late maturity

**Australian release**

> 2017

**End Point Royalty**

>$4.40/tonne (excl gst)

---

**TYPE:** Winter wheat

**DISEASE RESISTANCE:** Good resistance to stripe rust

**SEEDLING VIGOUR:** Excellent

**GRAZING POTENTIAL:** Very good autumn and winter

**SOWING ZONES:** NW & SW slopes, S Tablelands NSW, N Victoria (irrigation), S Victoria, South-east SA, Tasmania

**Crop trial data**

For information on performance of RGT Accroc in early and long season wheat trials please check results on [www.nvtonline.com.au](http://www.nvtonline.com.au)
## SF Adagio

**winter wheat**

### FEATURES

- Full season growing potential
- Very high yield potential
- Can be sown in HRZ from late summer until early winter
- Good resistance to fusarium
- Increased resistance to sprouting
- Increased income potential for autumn/winter grazing when sown early

### Sowing rate

80–120kg/ha

**mid - late maturity**

### Australian release

> 2014

### End Point Royalty

>$4.00/tonne (excl gst)

### Med - long season

SF Adagio is a bearded, medium - long growing season winter wheat with potential for high yields in the medium and high rainfall zone. It has been developed in France, Spain and Turkey where it is grown primarily for its earlier maturity, its excellent resistance to fusarium and its bread making quality, having a particularly good level of protein and specific weight.

The high yield and grain quality of SF Adagio will bring benefits to the Australian grower.

**TYPE:** Winter wheat

**DISEASE RESISTANCE:** Good resistance to fusarium

**SEEDLING VIGOUR:** Excellent

**GRAZING POTENTIAL:** Very good autumn and winter

**SOWING ZONES:** NW & SW slopes, S Tablelands NSW, N Victoria (irrigation), S Victoria, SE SA, Tasmania

### Crop trial data

For information on performance of RGT Adagio in early and long season wheat trials please check results on [www.nvtonline.com.au](http://www.nvtonline.com.au)
RGT Calabro
winter wheat

FEATURES

Trialed as SFR86-036
- Full season growing potential
- Can be sown in HRZ from late summer until early winter
- Early heading and maturing
- High yield potential
- Excellent stripe rust resistance
- Short stiff straw with excellent standability
- Increased income potential for autumn/winter grazing when sown early

Full season growing potential
RGT Calabro is a bearded, medium-long growing season winter wheat with potential for high yields in the medium and high rainfall zone. It is a variety that has taken a high market share in France where its maturity, high yields and good grain quality has made it combination of earlier desirable for growers and end-users alike.

The variety has a good disease resistance profile with very good resistance to stripe rust and good resistance to wheat streak mosaic virus. With short stiff straw, harvest quality is good producing large bold grain with a high thousand grain weight.

Sowing rate
80–120kg/ha
mid - late maturity

Australian release
> 2017

End Point Royalty
>$4.40/tonne (excl gst)

Available through:
Midland Seeds, Richmond Tasmania

Crop trial data
For information on performance of RGT Calabro in early and long season wheat trials please check results on www.nvtonline.com.au

TYPE: Winter wheat
DISEASE RESISTANCE: Good resistance to stripe rust
SEEDLING VIGOUR: Excellent
GRAZING POTENTIAL: Very good autumn and winter
SOWING ZONES: Tasmania, S Tablelands NSW, N Victoria (irrigation), S Victoria, South-east SA
Notes