# Tillering plausibility testing

**Region** CQ: Emerald

SQ: Dalby

NNSW: Tamworth

**Sowing** CQ: 15-Sep to 15 Jan (15-Sep, Oct, Nov, Dec, Jan)

SQ: 15-Sep to 15 Jan (15-Sep, Oct, Nov, Dec, Jan)

NNSW: 15-Oct to 15-Jan (15-Oct, Nov, Dec, Jan)

**Population**: 2, 4, 8, 12 Plants/m2

**Row Configuration**: Solid, Single skip, Double skip.

**Tillering** Propensity: Low, Medium, High (see table below).

Simulations: N non-limiting, SSW 75%, 1960 – 2015 seasons

Coefficients for equation Total Tiller No = a + b\*S/DRatio

|  |  |
| --- | --- |
| **Tillering** |  |
| Cultivar | Intercept (a) | | Slope (b) |  |
| Very low | -1.363 | | 0.159 |  |
| Low | -0.818 | | 0.206 |  |
| Medium | -0.265 | | 0.247 |  |
| High | +0.329 | | 0.300 |  |
| Very High | +0.960 | | 0.347 |  |

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|  |  |  |  |  |  |  |
| Table 2a. – Tiller No. Solid Planting | | |  |  |  |  |
|  | | |  |  |  |  |
| **Region** | **Planting Window** | **Planting Date** | **4.00** | **6.00** | **8.00** | **12.00** |
| **CQ** | 15-Sep to 15 Jan | <15-Dec | 0.85 | 0.65 | 0.45 | 0.15 |
|  |  | >15-Dec | 0.60 | 0.45 | 0.35 | 0.15 |
|  |  |  |  |  |  |  |
| **SQ** | 15-Sep to 15 Jan | <15-Nov | 1.70 | 1.30 | 0.90 | 0.30 |
|  |  | >15Nov | 1.20 | 0.85 | 0.55 | 0.15 |
|  |  |  |  |  |  |  |
| **NNSW** | 15-Oct to 15-Jan | <15-Nov | 2.20 | 1.70 | 1.10 | 0.30 |
|  |  | >15-Nov | 1.70 | 1.25 | 0.75 | 0.15 |
|  |  | >15-Dec | 1.20 | 0.80 | 0.40 | 0.00 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Table 2b. – Tiller No. Single-skip Planting | | |  |  |  |  |
|  | | |  |  |  |  |
| **Region** | **Planting Window** | **Planting Date** | **4.00** | **6.00** | **8.00** | **12.00** |
| **CQ** | 15-Sep to 15 Jan | <15-Dec | 0.65 | 0.43 | 0.28 | 0.08 |
|  |  | >15-Dec | 0.48 | 0.33 | 0.23 | 0.08 |
|  |  |  |  |  |  |  |
| **SQ** | 15-Sep to 15 Jan | <15-Nov | 1.30 | 0.85 | 0.55 | 0.15 |
|  |  | >15Nov | 0.88 | 0.53 | 0.33 | 0.08 |
|  |  |  |  |  |  |  |
| **NNSW** | 15-Oct to 15-Jan | <15-Nov | 1.65 | 1.05 | 0.65 | 0.15 |
|  |  | >15-Nov | 1.23 | 0.73 | 0.43 | 0.08 |
|  |  | >15-Dec | 0.80 | 0.40 | 0.20 | 0.00 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Table 2c. – Tiller No. Double-skip Planting | | |  |  |  |  |
|  | | |  |  |  |  |
| **Region** | **Planting Window** | **Planting Date** | **4.00** | **6.00** | **8.00** | **12.00** |
| **CQ** | 15-Sep to 15 Jan | <15-Dec | 0.45 | 0.20 | 0.10 | 0.00 |
|  |  | >15-Dec | 0.35 | 0.20 | 0.10 | 0.00 |
|  |  |  |  |  |  |  |
| **SQ** | 15-Sep to 15 Jan | <15-Nov | 0.90 | 0.40 | 0.20 | 0.00 |
|  |  | >15Nov | 0.55 | 0.20 | 0.10 | 0.00 |
|  |  |  |  |  |  |  |
| **NNSW** | 15-Oct to 15-Jan | <15-Nov | 1.10 | 0.40 | 0.20 | 0.00 |
|  |  | >15-Nov | 0.75 | 0.20 | 0.10 | 0.00 |
|  |  | >15-Dec | 0.40 | 0.00 | 0.00 | 0.00 |
|  |  |  |  |  |  |  |