

# Wheat Variety Demonstration

**Aim:** To demonstrate the potential of some new wheat varieties in the L2 rainfall zone.

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**Company:** Liebe Group

**Farmer:** Peter Bryant  
**Location:** East Latham



**Background:** Yitpi has good stem and stripe rust resistance though is susceptible to leaf rust and yellow tolerance and CCN resistant. It has a similar maturity to Carnamah. Bonnie Rock has good resistance to leaf and stem rust, however susceptible to stripe rust. It is slightly longer season than Carnamah. Shenton is a new GBA variety and is a Westonia and Kalannie replacement that is well adapted to low and medium rainfall zones. Resistant to three rusts, powdery mildew and black point. Sapphire is another of the new triple rust resistant GBA varieties. It is a full season variety with similar maturity to Carnamah.

## Trial Details:

|                             |                                                                                         |
|-----------------------------|-----------------------------------------------------------------------------------------|
| Plot size and replication   | 16.5m x 150m, 2 replicates                                                              |
| Soil type                   | Well drained sand plain                                                                 |
| Sowing date                 | 27 <sup>th</sup> May                                                                    |
| Conditions at sowing        | Good soil moisture                                                                      |
| Machinery                   | Flexi-Coil                                                                              |
| Seeding rate                | 70 kg/ha                                                                                |
| Fertiliser                  | 27 <sup>th</sup> May: 60 kg MAPS Cu, Zn, 50 kg/ha urea                                  |
| Herbicides and Insecticides | February: Garlon/Ester<br>27 <sup>th</sup> May: 1.4 L/ha Glyphosate, 250 mL/ha Ester 80 |
| Paddock History             | 2002 = Wheat, 2001= Lupins, 2000 = Wheat                                                |

## Results:

| Variety       | Yield t/ha | Protein % | Weight kg/hl | Screenings % | Return \$/ha |
|---------------|------------|-----------|--------------|--------------|--------------|
| Yitpi         | 1.96       | 13.6      | 73.08        | 2.07         | AH-488       |
| Bonnie Rock   | 1.88       | 13.1      | 77.2         | 6.19         | AH-442       |
| Carnamah      | 1.50       | 15.1      | 73.26        | 5.97         | AH-363       |
| Shenton       | 1.38       | 14.1      | 74.24        | 3.89         | APW-326      |
| Calingiri     | 1.75       | 13.7      | 74.26        | 3.76         | ASW-380      |
| Arrino        | 1.66       | 14.1      | 74.24        | 3.89         | ASW-360      |
| Sapphire      | 1.25       | 15.8      | 72.1         | 13.83        | GP-236       |
| L.S.D. (0.05) | 0.53       |           |              |              |              |

## Summary:

- Yitpi performed well in this trial and looks to be the most promising of the newer varieties.
- Shenton and Sapphire did not yield as well as some of the more commonly grown varieties; more trial work into these new varieties should be done before they are adopted on a large scale.