

### 3.1.2 Barley

**Location:** "South Roxby", Gnarwarre

**Researchers:** Colin Hacking, Wes Arnott (SFS Ltd)  
Peter O'Loughlin (Agvise Services)

**Background:**

The demonstration blocks are designed to view both commercial and near commercial varieties on a relatively large scale. They are used to complement the work undertaken by DNRE with their variety testing programme.

**Aim:**

To determine the yield and grain quality of 6 commercial Barley varieties.

**Trial Design:**

Each variety is represented by 6 beds (1.7m in width). Harvest length was 56 metres, apart from Fitzgerald, Arapiles and Franklin where the distance was reduced due to variability and waterlogging within the plot area. Replication was achieved by harvesting 3 of the 6 beds separately.

**Sowing Date:** 4<sup>th</sup> June 2001

**Planting Rate:** 100 kg/ha

**Fertiliser:** 100 kg/ha MAP at planting

**Seed treatment:** Vincit at recommended rate.

**Herbicides:** 4/5/01 1.5 L/Ha Roundup Max + 100 ml/ha Goal + 100 ml/ha Dimethoate  
27/6/01 700 ml/ha Tigrex  
13/7/01 1.5 L/ha Tristar Advance + 125 ml/ha Dominex

**Harvest Date:** 4<sup>th</sup> January 2001

**Results:**

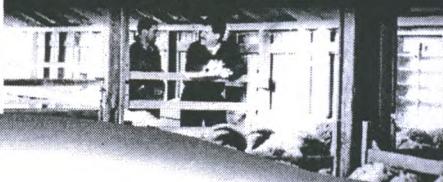
Variety	Yield kg/ha	Protein %	Test kg/hl
Franklin	4,610	9.4	60.6
Fitzgerald	4,128	10.2	64.8
Onslow	3,991	9.0	64.0
Yambla	3,111	9.4	50.6
Gairdner	2,454	9.0	63.2
Arapiles	1,822	10.0	60.4
<b>Average</b>	<b>3,353</b>	<b>9.5</b>	<b>60.6</b>

LSD = 671 kg/ha

## People



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## History



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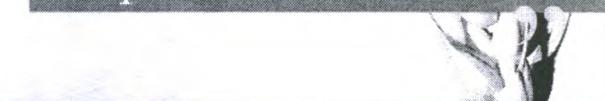
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People Resources Results.



**Discussion:**

Despite the fact the trial was on beds, there was significant waterlogging in parts of the trial area caused by a natural ground depression. Yield results should therefore be treated with caution. Of particular concern is the poor performance of Gairdner relative to the other varieties. I would suggest that more consideration be given to the results from the DNRE barley trial at the Gnarwarre site.

**Department of Natural Resources and Environment Trial Results (Gnarwarre):**

Variety	Yield T/ha	% Site Mean	% Gairdner
VB9926	8.14	118	109
DASH	7.78	113	104
WB234	7.72	112	103
MIMOSA	7.67	111	103
GLEAM	7.56	110	101
ONSLOW	7.56	110	101
VB0022	7.53	109	101
YAMBLA	7.50	109	100
GAIRDNER	7.48	108	100
WABAR2164	7.46	108	100
WABAR2080	7.42	108	99
WB235	7.38	107	99
WB247	7.23	105	97
WRHV2281	7.00	102	94
TAS96-59	6.99	101	93
TAS97-136	6.86	100	92
FANFARE	6.84	99	91
WB236	6.71	97	90

Variety	Yield T/ha	% Site Mean	% Gairdner
WB236	6.71	97	90
FRANKLIN	6.66	97	89
WABAR2147	6.64	96	89
DUMMYVAR2	6.53	95	87
WB238	6.49	94	87
VB9948	6.39	93	85
VB9947	6.38	92	85
WRHV1838	6.32	92	84
TANTANGARA	6.08	88	81
WB233	6.01	87	80
WB246	5.83	85	78
VB0024	5.61	81	75
WABAR2146	5.25	76	70
<b>Site mean:</b>	<b>6.90</b>	<b>6.901</b>	<b>6.901</b>
<b>Coefficient of Var</b>	<b>5.0</b>	<b>5.0</b>	<b>5.0</b>
<b>Average SED:</b>	<b>0.3</b>		
<b>Average LSD:</b>	<b>0.60</b>	<b>9</b>	<b>8</b>



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