

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: 4th June 2001

Planting Rate: 100 kg/ha

Fertiliser: 100 kg/ha MAP at planting

Seed treatment: Vincit at recommended rate.

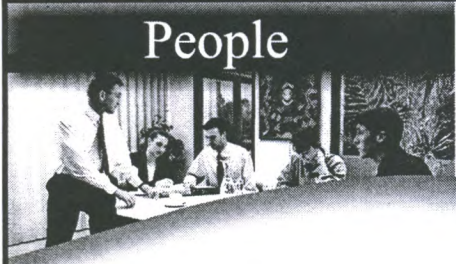
Herbicides: 4/5/01 1.5 L/ha Roundup Max + 100 ml/ha Goal + 100 ml/ha Dimethoate
27/6/01 700 ml/ha Tigrex
13/7/01 1.5 L/ha Tristar Advance + 125 ml/ha Dominex

Harvest Date: 4th 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
Average	3,353	9.5	60.6

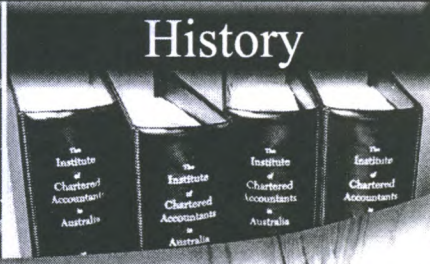
LSD = 671 kg/ha



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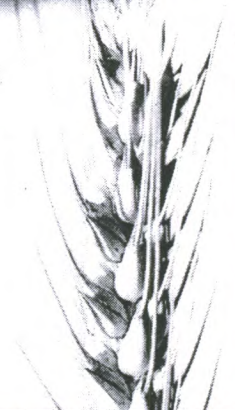
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Discussion:

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	Variety	Yield T/ha	% Site Mean	% Gairdner
VB9926	8.14	118	109	WB236	6.71	97	90
DASH	7.78	113	104	FRANKLIN	6.66	97	89
WB234	7.72	112	103	WABAR2147	6.64	96	89
MIMOSA	7.67	111	103	DUMMYVAR2	6.53	95	87
GLEAM	7.56	110	101	WB238	6.49	94	87
ONslow	7.56	110	101	VB9948	6.39	93	85
VB0022	7.53	109	101	VB9947	6.38	92	85
YAMBLA	7.50	109	100	WRHV1838	6.32	92	84
GAIRDNER	7.48	108	100	TANTANGARA	6.08	88	81
WABAR2164	7.46	108	100	WB233	6.01	87	80
WABAR2080	7.42	108	99	WB246	5.83	85	78
WB235	7.38	107	99	VB0024	5.61	81	75
WB247	7.23	105	97	WABAR2146	5.25	76	70
WRHV2281	7.00	102	94				
TAS96-59	6.99	101	93	Site mean:	6.90	6.901	6.901
TAS97-136	6.86	100	92	Coefficient of Var	5.0	5.0	5.0
FANFARE	6.84	99	91	Average SED:	0.3		
WB236	6.71	97	90	Average LSD:	0.60	9	8



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