

WHEAT PERFORMANCE ON ACID SOILS

Jennifer Garlinge, Department of Agriculture, South Perth



AIM

To demonstrate the tolerance of new and existing wheat varieties on acid soils.

TRIAL DETAILS

Property	Bob Nixon, Kalannie
Registered Trial Number	05WH53
Soil group	Undefined soil pH (CaCl ₂) 4.9 @ 10cm. 4.4 @ 30cm.
Sowing date	13 th May 2005
Seeding rate	Wheat @ 50 kg/ha
Fertiliser (kg/ha)	13 th May: Agras #1 @ 140 kg/ha 28 th June: Urea (46%) @ 54 kg/ha
Paddock rotation	2004 = Lupins, 2003 = Wheat, 2002 = Wheat, 2001 = Broadleaf & Clover Pasture, 2000 = Wheat
Herbicides	13 th May: Trifluralin X @ 1.5 L/ha, SpraySeed 250 @ 2 L/ha 14 th June: Jaguar @ 1 L/ha, Lontrel L @ 250 mL/ha

RESULTS

Test name	Grain (kg/ha)	(%)
WAWHT2750	1857	147*
Calingiri	1667	132*
EGA Jitarning	1664	132*
Perenjori	1663	132*
WAWHT2732	1662	132*
EGA Jitarning	1660	131*
WAWHT2727	1636	130*
WAWHT2524	1635	130*
WAWHT2771	1599	127*
WAWHT2773	1596	126*
Machete	1591	126*
WAWHT2730	1591	126*
Cadoux	1579	125*
Braewood	1555	123*
WAWHT2713	1551	123*
WAWHT2726	1549	123*
Spear	1537	122*
WAWHT2752	1527	121*
Datatine	1525	121*
Tincurrin	1518	120*
EGA2248	1510	120*
Bullaring	1492	118*
WAWHT2772	1461	116*
Camm	1458	115*
EGA Blanco	1453	115*
Brookton	1441	114*

Test name	Grain (kg/ha)	(%)
GBARuby	1352	107*
Reeves	1327	105
EGA Bonnie Rock	1326	105
WAWHT2721	1319	104
Carnamah	1265	100
Wyalkatchem	1262	100
EGA Eagle Rock	1249	99
WAWHT2775	1244	99
Kukri	1231	98
Corrigin	1225	97
Cascades	1219	97
Drysdale	1190	94
Wyalkatchem	1189	94
E Wentworth	1187	94
BT-Schmbrk	1181	94
Arrino	1147	91*
Lang	1113	88*
Tammarin Rock	1112	88*
Annuello	1109	88*
GBASapphire	1109	88*

Westonia	1388	110*
Nyabing	1379	109*

* = significant (p=0.05).

Adjusted Yield data. Percentages are of Wyalkatchem as control.

COMMENTS

Pre Sowing comment: Good moisture. Small amount of Capeweed and Lupins.

Early Season comment: Dry period after emergence. Some Lupins present and a small amount of Radish.

Mid Season comment: Dry periods and frosts.

Pre Harvest comment: Severe frosts during grain fill effected earlier maturing lines.

Report as at 12:44:50 30 JAN 2006 analysis as at 16 JAN 2006.

STAGE 4 UDON NOODLE WHEAT VARIETY TESTING

Jennifer Garlinge, Department of Agriculture, South Perth



AIM

Evaluate new and existing udon noodle wheat varieties.

TRIAL DETAILS

Property	Bob Nixon, Kalannie
Registered Trial Number	05WH52
Soil group	Undefined. Soil pH (CaCl ₂) 5.3 @ 10cm. 7.7 @ 30cm.
Sowing date	13 th May 2005
Seeding rate	Wheat @ 50 kg/ha
Fertiliser (kg/ha)	13 th May: Agras #1 @ 140 kg/ha 28 th June: Urea (46%) @ 54 kg/ha
Paddock rotation	2004 = Chick Peas, 2003 = Wheat, 2002 = Broadleaf & Clover Pasture, 2001 = Broadleaf & Clover Pasture, 2000 = Wheat
Herbicides	13 th May: Trifluralin X @ 1.5 L/ha, Sprayseed @ 2.4 L/ha 14 th June: Jaguar @ 1 L/ha, Lontrel L @ 250 mL/ha

RESULTS

Test name	Grain (kg/ha)	(%)	Growth scores (1-9)	%	Ext. Height (cm)	(%)
Obs. Date	18 NOV		08 JUL		01 NOV	
WAWHT2856	2871	113*	6.7	100	68	97
WAWHT2855	2795	110*	6.3	94	68	97
WAWHT2771	2629	104	5.7	85	70	100
Datatine	2563	101	6.3	94	63	90
Calingiri	2539	100	6.7	100	70	100
WAWHT2772	2522	99	5.3	79	68	97
WAWHT2775	2397	94*	7.0	104	60	86
Brookton	2394	94*	7.0	104	70	100
WAWHT2773	2345	92*	6.0	90	70	100
WAWHT2813	2248	89*	6.3	94	63	90
EGA Blanco	2188	86*	6.0	90	65	93
Reeves	2154	85*	7.7	115	68	97
Cadoux	2144	84*	7.0	104	68	97
Nyabing	2106	83*	7.0	104	65	93