



Loveland

AGRI PRODUCTS
Get Growing

2015 WA Trial Data
LoKomotive on Wheat, Broomehill, WA

Trial Setup

- Fully randomised & replicated plot work – 3 replicates
- Plot size = 18m X 1.6m
- Treatments applied – Lokomotive.
- Application Date – 12th August 2015 @ GS 32-33.

Seeding Date	18th May 2015
Site	Broomehill, WA
Variety	Mace Wheat @ 60 kg/ha
Protocol	LoKomotive @ 5 lt/ha and 10 lt/ha Foliar applied @ 2 different timings – Z13 & Z32
GSP	Ag Star Extra @ 100kgs/ha & 35 kg/ha Urea IBS

Ag Star Extra	N	P	K	S	Ca	Cu	Zn
	14.1	14.1	--	9.2	--	0.10	0.20

Paddock Soil Tests

Treatment #	0 - 10cm	10cm - 20cm
Gravel	5-10	10-15
Colour	DKGR	LTGR
Colwell P	23	11
Colwell K	30	18
S – KCl	7	5.1
Organic Carbon	1.32	.69
pH – H ₂ O	6.5	6.5
EC	0.102	0.050
pH – CaCl ₂	5.9	5.9
PBI	20.5	7.9
NO ₃ N	44	17
NH ₄ N	1	1

Trial Protocol

Treatment #	Treatment	Applied Rate
T1	Ag Star Extra	86 kg/ha
T2	Agstar Extra + MOP topdressed #	86 kg/ha + 60 kg/ha
T3	Agstar Extra + MOP Banded	86 kg/ha + 37 kg/ha
T4	K Till Extra Plus	140 kg/ha
T5	K Till Extra + MAP topdressed #	100 kg/ha + 10 kg/ha
T6	LoKomotive + Agstar Extra #	5 L/ha + 86 kg/ha
T7	LoKomotive + Agstar Extra #	10 L/ha + 86 kg/ha
T8	LoKomotive + Agstar Extra *	5 L/ha + 86 kg/ha
T9	LoKomotive + Agstar Extra *	10 L/ha + 86 kg/ha
T10	Mop Topdressed + Agstar Extra #	120 kg/ha + 100 kg/ha

Treatments with a # applied Z 13, with * applied Z 32

LoKomotive : 3-0-27

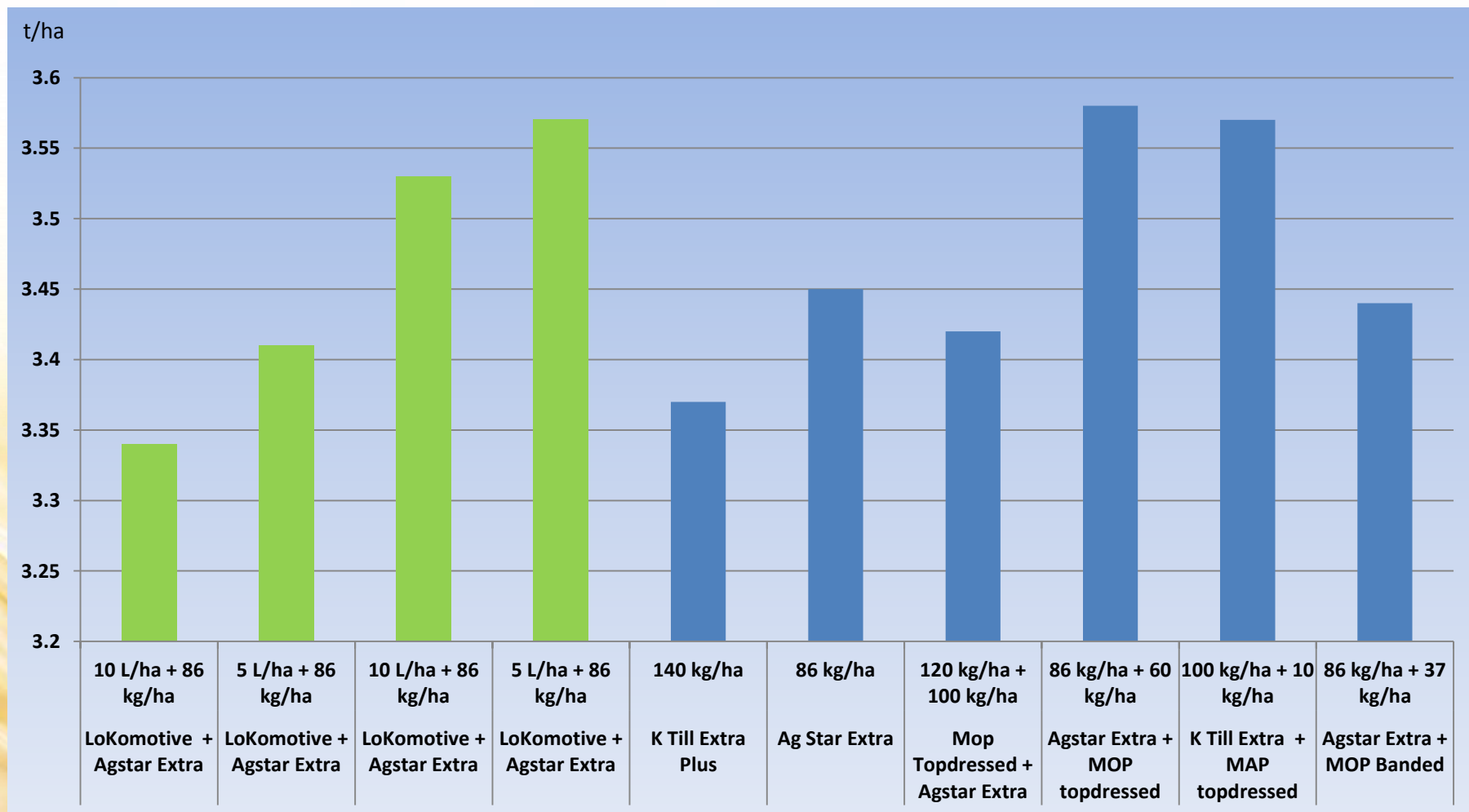
Wheat Grain Yield

Treatment #	Treatment	Applied Rate	Grain Yield t/ha	Tissue Test (K ppm)
T1	Ag Star Extra	86 kg/ha	3.45	1.14
T2	Agstar Extra + MOP topdressed	86 kg/ha + 60 kg/ha	3.58	n/a
T3	Agstar Extra + MOP Banded	86 kg/ha + 37 kg/ha	3.44	n/a
T4	K Till Extra Plus	140 kg/ha	3.37	1.26
T5	K Till Extra + MAP topdressed	100 kg/ha + 10 kg/ha	3.57	1.25
T6	LoKomotive + Agstar Extra	5 L/ha + 86 kg/ha	3.41	0.96
T7	LoKomotive + Agstar Extra	10 L/ha + 86 kg/ha	3.34	1.19
T8	LoKomotive + Agstar Extra	5 L/ha + 86 kg/ha	3.57	0.96
T9	LoKomotive + Agstar Extra	10 L/ha + 86 kg/ha	3.53	1.05
T10	Mop Topdressed + Agstar Extra	120 kg/ha + 100 kg/ha	3.42	2.01

LSD (P=0.05) = 0.315 CV = 5.30

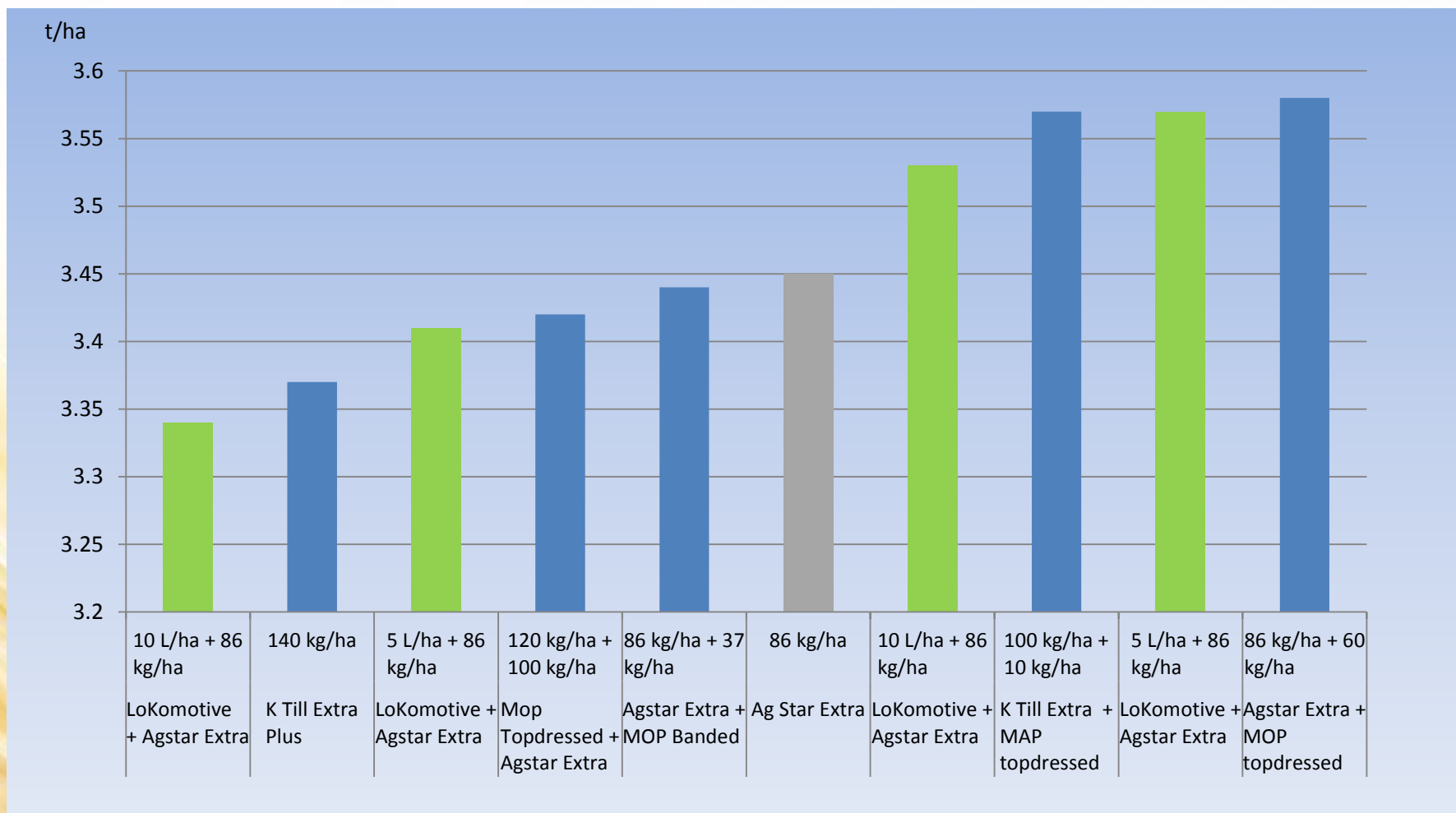
Tissue Test sampled @ Z37.

Wheat Grain Yield



LSD (P=0.05) = 0.315 CV = 5.30

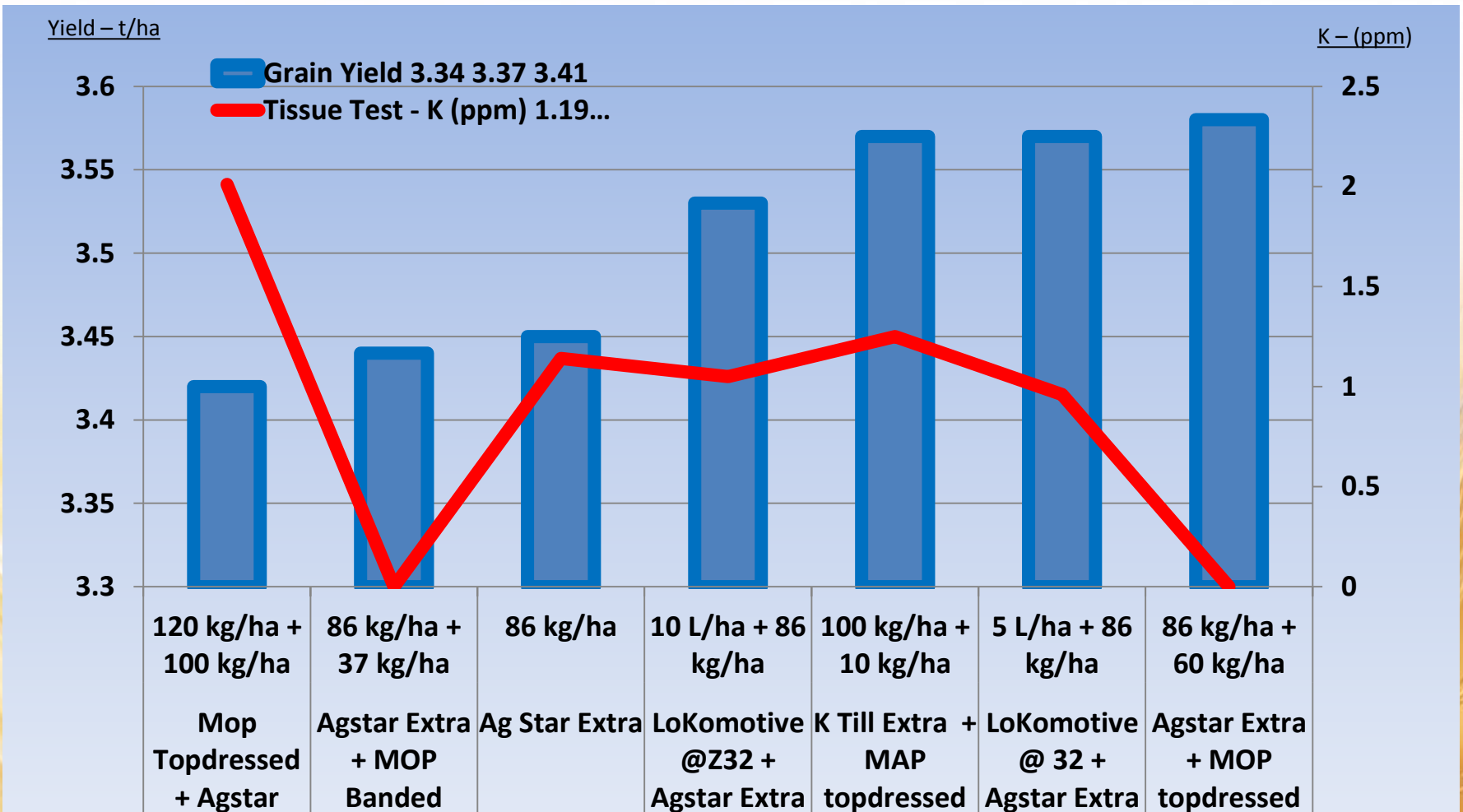
Wheat Grain Yield



LSD (P=0.05) = 0.315 CV = 5.30

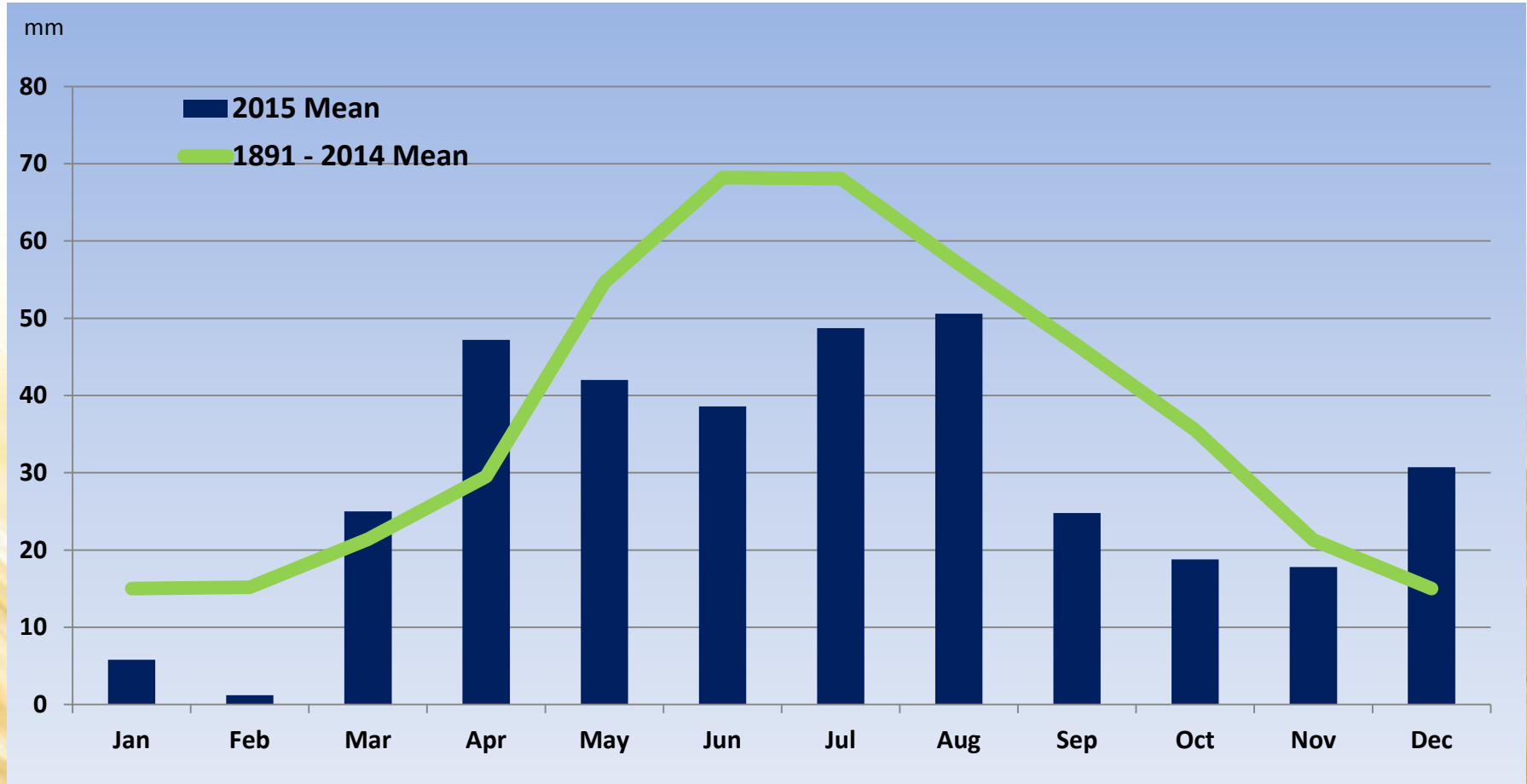


Wheat Grain Yield vs Tissue Sample



LSD (P=0.05) = 0.315 CV = 5.30

Broomehill Rainfall



Conclusions

- Trial conducted in Broomehill WA to evaluate various forms of Potassium applied either as a starter fertiliser or at 1 of 2 growth stage timings (Z 13 and Z 32).
- Treatments applied at Z 13 either broadcast or foliar applied out yielded the control treatment Ag Star Extra (treatment 1) suggesting that at this site the plants required Potassium early in the crops life
- Locomotive applied at 5lt/ha (Z 13) appears to be a suitable option for applying Potassium to a wheat crop in Broomehill WA