

"For sale:

Baby shoes. Never worn."

E. Hemingway

Compete,
spray small weeds,
chaff cart (or HSD)

Peter Newman

Andrew Messina 2.mp4

Non-herbicide weed control

Peter Newman, AHRI



FOCUS PADDOCKS



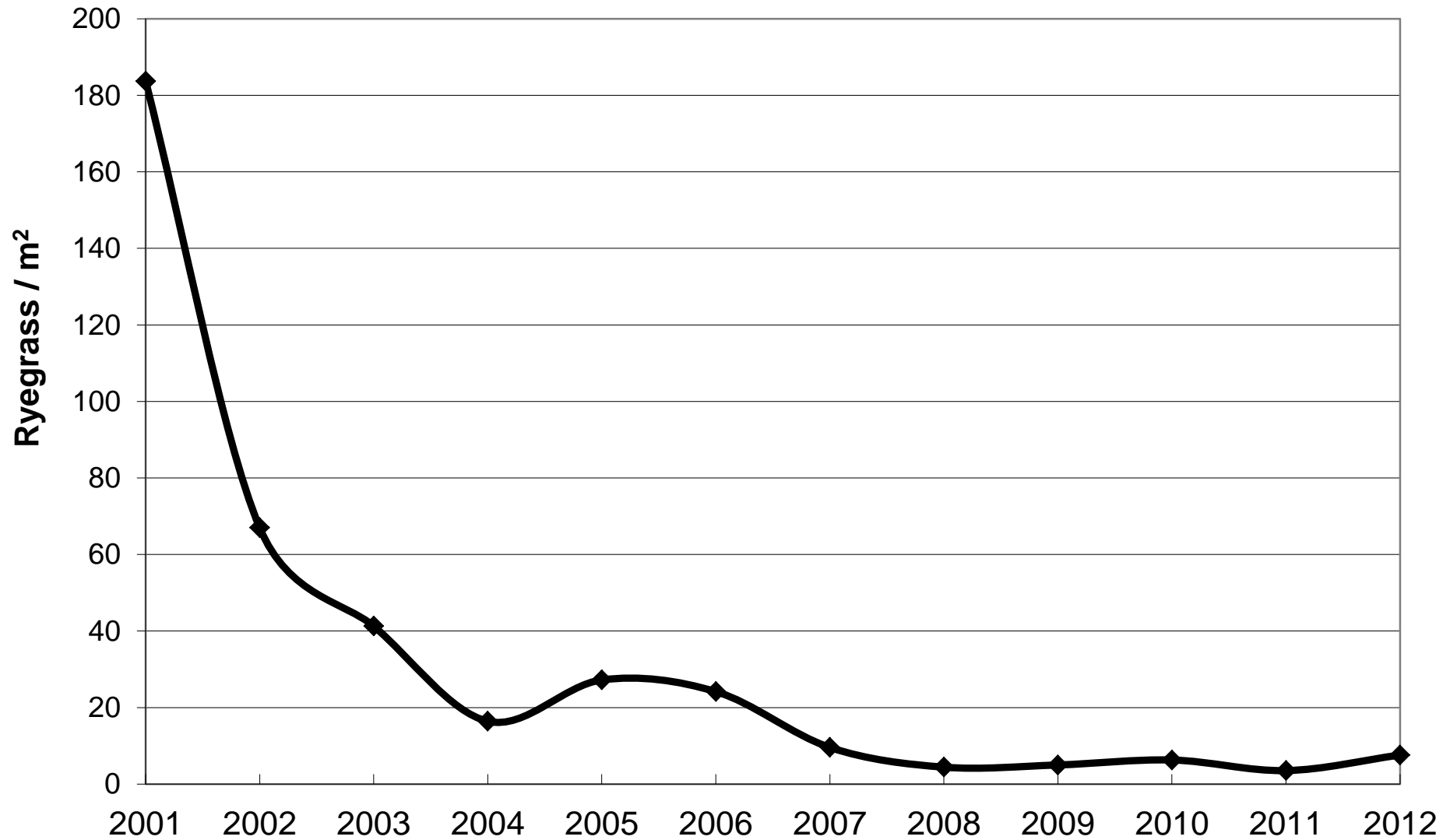
2nd Edition 2009

Case studies of
Integrated Weed Management

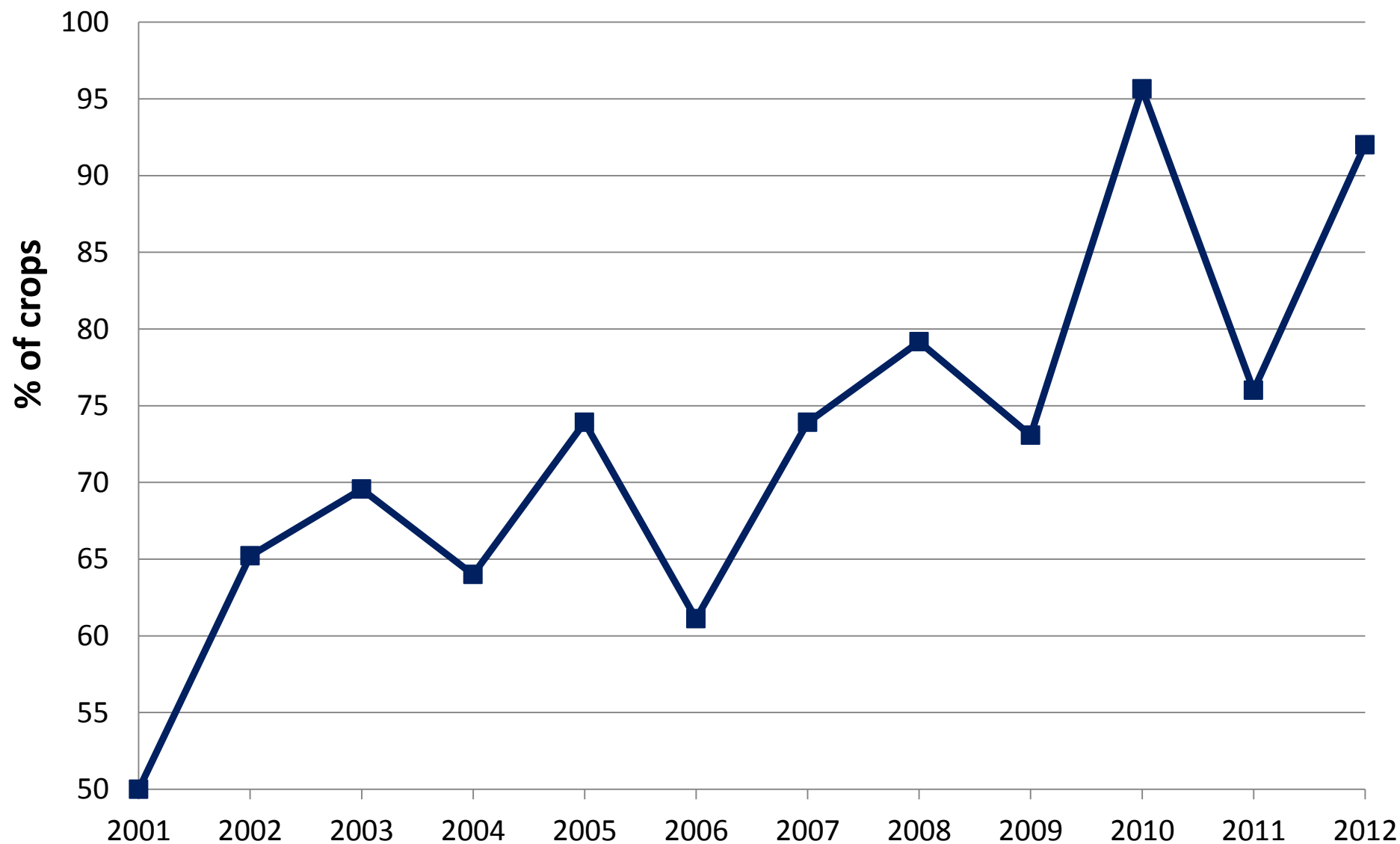


Peter Newman
Department of Agriculture and Food
Geraldton

Average surviving ryegrass in Spring - 30 focus paddocks

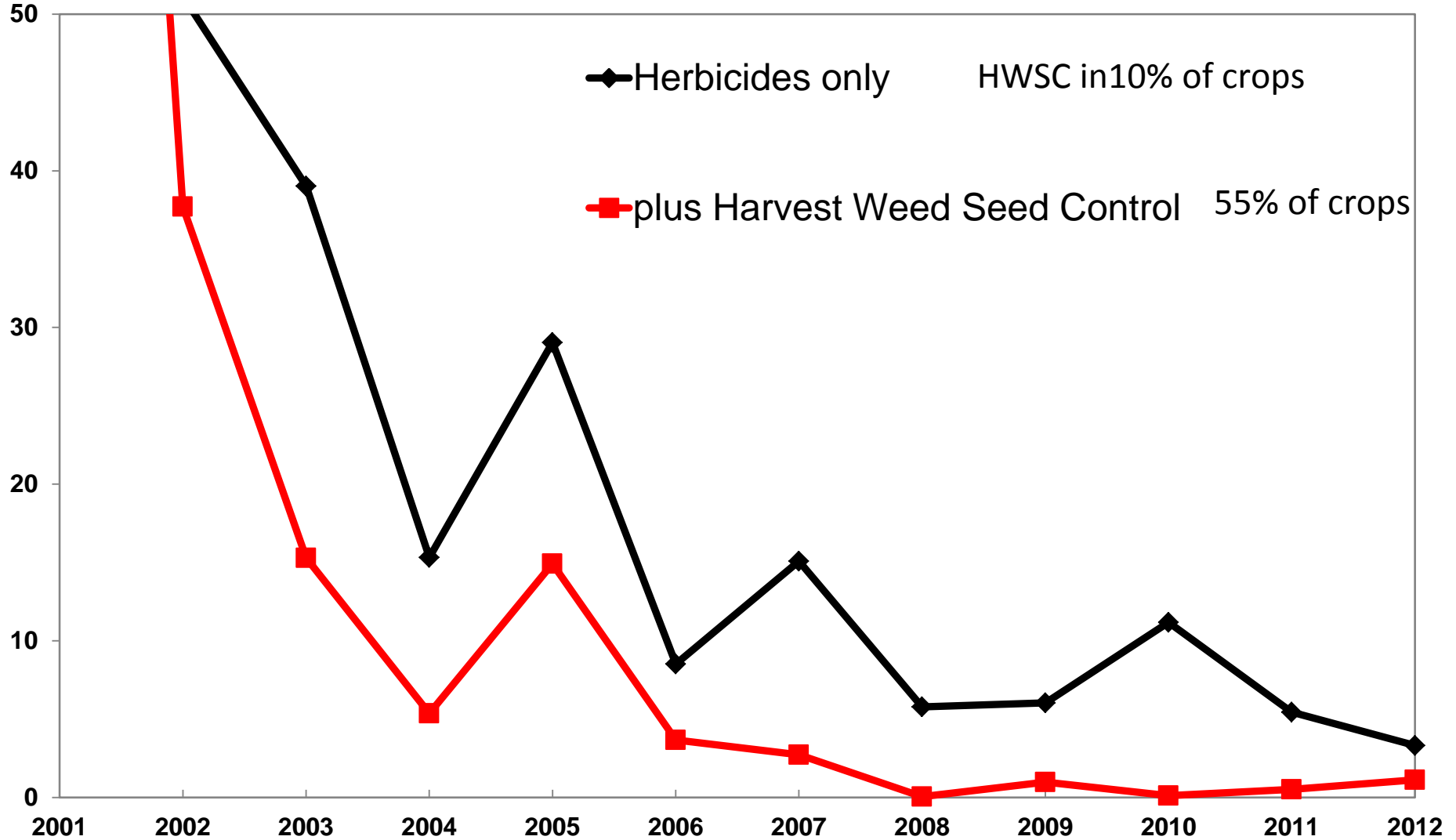


Pre-sowing grass herbicide use





Surviving ryegrass/m² in spring

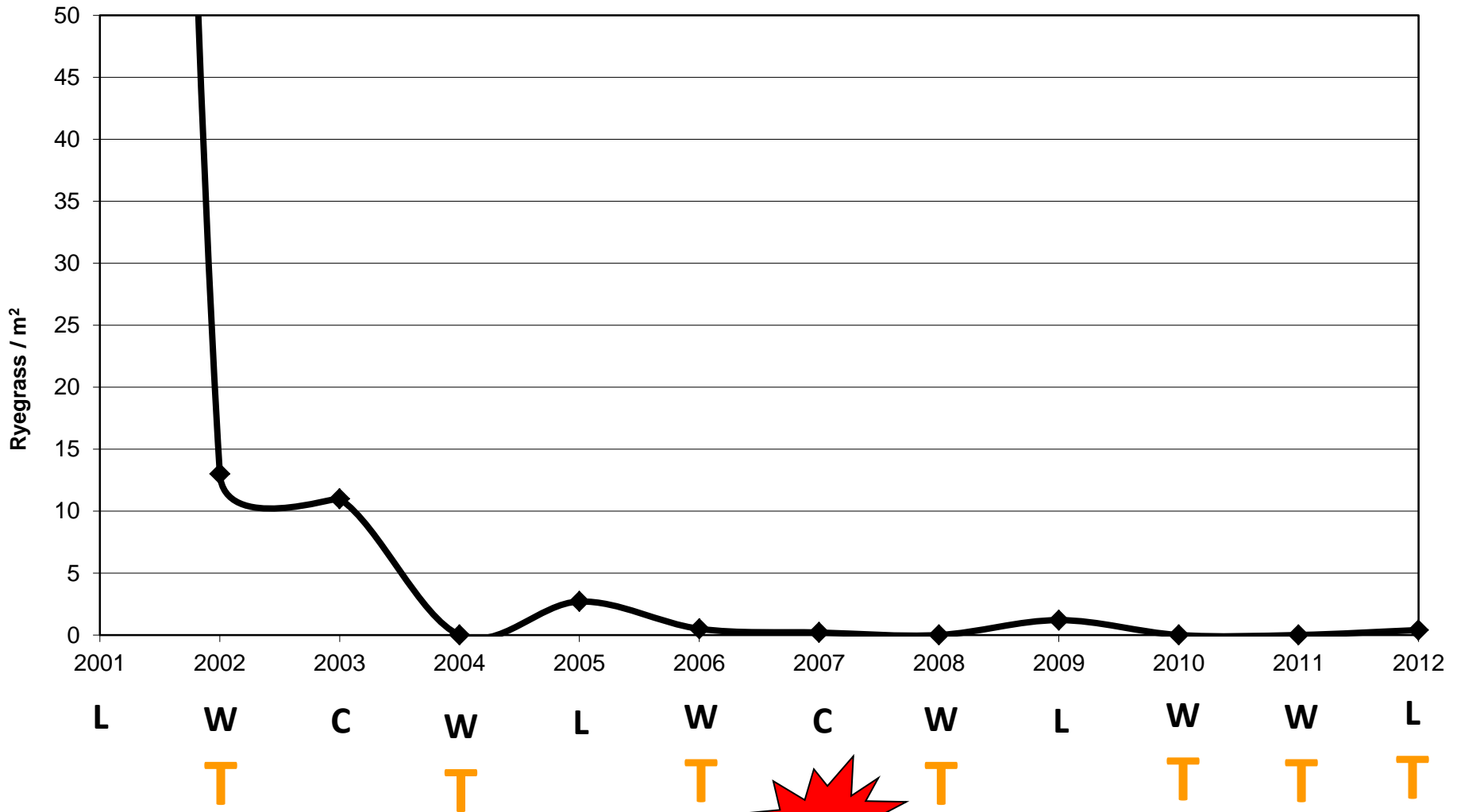




Pasture rotation - 70% crop (average of 5 fields)



Rod Birch - Coorow

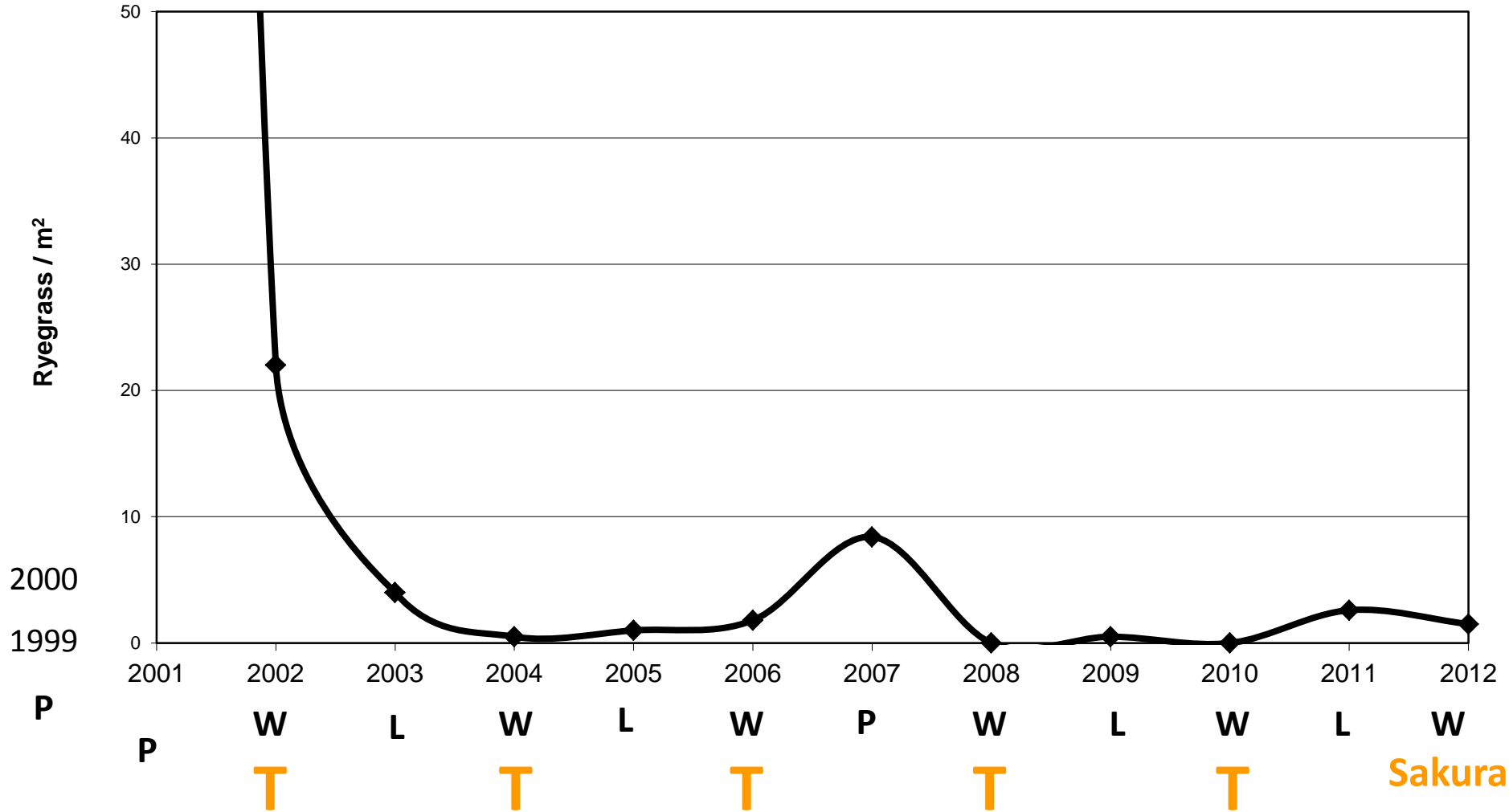


*“We will never declare a cease fire on
the war on weeds”*

Major General Rod Birch

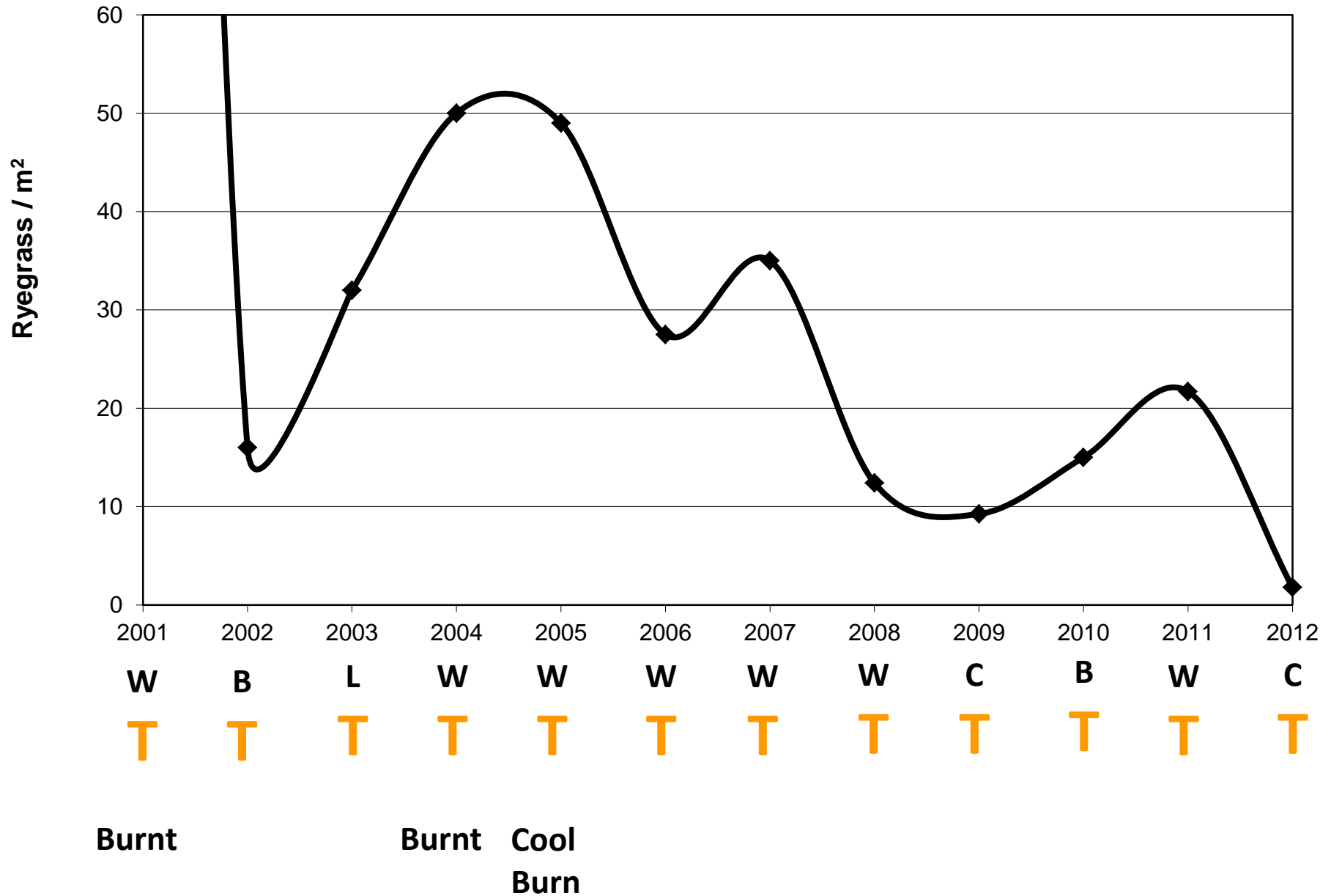


Mingenew

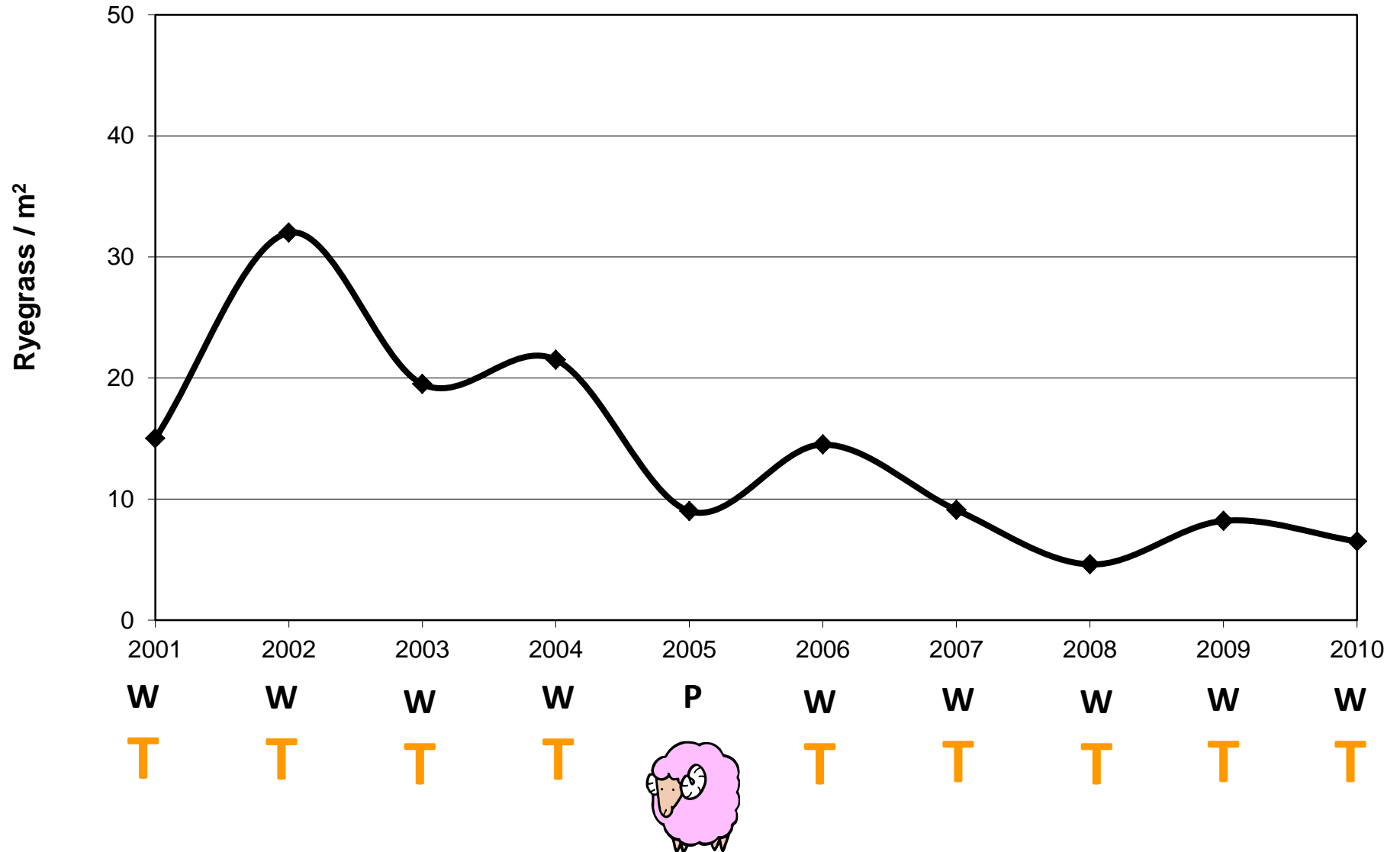




Continuous trifluralin



Continuous trifluralin









57%



Average of 25 samples
(CSBP)

0.6% K

0.65%N





Wheat chaff weighs 75 kg/m^3
 4 m^3 per t grain

Therefore: 300 kg chaff per t grain
= \$3.70 nutrients (N + K) per t grain









Suits large area of high yielding crop



Suitable for all situations – conveyor belt delivery is best



Must move windrows

The next big thing!

Soil Inversion

BACK
TO
THE **FUTURE**







Skimmer

Mullewa 2010

Nil Mouldboard
2.7 t/ha



Mouldboard
3.2 t/ha



Mullewa 2011

Nil Mouldboard
2.8 t/ha t/ha



Mouldboard
3.8 t/ha



Forward – Irwin – Ploughed 2008 Lupin 2010

Nil Mouldboard

105 ryegrass / m²; 1.2 t/ha



Mouldboard

2 ryegrass / m²; 2.1 t/ha



Forward – Irwin Wheat 2011

Nil Mouldboard

30 ryegrass / m²; 2.7 t/ha

Mouldboard

0 ryegrass / m²; 3.8 t/ha



\$70 to \$100 /ha







Seeding

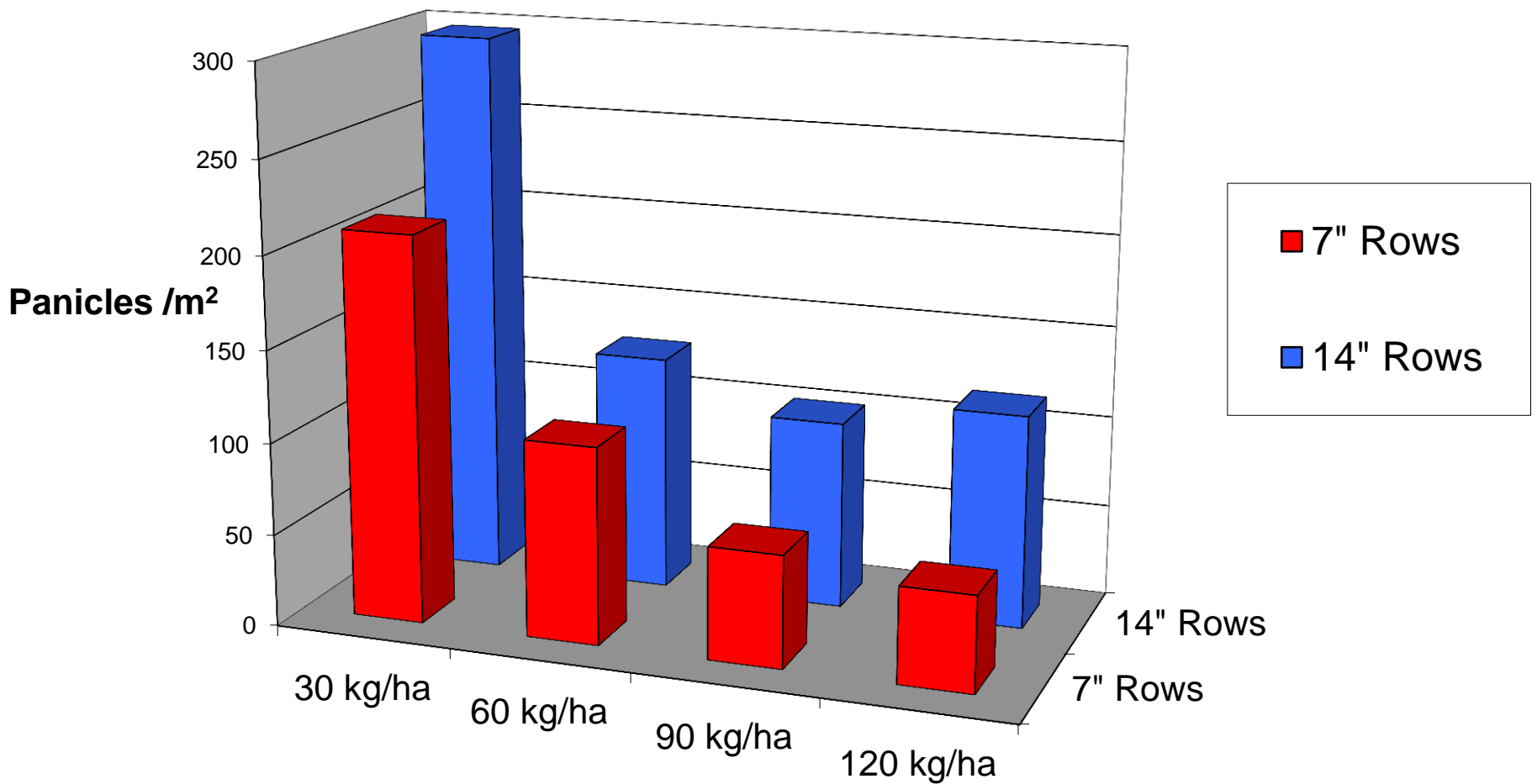


Crop competition

Peter Newman



Brome / ryegrass seed heads /m²











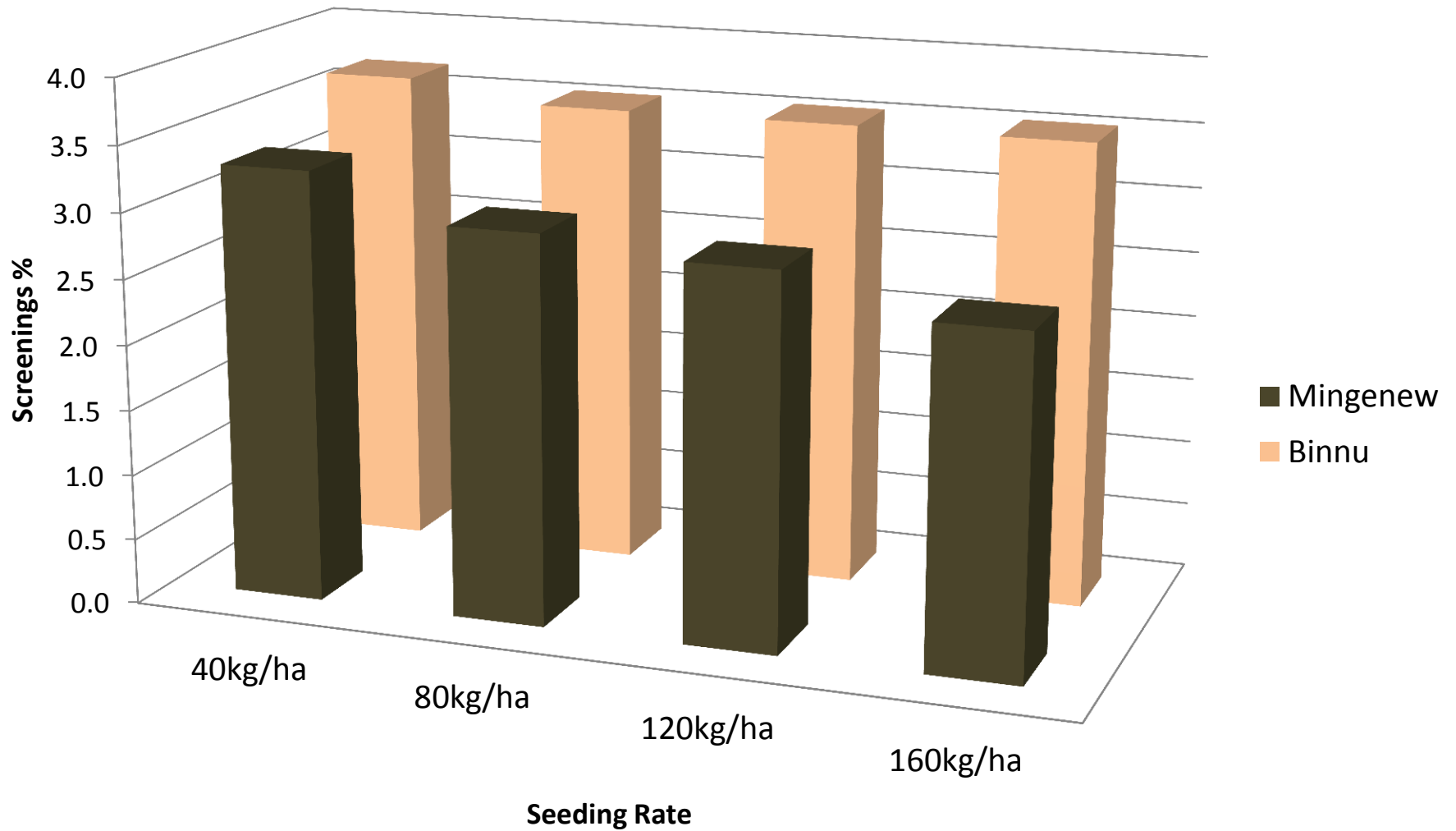




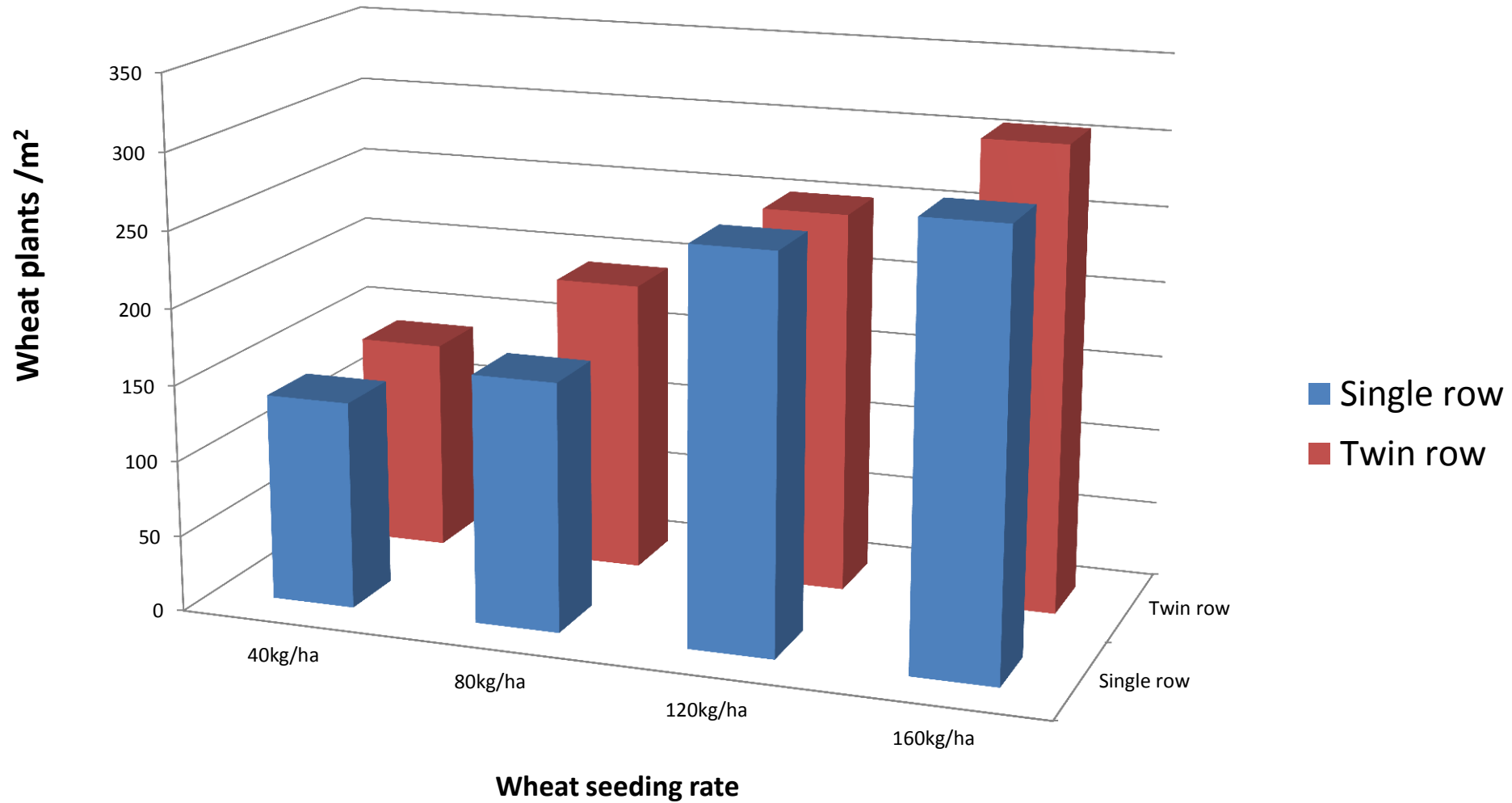




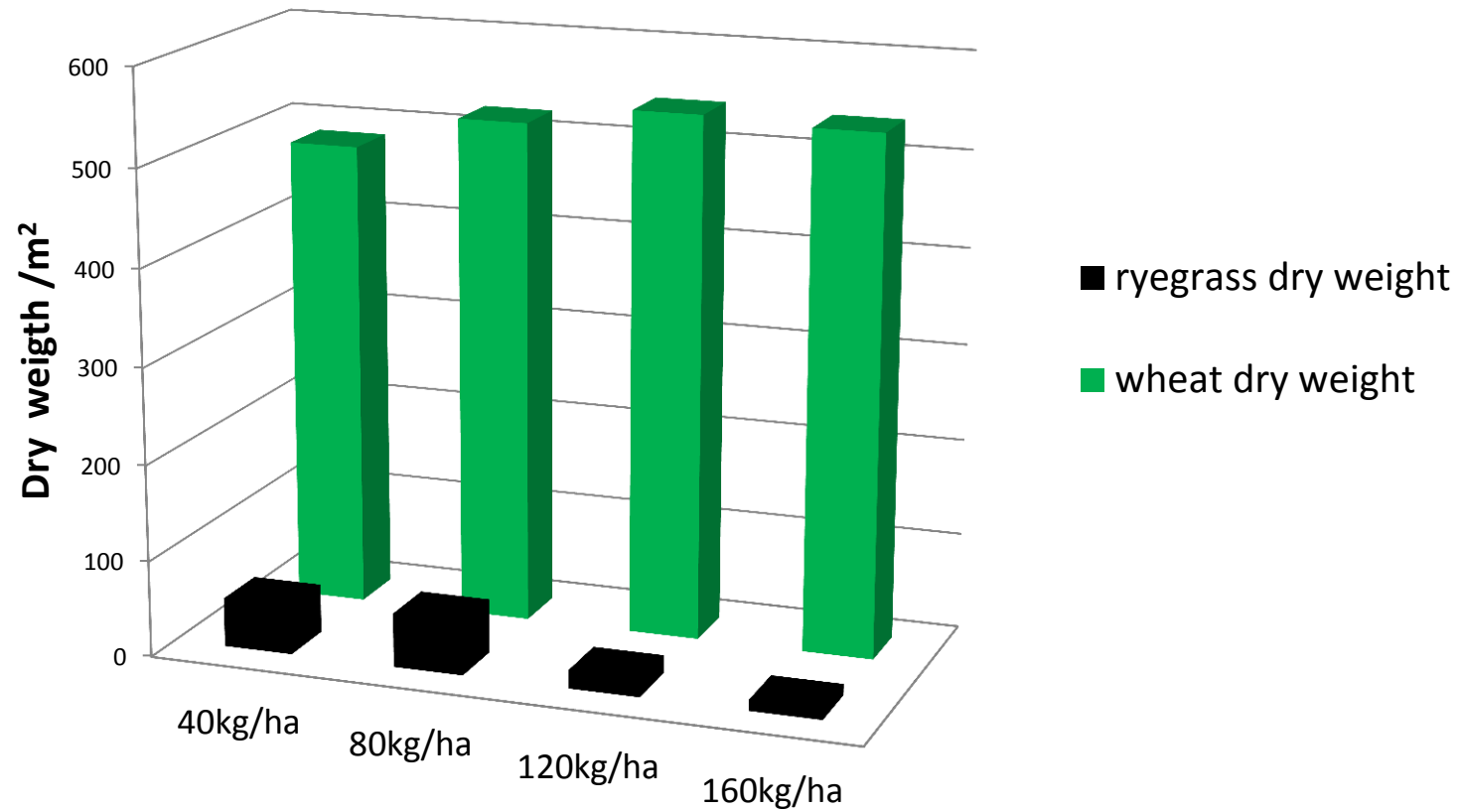
Screenings %



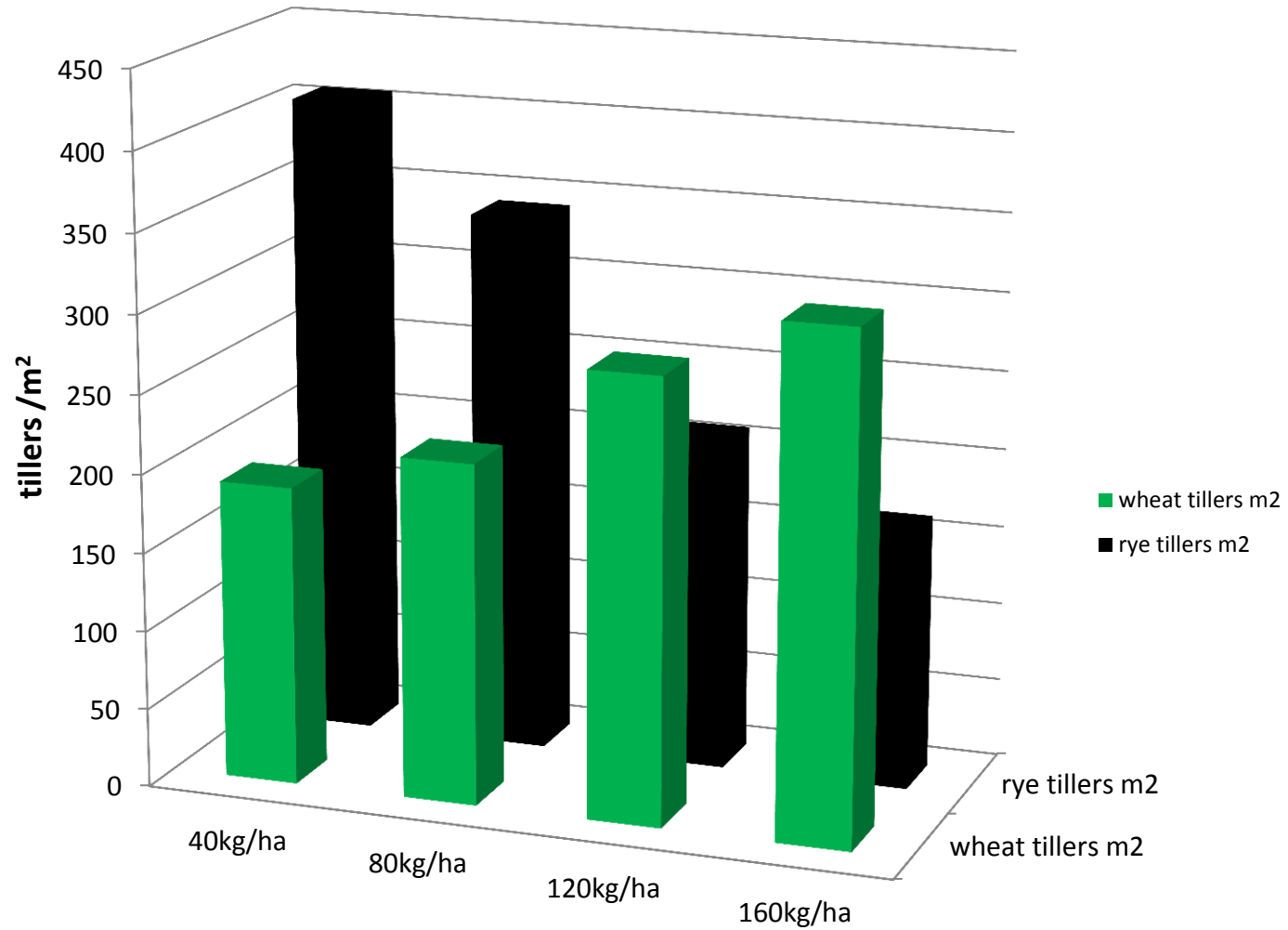
Wheat plant density - MIG stiletto trial



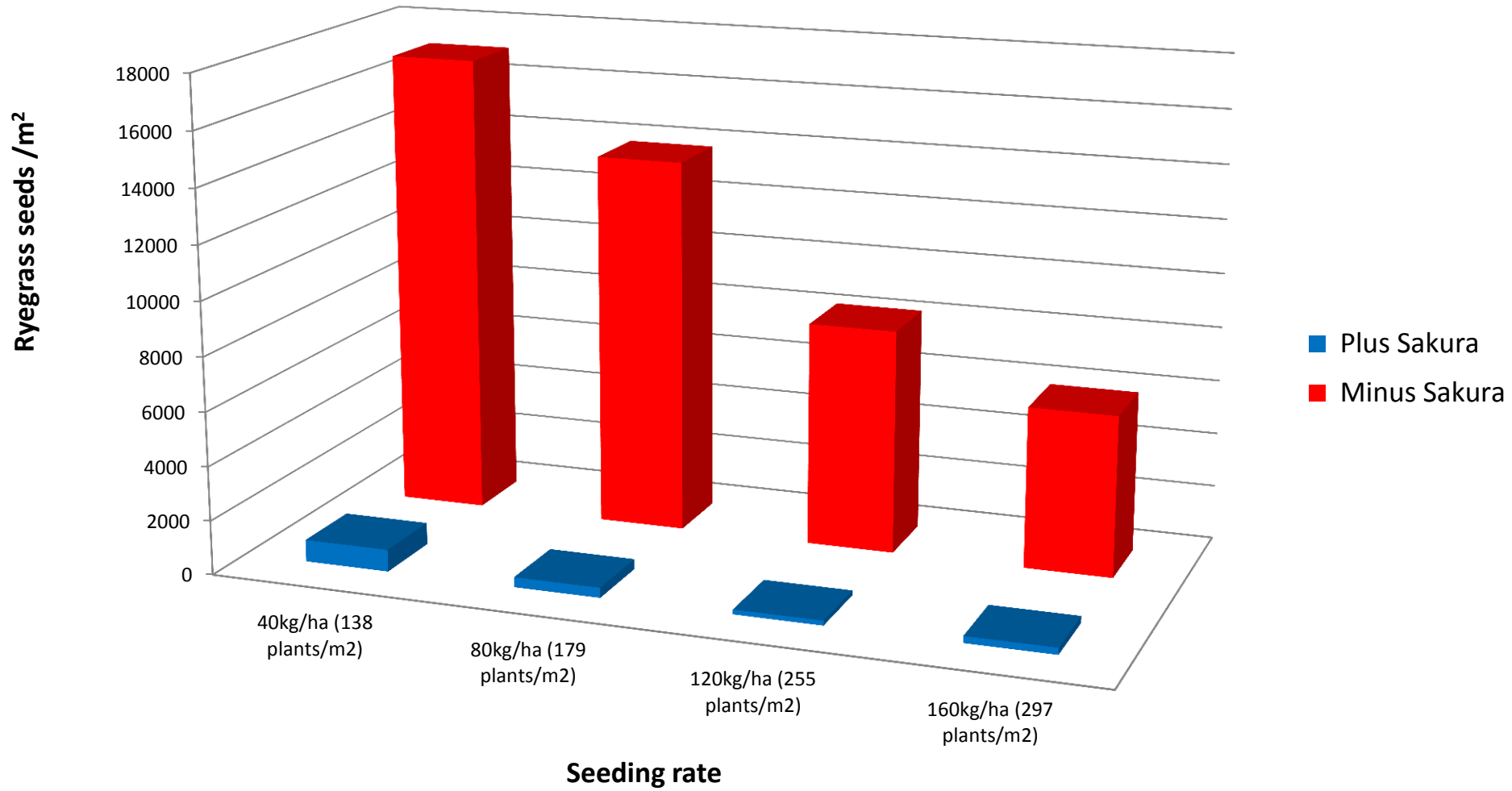
Biomass - average of plus and minus sakura



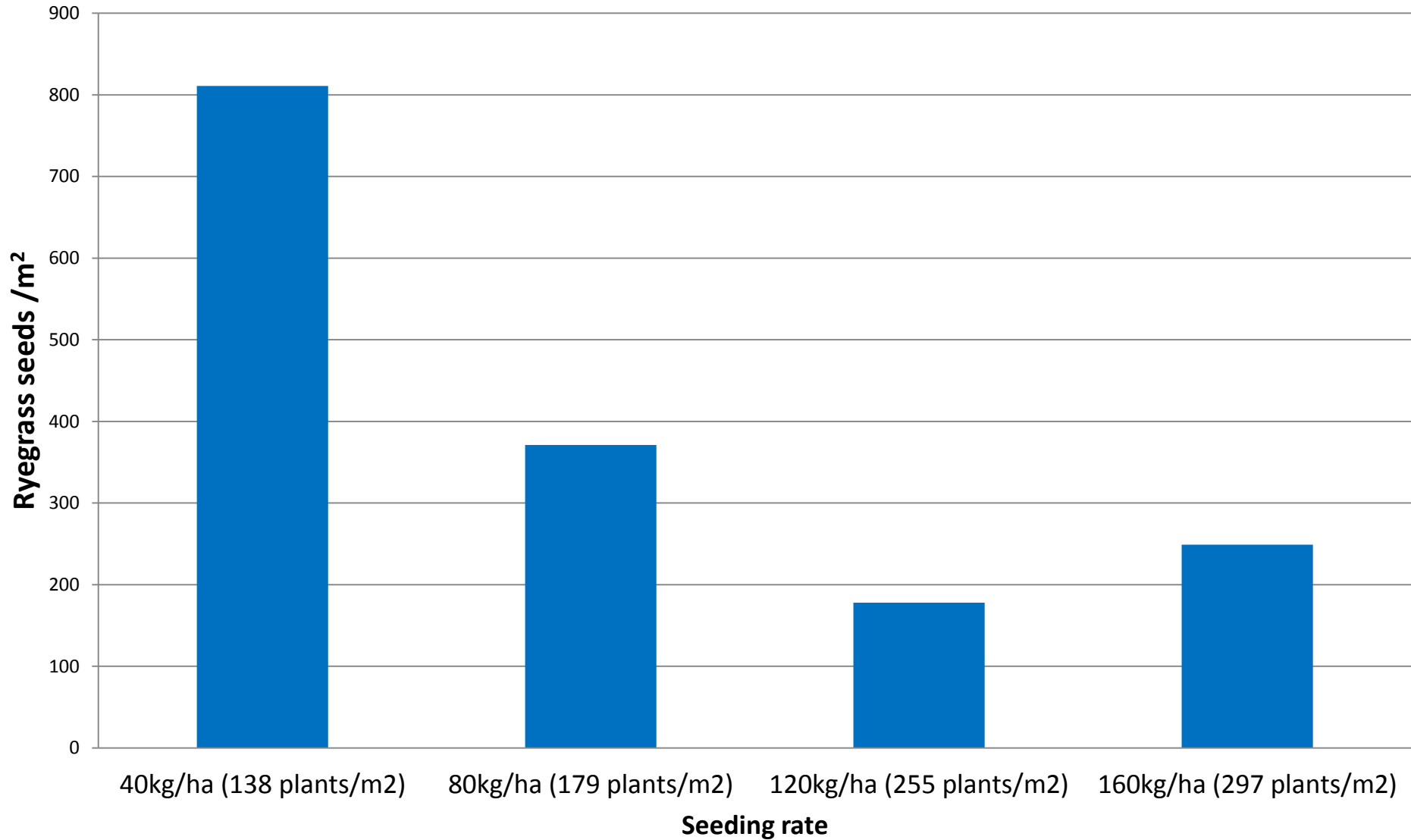
MIG Stiletto - nil sakura



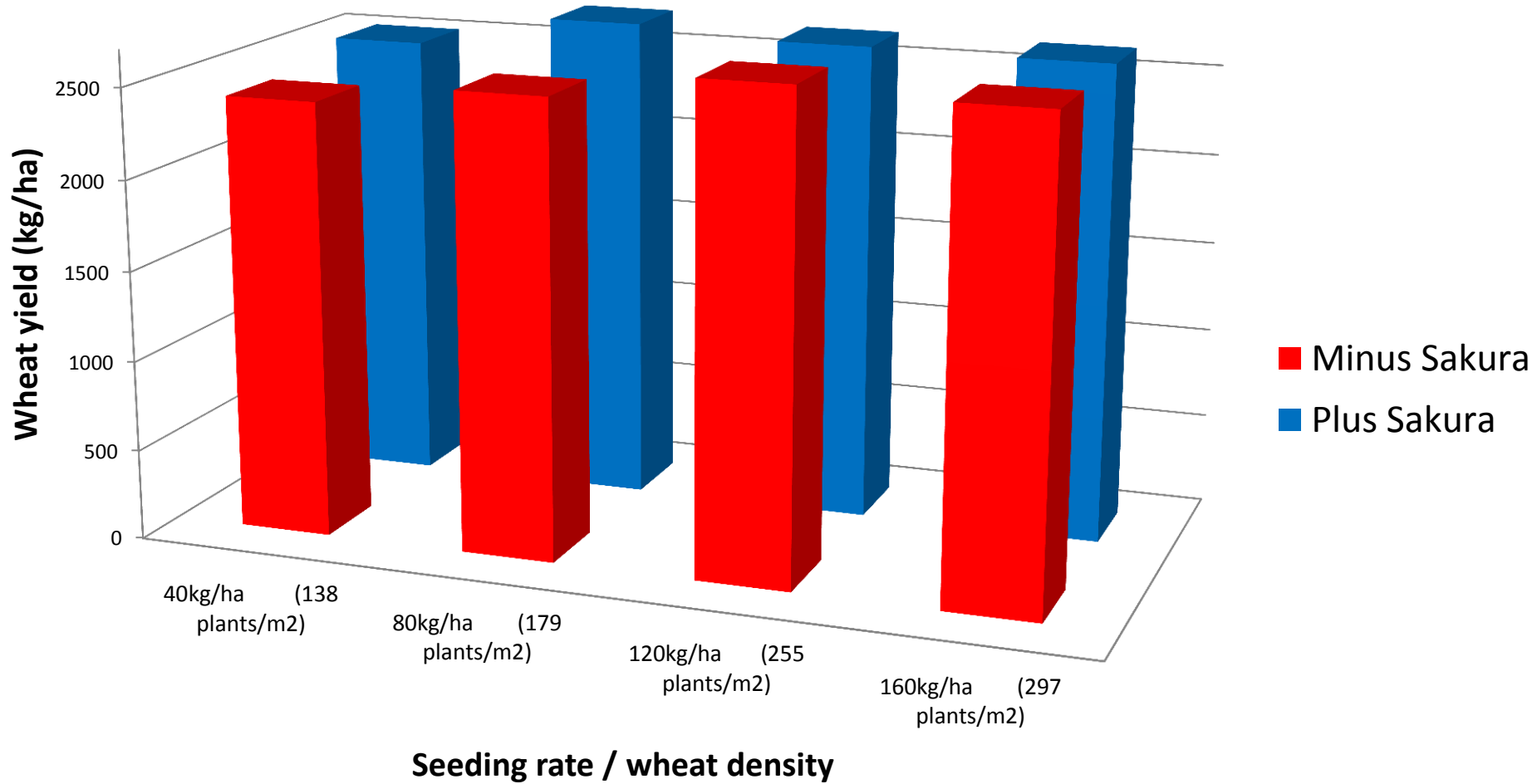
Ryegrass seed set /m²



Ryegrass seed set / m² -Plus Sakura



MIG Stiletto - Wheat yield





40 kg/ha
minus Sakura



160 kg/ha
minus Sakura

What about Radish?

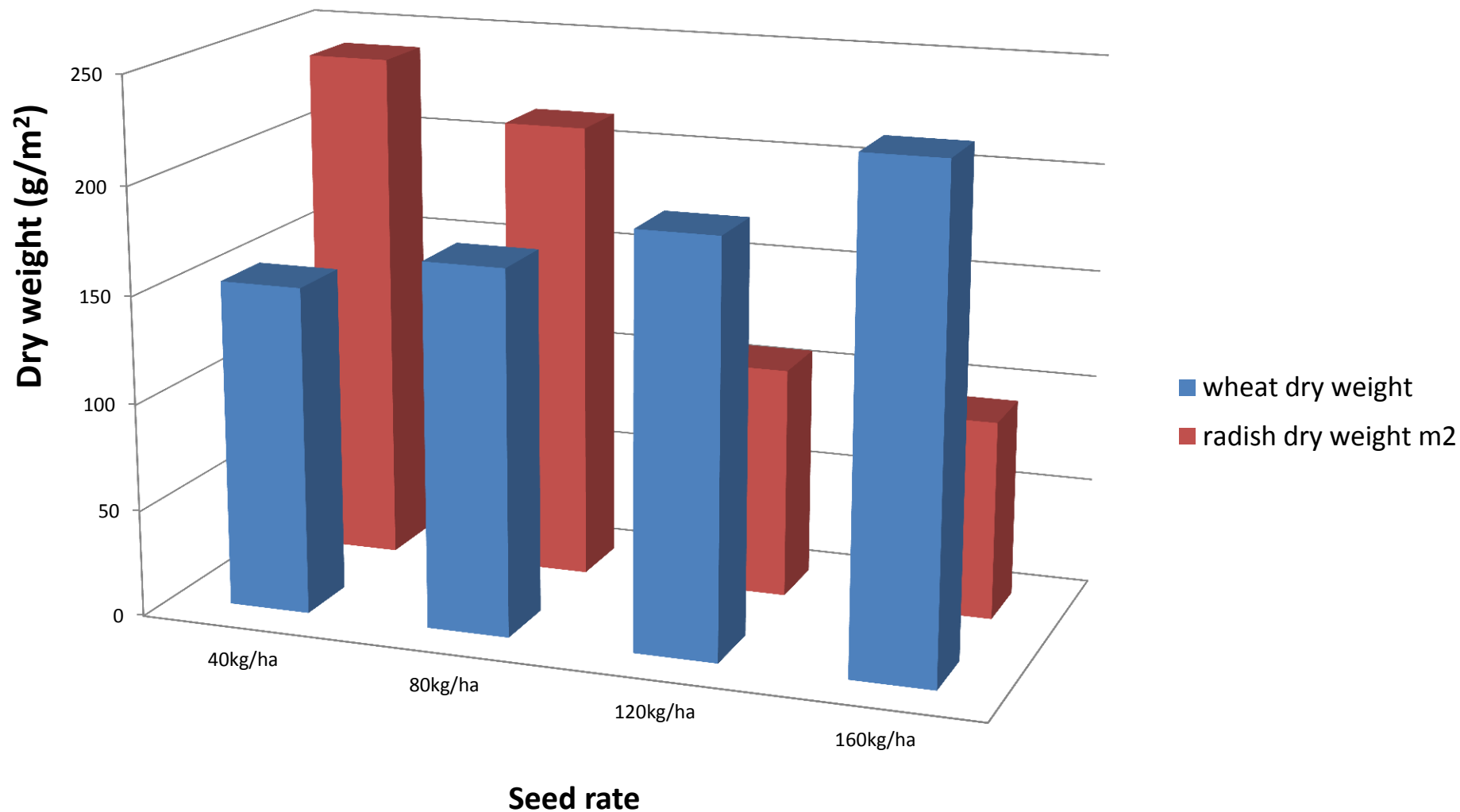
40 kg/ha



160 kg/ha



NAG stiletto - wheat and radish dry weight - 13 Sept





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To receive regular updates on AHRI research and other info about herbicide resistant weeds

Thank you

