# Sustainability of no-till and related global knowledge transfer experiences

BCPC 56<sup>th</sup> Annual Weed Review Sophi Taylor Building, NIAB, Cambridge



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#### **Background**

- •560Ha All Arable, family farm with Dad & Uncle
- •2 Distinct Soil Types:
  - Blacktoft Series Silty Loam & Foggathorpe Series (Mg) Clay
  - We are only 2 meters above sea level!
- Cropping: Winter Wheat, Oilseed Rape, Winter Beans, Spring Barley, Linseed
- Do own agronomy, on BASIS & FACTS Professional Register
- Annual Rainfall 625mm
- •100% No-till, apart form subsoil & mole drain as required
- 2016 Nuffield Scholar

# #Nuffield16







- •Improve crop production economics: reduce labour, fuel, machinery costs = increased profit
- •Increase available soil water (particularly in dry climates such as Australia)











Depth of 1840.

Depth of when we 1994.

24"

30"

54"

60"

# No-till it's simple . . . Stupid!







#### Conservation Agriculture



Minimum/no soil disturbance

Permanent soil cover (residue/cover crop) Plant diversity/crop rotations



# Knowledge Transfer Knowledge Exchange



EDUCATION LABORATORY STATE UNIVERSITY



#### **University Extension**





### Take Action





"More crop, less weeds – sustainably"

The example we should be following?







'we aim to give the audience what they need, not just what we have'





Pre-Emergent Herbicides 101

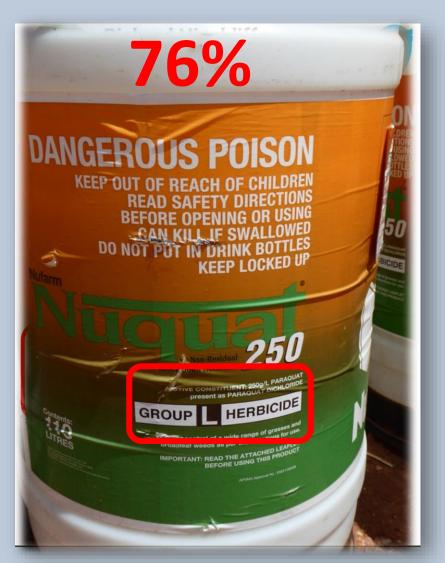
with Chris Preston, Mark Congreve & Peter Newman



in Wagga Wagga

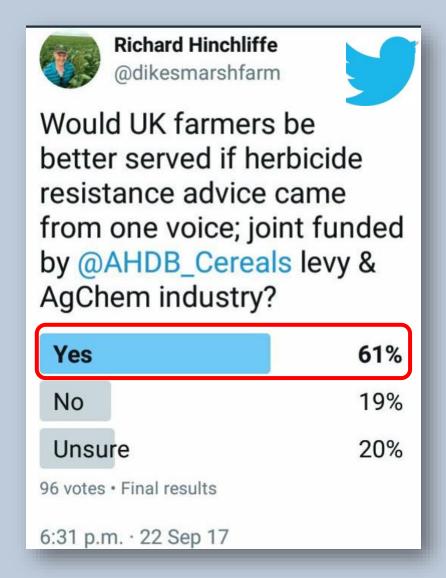
THANK-YOU!

# Recommendations (1)



- Herbicide boxes and labels should have the Herbicide Resistance Committee (HRAC) classification group shown on them to aid herbicide rotation
- The agrochemical industry should help to educate farmers and agronomists about the HRAC classification system

# Recommendations (2)



Industry recommendations for herbicide resistance needs to come from 'one voice' similar to the Weedsmart initiative in Australia, with funding from growers' AHDB Cereals & Oilseeds levy and the agrochemical industry.

# Thank you for listening

