Australian National Agricultural Statistics Review (NASR) and SEEA AFF

Australian Agricultural Statistics Going Forward

London Group meeting, Oslo, 28-30 September 2016

www.abs.gov.au

Presentation Outline

- What is NASR?
- Enduring goals for Australian agriculture
- Data themes related to these goals
- How SEEA AFF framework can address NASR recommendations
- “Big data”

National Agricultural Statistics Review (NASR)

- Assessment of agricultural statistical system
  - Statistical assets
  - Stakeholders
  - Statistical infrastructure & governance
  - Principles of operation

- Stakeholder feedback
  - “Red tape” burden
  - Quality of statistics
  - Statistical infrastructure
  - Coordination and governance

NASR- Principles of best practice

- Strong governance and coordination
  - Ag stats consultative forum
  - Calendar of planned statistical requests
- Clear strategy
  - Foundation dataset
  - System-wide, forward-looking
- Best statistical practice
  - Admin data initiative
  - Maximise data quality, minimise respondent burden
- Investment and use of innovative technologies
  - Coordinated approach from research funders
  - E-forms, remote sensing
  - Improved data processing & access
- Open data
  - Avoid duplication, share output
  - “One-stop” data portal


Competitive and profitable agriculture, forestry & fishing industries
Sustainable natural resource use
Enduring Goals of Australian Agriculture
Prosperous communities
Growing trade and market access
Protecting animal, plant & human health and welfare

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Enduring goals for Australian agriculture

Data themes	
Competitive and profitable agriculture, fisheries and forestry industries	• Resource access, production, productivity, profitability, investment • Inputs and pathways to market (supply chains) • Innovation - Research, development and extension • Labour demand and skills • Business characteristics • Quality measures of goods produced
Prosperous communities	• Employment • Demographics • Services (e.g. health, transport, communications, education) • Community values, attitudes and expectations about agricultural industries (including fisheries and forestry) • Food security
Sustainable natural resource use	• Climate • Land use and land cover • Land tenure, water rights and ownership • Soils, water and marine ecosystems • Biodiversity management • Natural resource management practices and innovation
Growing trade and market access	• Imports / exports • Trade and commerce • Market access • Certification
Protecting animal, plant and human health and welfare	• Quality assurance • Food safety • Regulations, enforcement and surveillance • Chemical use • Animal welfare • Human health and safety • Plant / animal pests and disease management • Managing biosecurity risks

SEEA AFF and Australia

- ABS involved in SEEA AFF development
- Current Agriculture collections substantially address economic and environmental data needs
- Further development on social data
- Some data requires further development at the commodity level
- Limited fishing and forestry data

SEEA AFF and Enduring Goals, possibilities…

- Competitive and profitable agriculture, fisheries and forestry industries
  - SEEA-AFF core tables show production (dollars and tonnes) by commodity
  - Data framework to support a modelled breakdown of farm costs so finer disaggregation of farm value added can be generated
- Prosperous Communities
  - Agricultural employment is a key determinant of prosperity of rural communities
  - Environmental inputs (eg value of permanent water rights provides an indication of market expectations around future water availability)
- Sustainable Natural Resource Use
  - Intensity measures (eg water use per tonne of output, water use per $ of GVIAP)
  - Quality of our resource measures? (eg Nutrient loads changing within water catchments)
  - Increase or decrease in use of fertilisers provides an indicator of changing soil health
- Growing Trade and Market Access
  - Exports (dollars) of various Agricultural products and changes in export performance into certain markets
- Protecting Animal, Plant and Human Health and Welfare
  - Economic value of various economic/environmental assets in areas at risk from certain diseases and climatic events
  - Economic and environmental analysis of opening markets and biosecurity

“Big Data”

- Administrative data from producers
- Industry group data
- Spatial information
- Soil mapping & climate data

- Potential data collections:
  - Inputs (eg fertiliser)
  - Production (eg crop yield)
  - Environmental (eg climate and soil data)

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Thanks for your attention

Questions?