



CAPE YORK ABCD MANAGEMENT PRACTICE FRAMEWORK FOR WATER QUALITY

The ABCD Management Practice Framework was designed over 10 years ago to highlight and facilitate communication about the different levels, or standards, of management practice within agricultural industries, that relate to different levels of water quality (sediment, nutrients, herbicides).

The ABCD Management Practice Framework provides a definition of (and pathway to) improvement from Dated to Better Practices, through to Aspirational or 'cutting edge' practices.

It is important to specify the year of reference for any ABCD Management Practice Framework. Over time, changes in knowledge, technology, costs and market conditions may validate cutting-edge Aspirational practices so they eventually become industry endorsed best management practices within an ABCD Management Practice Framework.

A

ASPIRATIONAL

CUTTING EDGE and/or INNOVATIVE practices that require further validation to determine economic, environmental and social costs/benefits

В

BETTER PRACTICES

Industry endorsed best management practice

C

COMPLIANT

Minimum legislative requirement

D

DATED

Old and/or superseded practices

| D DATED | C COMPLIANT | B BETTER PRACTICES | A ASPIRATIONAL |
|--|---|--|--|
| ABCD AGRICULTURE NUTRIENT MANAGEMENT PRACTICE | | | |
| RATE AND STRATEGY | | | |
| Rule of thumb | Industry wide One nutrient rate for each crop | Property specific One nutrient rate for each crop | Property specific Two nutrient rates for each crop, or Nutrient rates for all soil types and crops applied sub paddock |
| TIMING | | | |
| Without consideration of timing | Without consideration of timing | With consideration of timing | With consideration of timing |
| PLACEMENT | | | |
| Broadcast surface application | Broadcast surface application | Banded surface application, or Subsurface application | Subsurface application, or Fertigation |
| CALIBRATION | | | |
| Never | Once per year | Whenever fertiliser product or application rate changes | Whenever fertiliser product or application rate changes |
| ABCD AGRICULTURE HERBICIDE MANAGEMENT PRACTICE | | | |
| RATE AND STRATEGY | | | |
| Rule of thumb | Non strategic use of residual herbicides | Paddock scale strategic use of residual herbicides | Sub paddock scale strategic use of residual herbicides |
| TIMING | | | |
| Without consideration of timing | Without consideration of timing | With consideration of timing | With consideration of timing |
| PLACEMENT | | | |
| Broadcast application | Broadcast application, or Directed application | Directed application, or Banded application | Banded application |
| CALIBRATION | | | |
| Never | Once per year | Whenever herbicide product changes | Whenever herbicide product changes |
| ABCD AGRICULTURE SOIL MANAGEMENT PRACTICE | | | |
| CULTIVATION STRATEGY | | | |
| Cultivated bare fallow and crop Bare inter-rows | Minimum till fallow and crop 60% inter-row cover | Minimum till fallow, zonal till crop 100% inter-row cover | GPS Zero till fallow, zero till crop 100% inter-row cover |
| TIMING | | | |
| Without consideration of timing | Without consideration of timing | With consideration of timing in high risk periods | With consideration of timing throughout year |
| CONTOURS, DRAINS AND ROADS | | | |
| No erosion control measures in paddock, drains and roads | Some erosion control measures in paddock drains and roads | Some erosion control measures in paddock drains and roads | Erosion control measures designed for a: 50 mm/ha runoff storm event, or 75 mm/ha runoff storm event |



DEVELOPMENT OF THE ABCD AGRICULTURE FRAMEWORK

A new agriculture management framework for the Cape York region was developed as part of the Eastern Cape York Water Quality Improvement Plan. This new framework has been developed to better represent agricultural management practices that are applicable in the Cape York region.

The development of regionally specific management practice frameworks began over 10 years ago in the Mackay-Whitsunday, Burnett-Mary, Burdekin, Wet Tropics and Fitzroy regions of Queensland. The development of a new agriculture framework specifically for Cape York means that local management practices are better represented.

The framework is intended to support rather than duplicate industry BMP (Best Management Practice) processes and as a result does not present an exhaustive list of management practices. The main management practices that influence water quality (sediment, nutrients and herbicides) are represented.

The agriculture management practice framework is broken into three broad management areas: nutrient management practice, herbicide management

practice and soil management practice. Within each of these broad management areas, the framework is broken into categories such as strategy, timing, placement and calibration.

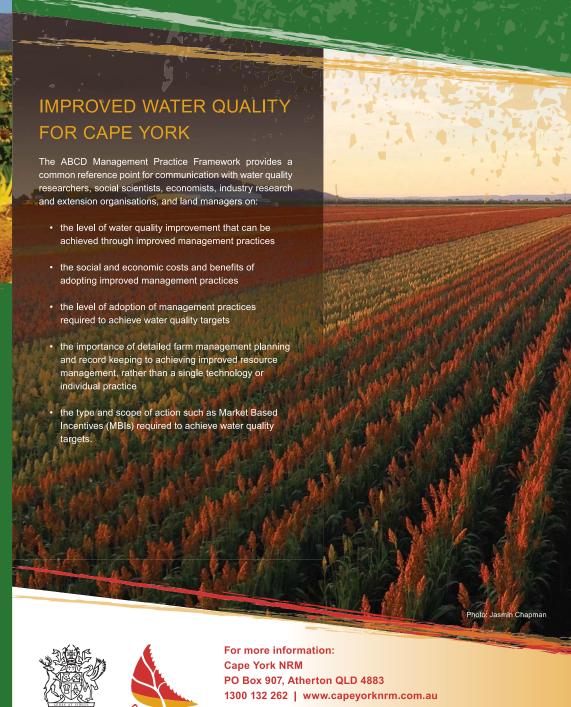
A separate irrigation management framework is not presented. However, irrigation scheduling, based on soil water status and crop requirements, should be considered as part of nutrient and herbicide management.

It can be used to support the development of property-specific action plans:

- through benchmarking current management practices used within properties, and
- by identifying management practices that could be adopted in specific sections of properties to improve water quality.

However, it is important to note that growers have identified that there will be a need to adopt practices across several levels to successfully manage and operate their agricultural enterprise on a year-to-year basis

Government



This project is supported by the Queensland Government Department of Natural Resources and

Mines through the Queensland Regional Natural Resource Management Investment Program.