



# Buffer Zones Update

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Classification: INTERNAL USE ONLY

# Summary

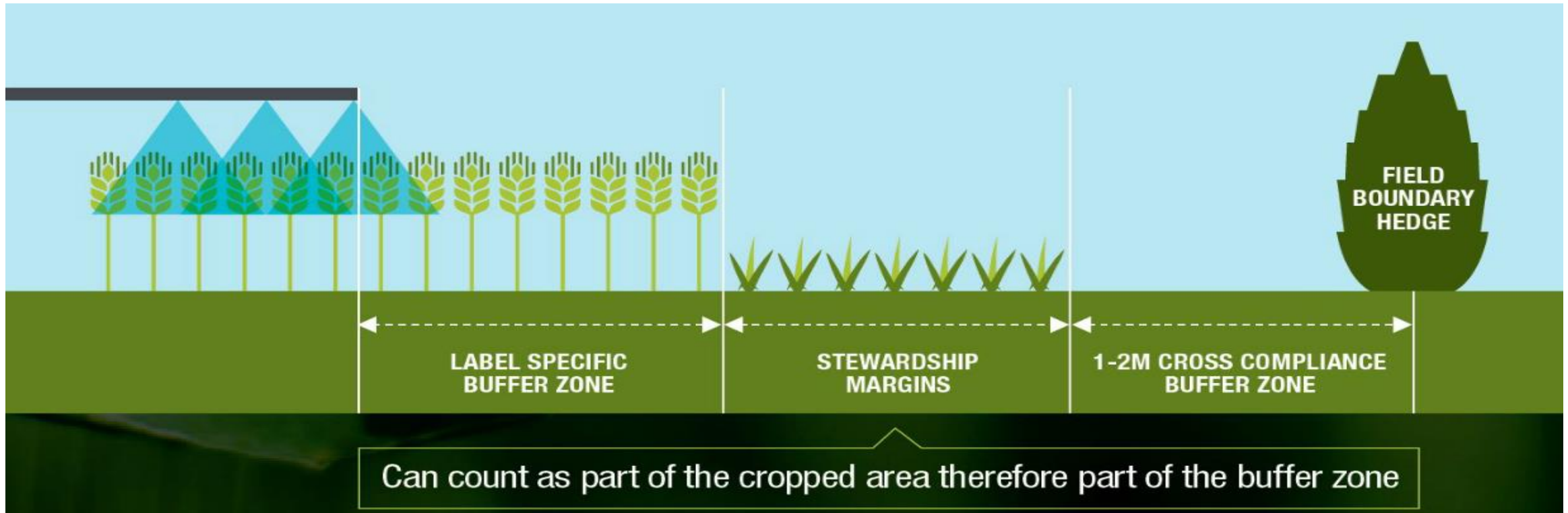
- A buffer zone is 'no spray' area alongside a water course, ditch or field boundary
- Buffer zone schemes:
  - Arthropod
  - LERAP A + B
  - Interim Scheme (Aquatic)
  - Drift Reduction Technology Scheme (Zonal Harmonisation)

## Arthropod Buffer Zones - Overview

- Designed to protect arthropods and non-target insects
- Applies to all field boundaries
- Label specific
- Some boundaries must be adhered to (statutory), others are advisory (non-statutory)
  - Statutory - product is deemed a 'high risk' to non-target insects - buffer zone **must be** implemented:
    - Key words on label include **'respect'** and **'DO NOT'**
  - Advisory - recommends the use of a buffer zone to protect non-target insects:
    - Key words on label include **'avoid'** and **'precautions'**
- Buffer zone is defined as the field boundary or the edge of the non-cropped land (land taken out of permanent production (5 years or more) check label
- Buffer zone can vary depending on crop type

# Arthropod

- Any boundary
- Label specific in size
- Non-reducible
- Crop specific



# LERAPs

- **Local Environment Risk Assessment for Pesticides**
  - Designed to protect 'aquatic life'
  - Statutory requirement at application by operator
  - Record sheet must be kept for 3 years
  - Category A – buffer zone 5m non-reducible
  - Category B – buffer zone reducible
    - Width of water course
    - Product dose rate
    - Sprayer or nozzle LERAP star rating
  - Dry ditch – buffer zone 1 metre with cross compliance strip

## Category 'LERAP A'

Buffer zone 5m non-reducible

**Cannot** be reduced, unless:

- Ditch is dry – to 1m



## Category 'LERAP B'

Can be reduced to 1m if any 1 of :

- Ditch is dry
- 3\* application technology used
- $\frac{1}{4}$  maximum dose rate

Or 2m if:

- Width water course >6m
- 2\* application technology used



## Interim Scheme ('Aquatic Buffer')

- Designed to protect 'aquatic life'
- Dependant on crop types
- < 5m on product label reducible buffer zone with LERAP
- 6-20m on product label non-reducible buffer zone
- Dry ditch – buffer zone 1 metre with cross compliance strip



## Interim Scheme (Aquatic Buffer) ≤ 5m on product label

Can be reduced to 1m by carrying out a LERAP:

- Ditch is dry
- 3\* application technology used
- ¼ maximum dose rate

Or 2m if:

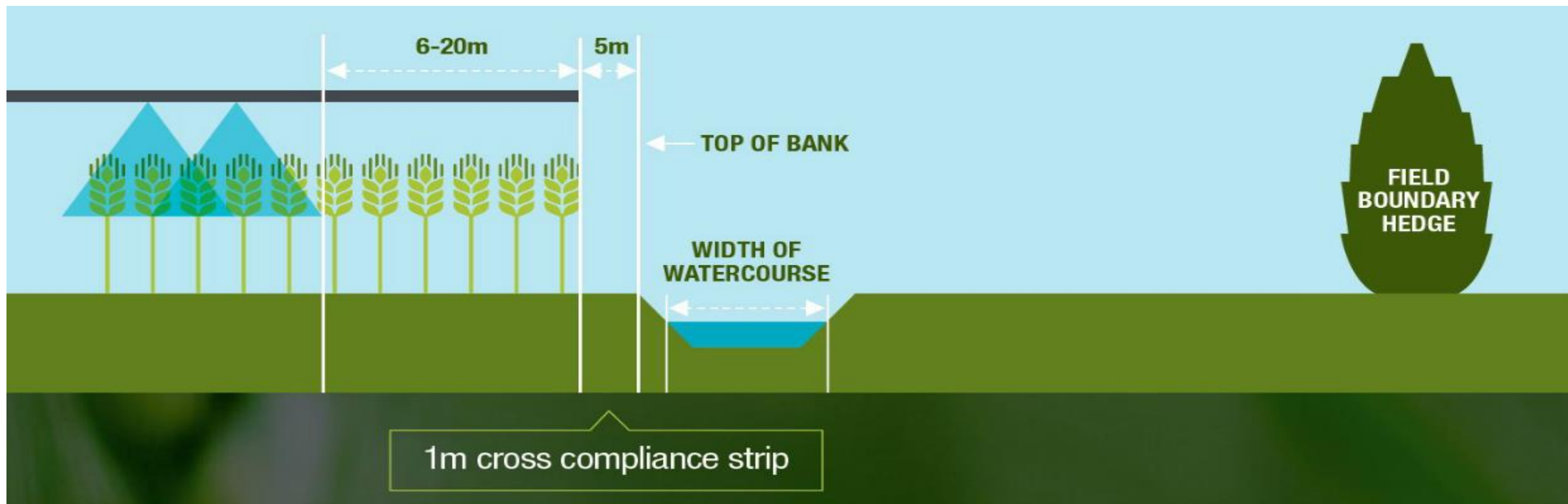
- Width water course >6m
- 2\* application technology used



## Interim Scheme (Aquatic Buffer) 6-20m on product label

Cannot be reduced

Distance can vary depending on crop



## Drift Reduction Technology Scheme (Zonal Harmonisation)

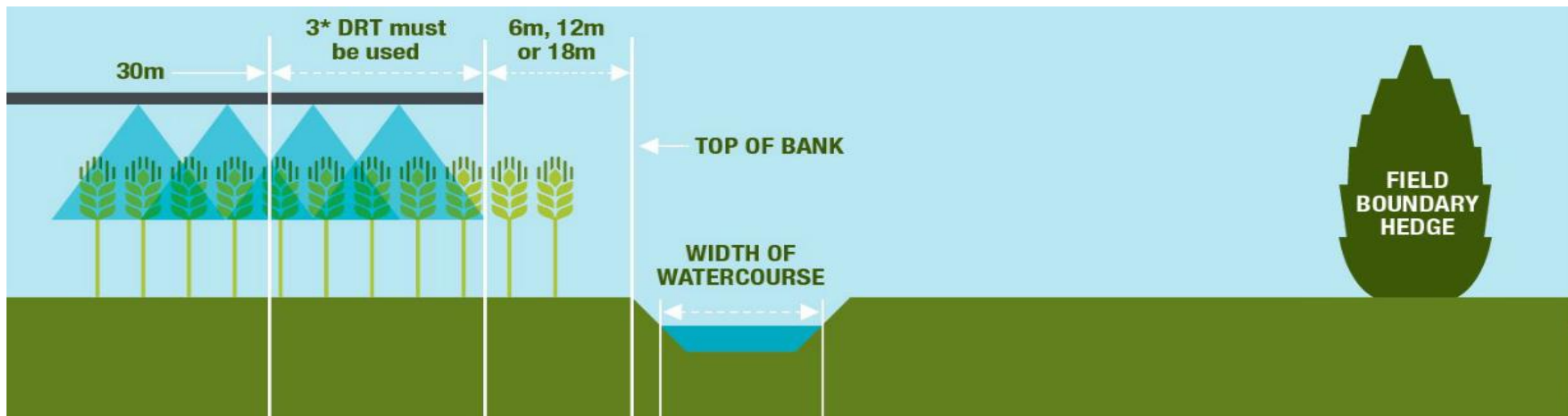
- Attempting to standardise application techniques across EU
- Used to prevent re-registration failure of products that may have been banned due to water issues
- Irrespective of watercourse width/size
- DRT buffer stipulated on label of either 6m, 12m or 18m – non-reducible
- Secondary buffer zone of 30m - reducible using 3 star DRT

# Drift Reducing Technology Scheme (Aquatic Buffer)

6m, 12m or 18m **Cannot** be reduced

Up to 30m – 3\* DRT

Distance can vary depending on crop



# LERAP Approved Syngenta Nozzles

*'Maximum efficacy combined with optimum drift reduction ensuring delivery of product to the target'*

- DEFY 3D nozzles
  - 04 and 05-3\* LERAP approved
  - 03 and 035-2\* LERAP approved
- AMISTAR (Guardian Air) nozzles
  - 015 to 05-3\* LERAP approved



Note: Approved LERAP rating at 0.5m boom height, varying pressure dependent upon size and nozzle orientation