TITAN CAZONE HERBICIDE

400 g/L Carfentrazone-ethyl

TITAN Cazone Herbicide is an Australian developed and easy to handle emulsifiable concentrate (EC) formulation of Carfentrazone-ethyl (400 g/L) registered for desiccation of potato leaves to aid harvest.

Delivering reliable results, even in difficult conditions, TITAN Cazone provides controlled and rapid defoliation of leaves and fast stem kill without stem end browning. This results in better skin set, minimising bruising and maintaining resistance to post-harvest rot, and improved stolon detachment for reliable tuber size management.

WHAT MAKES TITAN CAZONE UNIQUE?

TITAN Cazone has been developed in Australia, with replicated trials across Australia's cropping landscape demonstrating bioequivalence to industry standards, as well as crop safety. TITAN Cazone is a high quality formulation providing reliable and consistent performance.

KEY FEATURES & BENEFITS

- ✓ Can be used on all potato varieties, including seed potatoes
- ✓ Reliable and consistent performance, even under adverse conditions
- ✓ Controlled, rapid defoliation of leaves and quick stem kill with no stem end browning
- ✓ Better skin set, essential for bruise management
- ✓ Increased stolon detachment
- ✓ Reliable control of tuber size

AT A GLANCE

USE PATTERNS:	**Single application:** In light to medium density crops which have started to senesce, a single application may be sufficient to allow harvest to occur. **Split application:** In dense and still actively growing crops where no natural senescence is evident, a split application at least 7 days apart may be required for satisfactory haulm control. The first application (115 to 150 mL/ha) allows burn down of most of the tops and the follow up application (115 to 150 mL/ha) will help complete desiccation of the leaves and provide better burn down of the stems.
FORMULATION TYPE:	Emulsifiable concentrate (EC)
ACTIVE INGREDIENT:	400 g/L Carfentrazone-ethyl
APPLICATION RATE:	115-150 mL/ha + TITAN Duelling Spray Adjuvant Use the higher rate when the crop is dense, vigorous or actively growing with little evidence of senescence.
HERBICIDE MOA GROUP:	Group 14
HERBICIDE MOA GROUP:	TITAN Duelling Spray Adjuvant

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TITAN AG CROP PROTECTION

INDEPENDANT TRIAL DATA

TITAN Cazone was developed in Australia and trialled across various geographical areas and varieties. In all trials it has been equivalent or better to industry standards with regard to desiccation, as well as potato skin set, with no vascular discoloration (a measure of crop safety).

SINGLE APPLICATION, TASMANIA, CV. NICOLA

A trial in Forth, Tas, in cv. Nicola potatoes demonstrated bioequivalence of TITAN Cazone compared with two industry standards for pre-harvest desiccation.

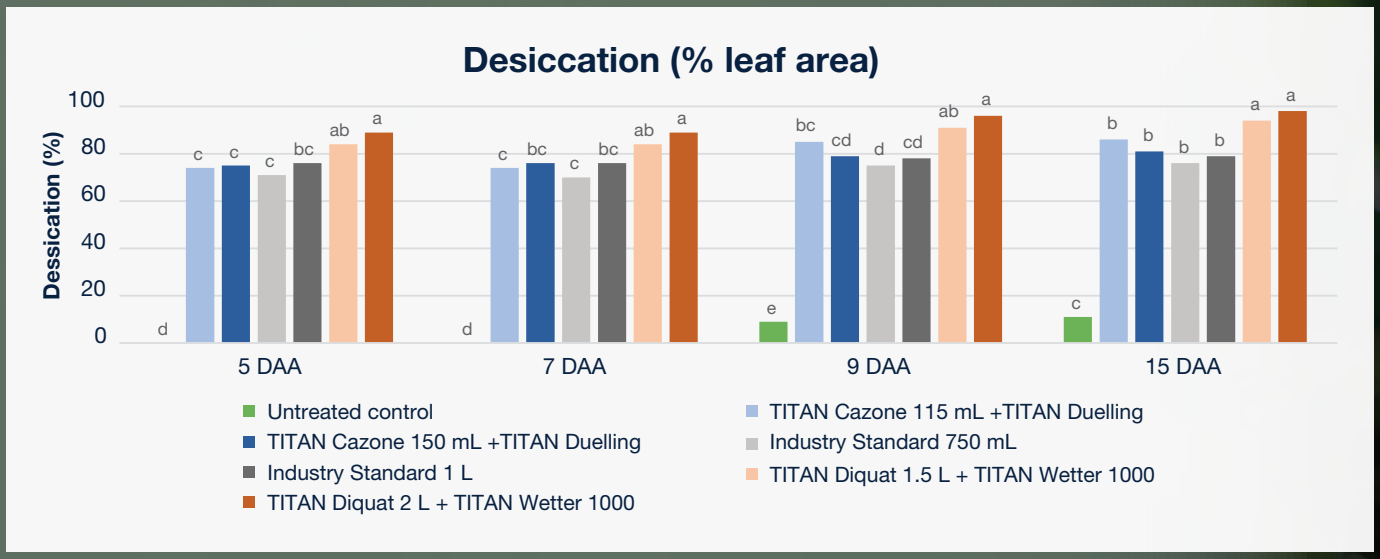
The site was characterised by clay red ferrosol soil and conditions were mild with rainfall supplemented by overhead irrigation. The trial was managed as a randomized complete block design and managed by Arvensis Research.

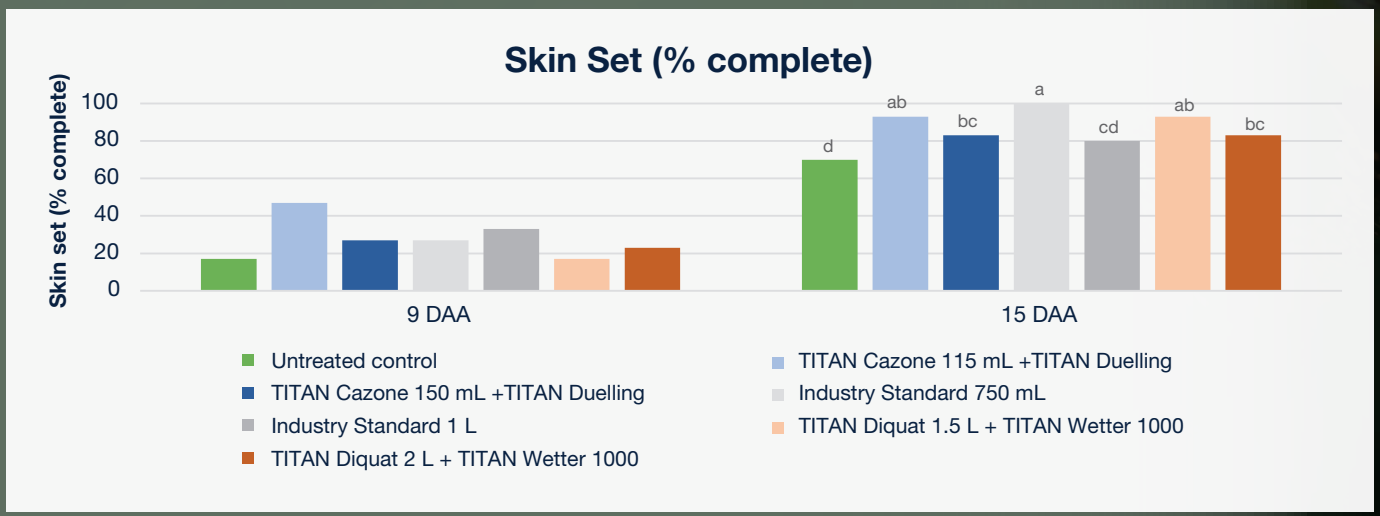
Treatments included TITAN Cazone applied at 115 or 150 mL/ha in tank mixture with TITAN Duelling Spray Adjuvant at 500 mL/100 L. TITAN Cazone treatments were compared with an industry standard applied at 750 mL and 1 L/ha and TITAN Diquat, applied at 1.5 and 2 L/ha with TITAN Wetter 1000 at 160 mL/100 L.

Treatments were applied once using Teejet XR110-04 flat fan nozzles, generating a medium spray quality in a spray volume of 400 L/ha.

The onset of desiccation was rapid, with all treatments demonstrating ≥71% by DAA (days after application). TITAN Cazone rates were statistically equivalent at all assessment dates; the low rate was equivalent to the low rate of the industry standard, and the high rate was equivalent to the high rate of the industry standard at all assessment dates. The high rate of TITAN Diquat outperformed all other treatments, with the low rate statistically equivalent to TITAN Cazone at two assessment dates.

Skin set was higher in all treatments when applied at their lower rates. Low rates of TITAN Cazone and TITAN Diquat were statistically equivalent at 9 DAA. Vascular browning was not observed in any treatment at 9 DAA, nor 15 DAA (data not shown).





TITAN Ag Trial 2025H01.1

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TITAN AG CROP PROTECTION

INDEPENDANT TRIAL DATA

DOUBLE APPLICATION, TASMANIA, CV. RUSSET BURBANK

A trial in Mt Hicks, Tas, in cv. Russet Burbank potatoes demonstrated bioequivalence of TITAN Cazone compared with two industry standards for pre-harvest desiccation.

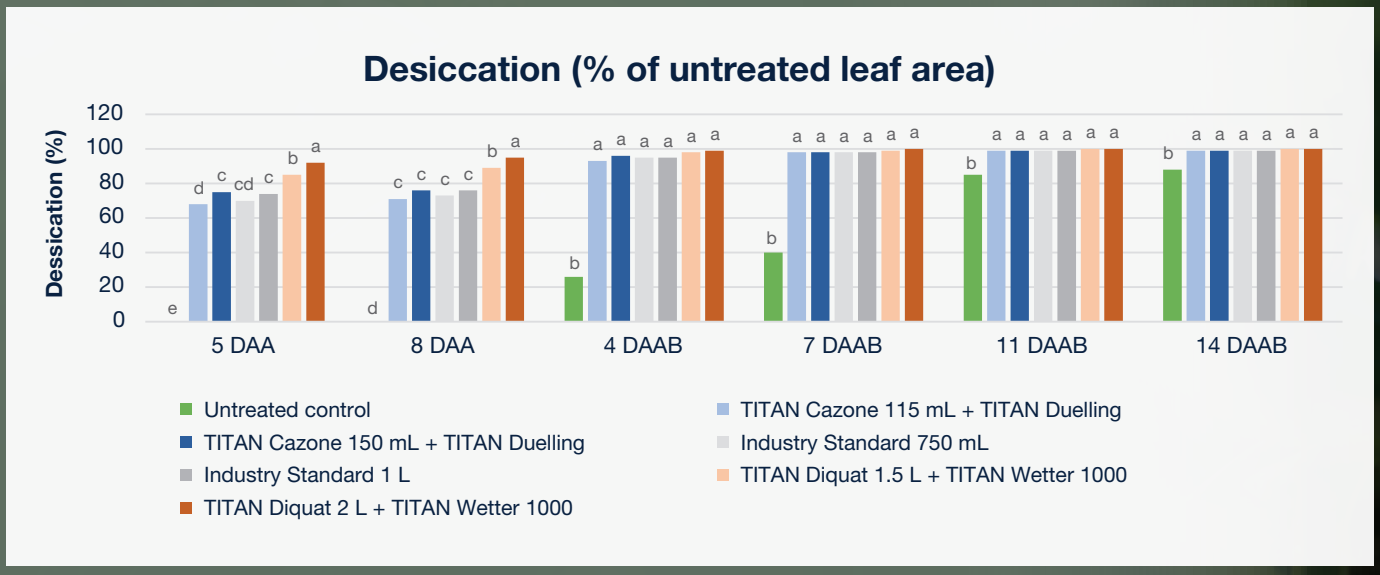
The site was characterised by clay loam ferrosol soil and conditions were mild with rainfall supplemented by overhead irrigation. The trial was managed as a randomized complete block design and managed by Arvensis Research.

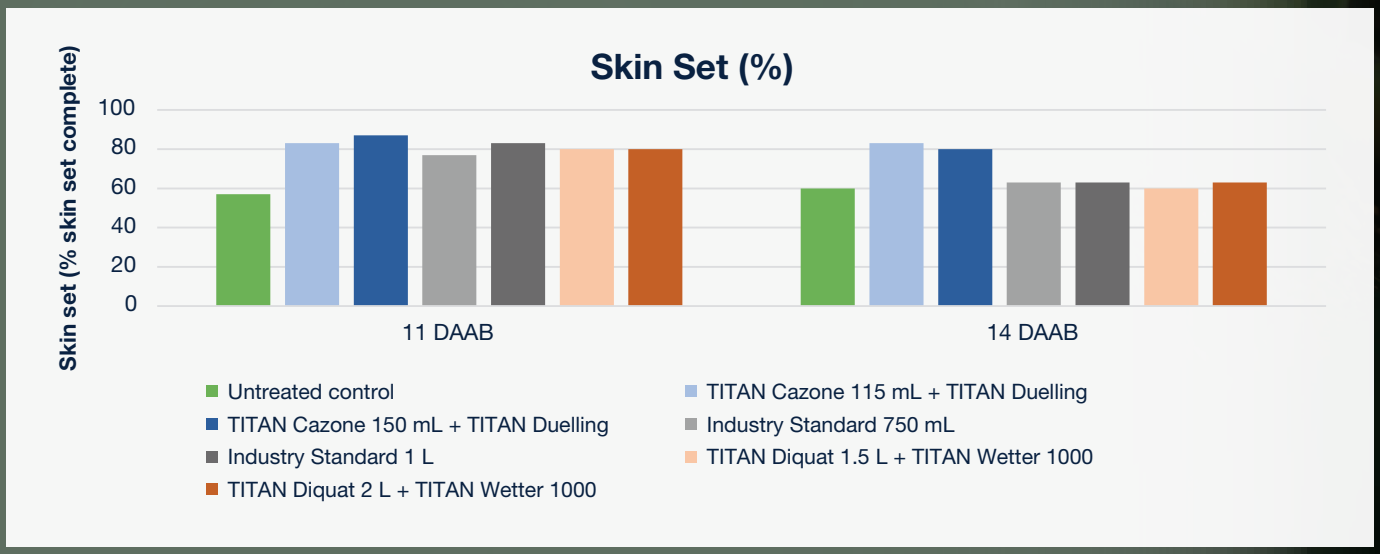
Treatments included TITAN Cazone applied at 115 or 150 mL/ha in tank mixture with TITAN Duelling Spray Adjuvant at 500 mL/100 L. TITAN Cazone treatments were compared with an industry standard applied at 750 mL and 1 L/ha and TITAN Diquat, applied at 1.5 and 2 L/ha with TITAN Wetter 1000 at 160 mL/100 L.

Treatments were applied twice, 7 days apart, using Teejet Turbo TwinJet TTJ60 110-03 flat fan nozzles, generating a coarse spray quality in a spray volume of 400 L/ha. Application A was done when the maximum tuber bulk had been reached, skin set not complete, leaves beginning to yellow; Application B was done when most leaves were yellow.

The onset of desiccation was rapid, with all treatments exhibiting ≥68% by 5 DAAA (five days after the first application). TITAN Cazone was equivalent to the industry standard at all assessment dates, and equivalent to TITAN Diquat after the second application (4 DAAB). There was no benefit in using the higher rate except at 8 DAAA with TITAN Diquat.

There were no statistical differences in the skin set of tubers observed at 11 DAAB or 14 DAAB. Vascular browning was not observed in any treatment (data not shown).





TITAN Ag Trial 2025H01.2

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TITAN AG CROP PROTECTION

INDEPENDANT TRIAL DATA

SOUTH AUSTRALIA, CV. EVA

A trial near Nildottie, SA, with cv. Eva potatoes demonstrated bioequivalence of TITAN Cazone compared with two industry standards for pre-harvest desiccation.

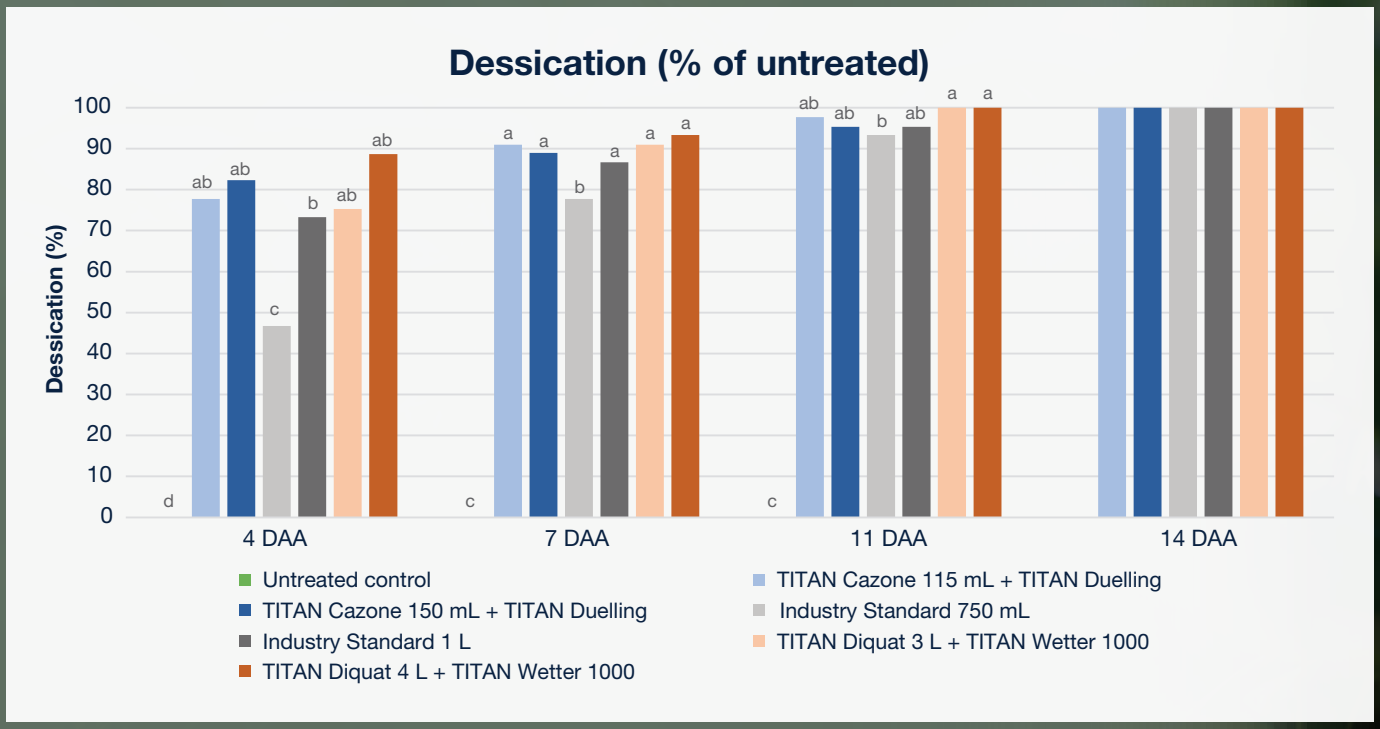
Conditions were warm with rainfall supplemented by overhead irrigation. The trial was managed as a randomized complete block design and managed by Select Ag.

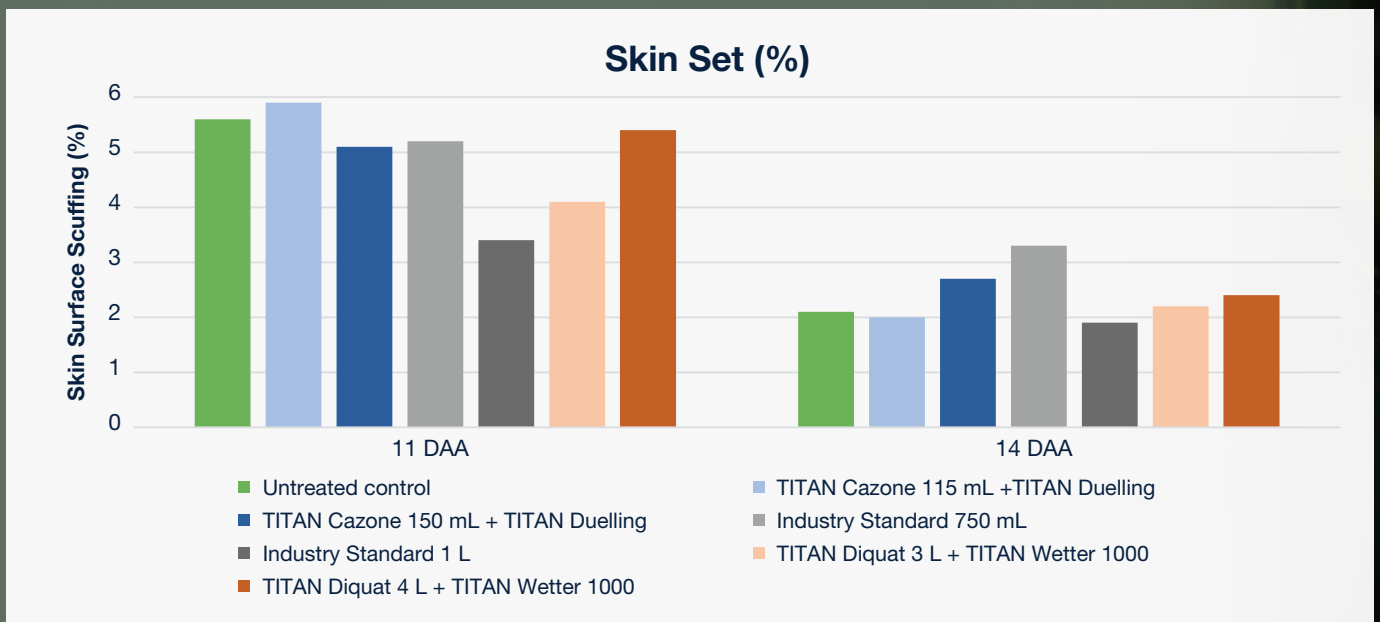
Treatments were applied once using two Teejet XR110-04 flat fan nozzles, generating a medium spray quality in a spray volume of 393 L/ha.

SINGLE APPLICATION

Treatments included TITAN Cazone applied at 115 or 150 mL/ha in tank mixture with TITAN Duelling Spray Adjuvant at 500 mL/100 L. TITAN Cazone treatments were compared with an industry standard applied at 750 mL and 1 L/ha and TITAN Diquat, applied at 3 and 4 L/ha with TITAN Wetter 1000 at 160 mL/100 L.

TITAN Cazone performed as well as, or better than both industry standards, for both desiccation and skin set, at every assessment timing.





TITAN Ag Trial 2025H02.1

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TITAN AG CROP PROTECTION

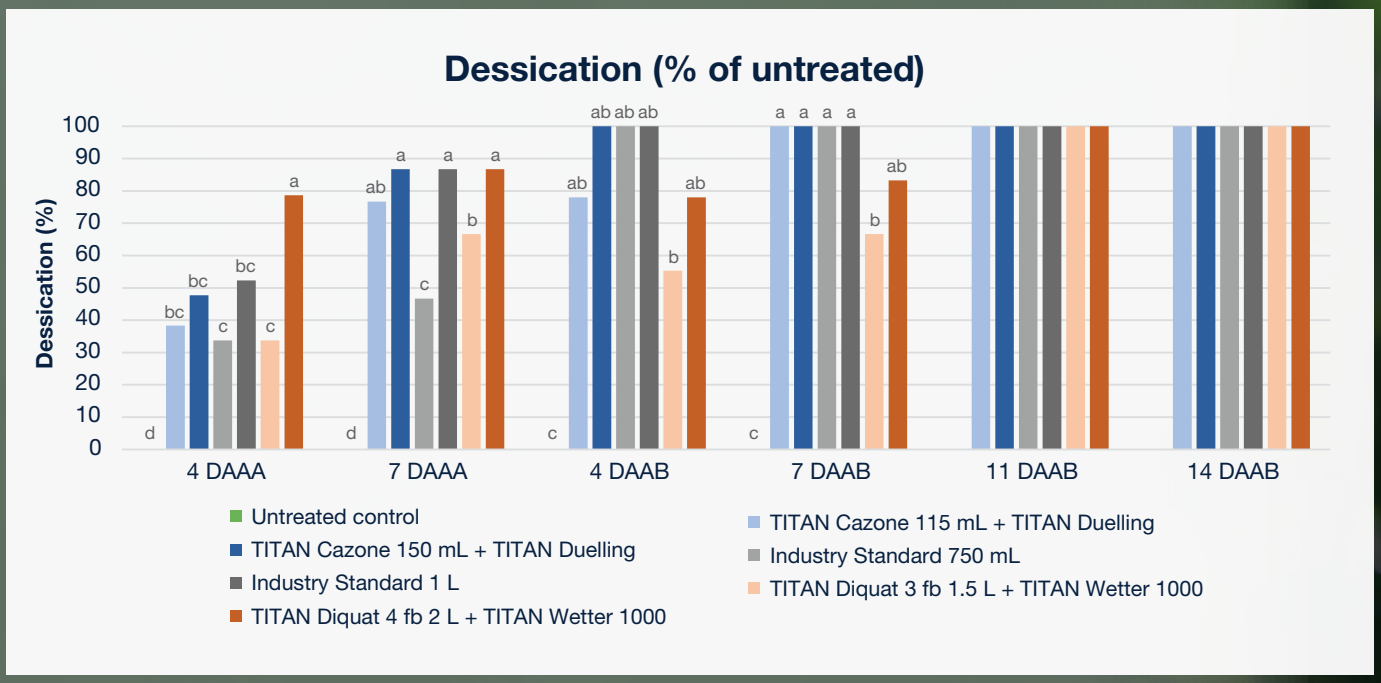
INDEPENDANT TRIAL DATA

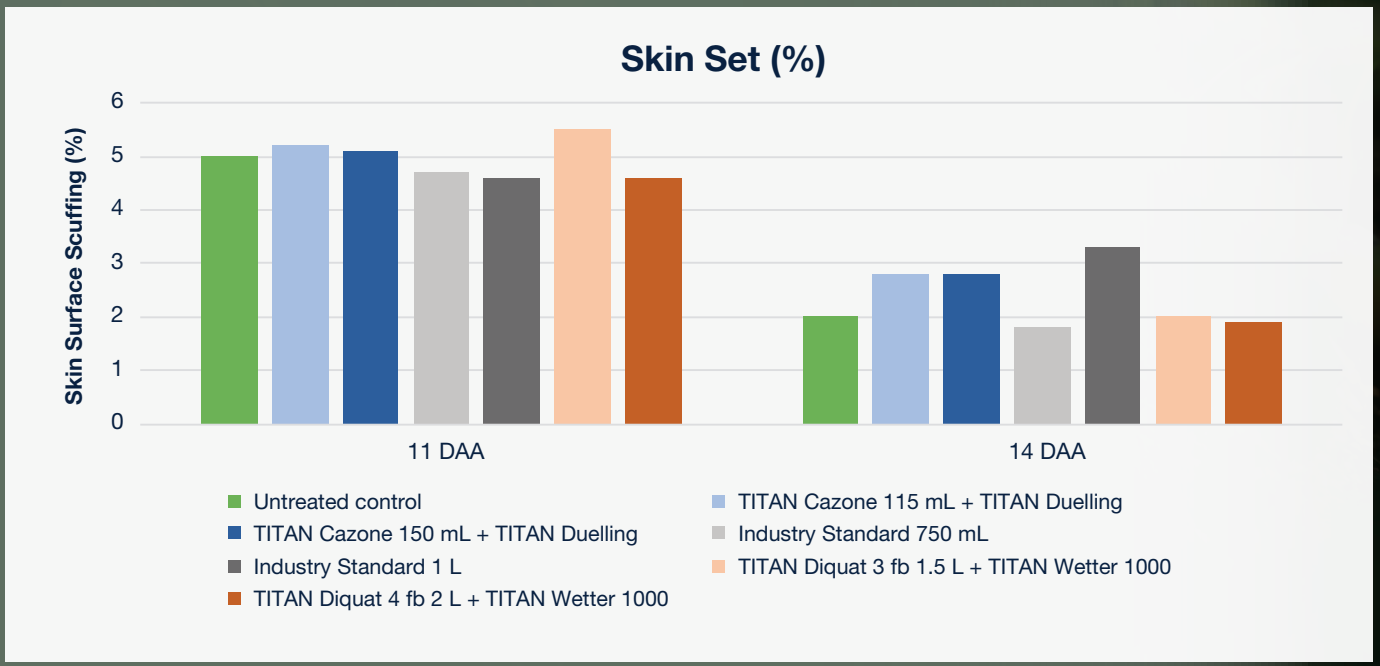
DOUBLE APPLICATION, SOUTH AUSTRALIA, CV. EVA

Treatments included TITAN Cazone applied at 115 and 150 mL/ha in tank mixture with TITAN Duelling Spray Adjuvant at 500 mL/100 L. TITAN Cazone treatments were compared with an industry standard applied at 750 mL and 1 L/ha and TITAN Diquat, applied at 3 and 4 L/ha for the first application, and 1.5 and 2 L/ha for the second application, with TITAN Wetter 1000 at 160 mL/100 L.

Treatments were applied twice, the first prior to crop senescence, the second, 7 days later. Applications were made using two Teejet XR110-04 flat fan nozzles, generating a medium spray quality in a spray volume of 393 L/ha.

When applied at equivalent rates, TITAN Cazone performed as well as, or better than both industry standards for desiccation and skin set.





TITAN Ag Trial 2025H02.2

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TITAN AG CROP PROTECTION

INDEPENDANT TRIAL DATA

VICTORIA, CV. GATSBY

A trial in Mirboo North, Vic, with cv. Gatsby potatoes demonstrated bioequivalence of TITAN Cazone compared with two industry standards for pre-harvest desiccation.

Conditions were warmer than average with less rainfall than average, causing earlier senescence than normal. The trial was managed as a randomized complete block design and by Kalyx.

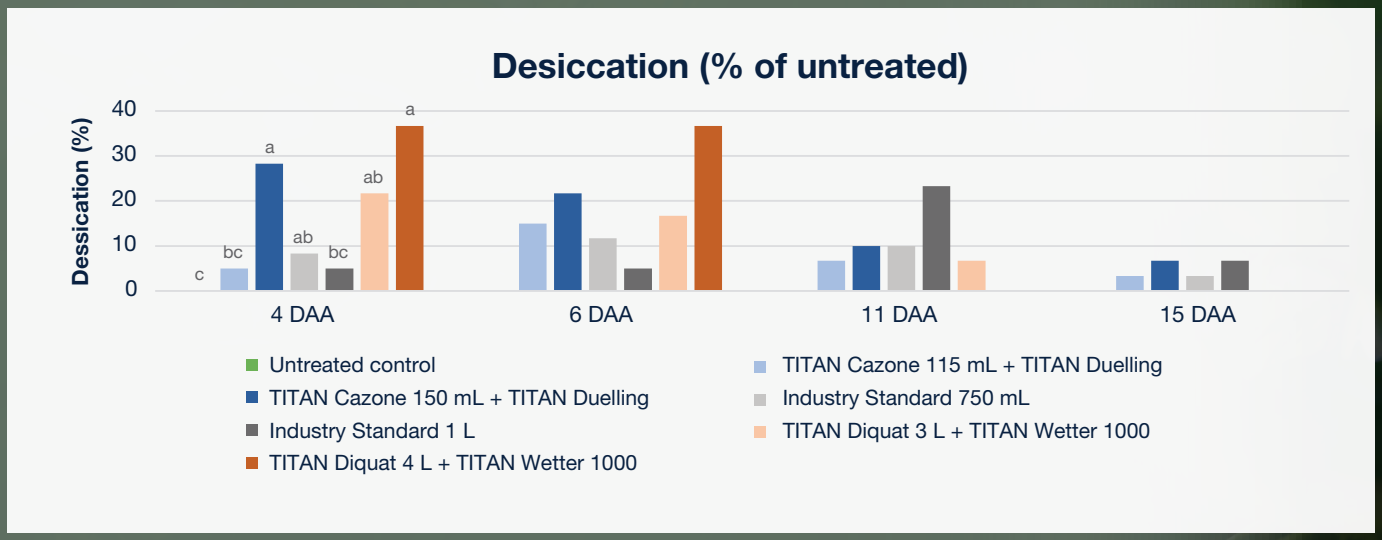
SINGLE APPLICATION

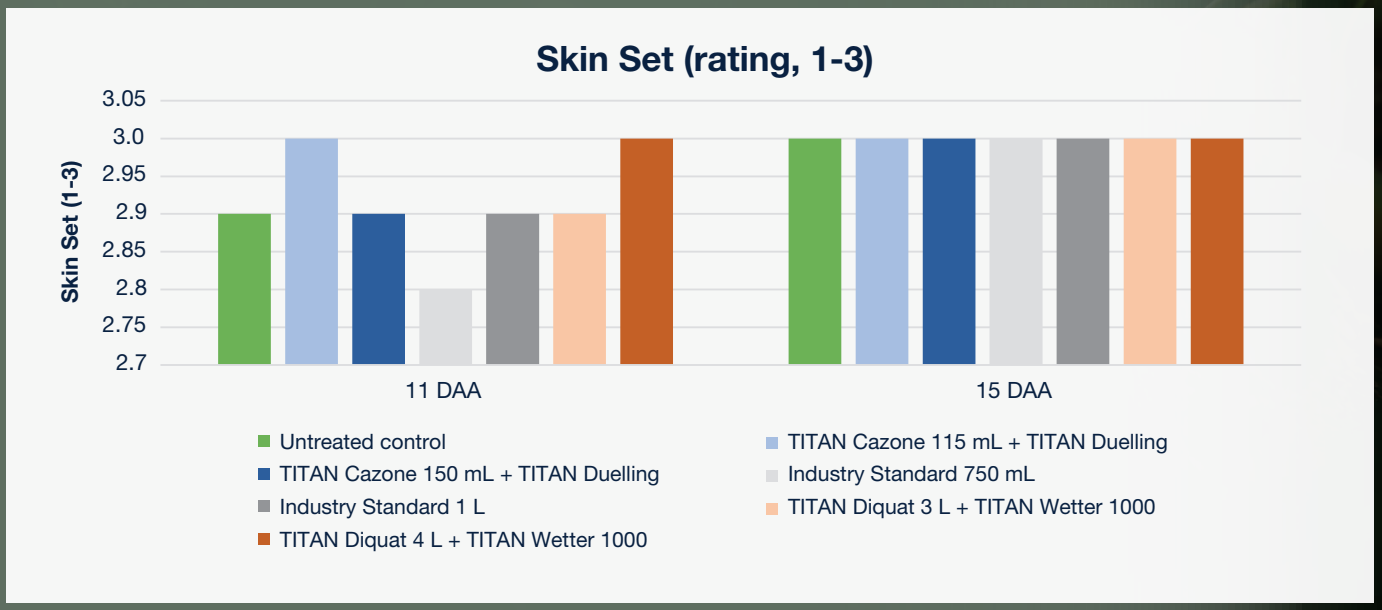
Treatments included TITAN Cazone applied at 115 or 150 mL/ha in tank mixture with TITAN Duelling Spray Adjuvant at 500 mL/100 L. TITAN Cazone treatments were compared with an industry standard applied at 750 mL and 1 L/ha and TITAN Diquat, applied at 3 and 4 L/ha with TITAN Wetter 1000 at 160 mL/100 L.

Treatments were applied once using Teejet TT110-03 flat fan nozzles, generating a coarse spray quality in a spray volume of 400 L/ha.

At 4 DAA, TITAN Cazone provided equivalent desiccation to the industry standard at the lower rate, and significantly greater desiccation at the higher rate; and equivalent desiccation to both rates of TITAN Diquat. There were no differences between any treatments in later assessments.

There were no significant differences between any treatments at any assessment date for skin set ratings; and no significant differences in vascular ring discolouration (data not shown).





TITAN Ag Trial 2025H03.1

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TITAN AG CROP PROTECTION

INDEPENDANT TRIAL DATA

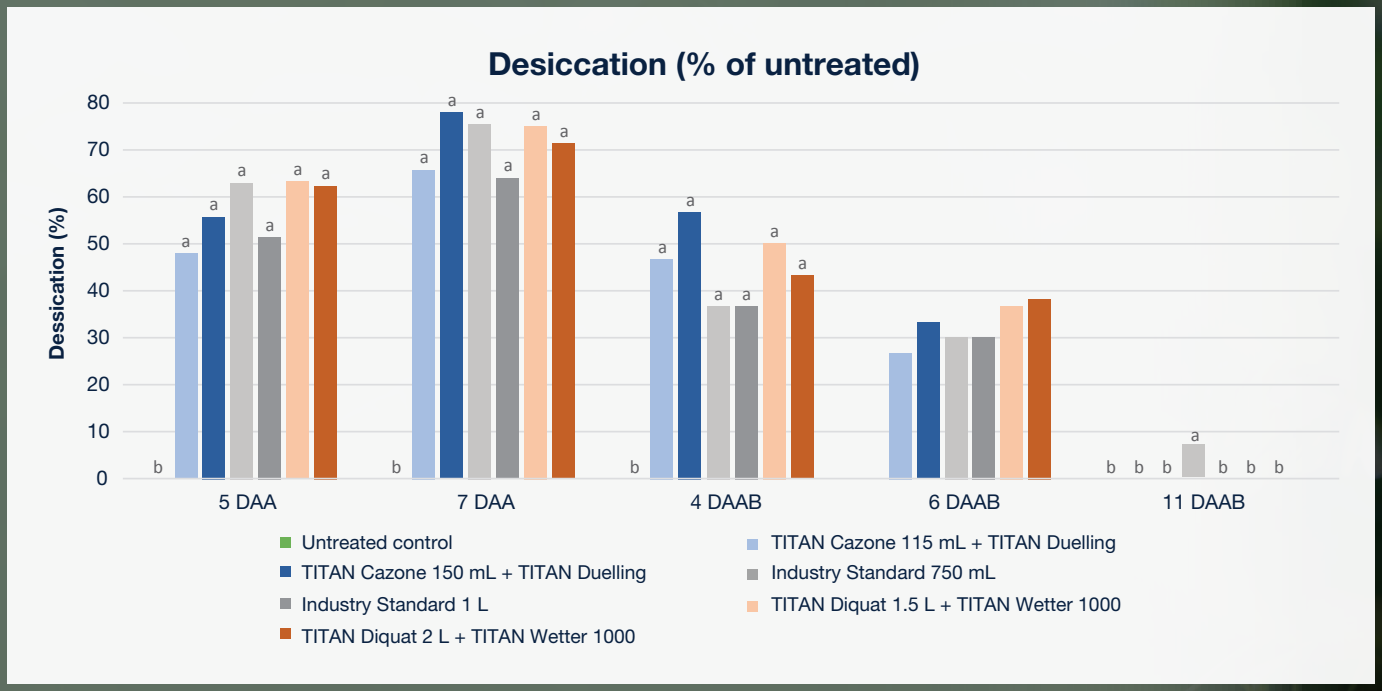
DOUBLE APPLICATION, VICTORIA, CV. GATSBY

Treatments included TITAN Cazone applied at 115 and 150 mL/ha in tank mixture with TITAN Duelling Spray Adjuvant at 500 mL/100 L. TITAN Cazone treatments were compared with an industry standard applied at 750 mL and 1 L/ha and TITAN Diquat, applied at 3 and 4 L/ha with TITAN Wetter 1000 at 160 mL/100 L.

Treatments were applied twice, 8 days apart, using Teejet TT110-03 flat fan nozzles, generating a coarse spray quality in a spray volume of 400 L/ha. Application A was done when the tubers were full size, with green tops present, and Application B following 8 days later when most leaves were yellowish.

Desiccation was quick and significant from the first application to 4 DAAB, with all treatments significantly reducing biomass compared to the untreated, with no significant differences between treatments and rates.

No significant differences in skin set or vascular ring discolouration (data not shown) were observed in any treatments, at either assessment.





TITAN Ag Trial 2025H03.2

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TITAN AG CROP PROTECTION

SUCCESSFUL APPLICATIONS

Check the label for critical comments based on usage pattern. Observe the restraints, buffer zones, rates, application and general instructions.

- Potato tubers should be fully developed and at the required size for harvest. Some senescence of the tops may be evident.
- Warm, moist conditions will accelerate desiccation; in as little as 4 days.
- Stressed plants may not desiccate as completely nor as rapidly.
- Maintain good agitation throughout spraying.
- Rainfast in one hour.
- Mix only as much spray solution as needed at a time. DO NOT store the sprayer for any extended period of time, especially overnight.
- Apply by ground rig only in 300-600 L water/ha to ensure good coverage. Water rate selection should be based on soil type and crop vigour. Better results tend to be related to higher water rates.
- Use good quality water, pH 5-7. Water temperature does not affect performance.
- Apply using a conventional boom sprayer with either mechanical or by-pass agitation.
- Use of the highest spray pressure through low drift air induction nozzles may assist in depositing spray onto the stem. Ensure spray quality of medium or larger droplets.
- DO NOT apply by air.
- Cleaning is best done immediately after use.
- Delay digging for 2 to 3 weeks after the final application to ensure skin on the tuber is hardened sufficiently to minimise damage from the digging operation.

TITAN Cazone is non-residual, so no harvest or grazing withholding periods apply, no export slaughter interval applies, no plantback restrictions apply.

VISIT OUR WEBSITE AT WWW.TITANAG.COM.AU FOR THE MOST UP TO DATE INFORMATION RELATING TO THE COMPATIBILITY AND CROP SAFETY OF PESTICIDE TANK MIXTURES.

As formulations of other manufacturers' products are beyond the control of TITAN AG Pty Ltd and water quality varies with location, all mixtures should be tested prior to mixing commercial quantities.