

A Spray Drift Hazard Prediction System

Alerting to conditions conducive to widespread destructive drift

Image: George Ramsey
Gain permission before use



Graeme Tepper

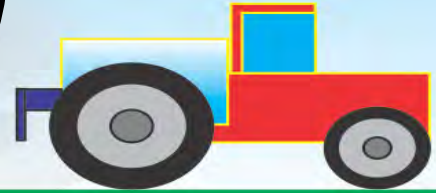


Warwick Grace

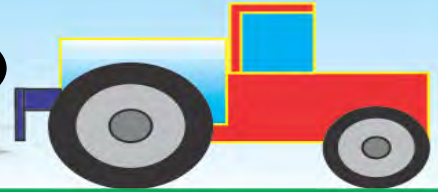


Very Unstable = Low dose

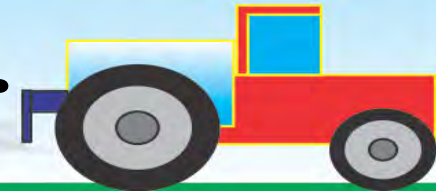
3 cases Widespread and damaging drift potential
and final receptor dose



Neutral = Moderate dose



Very stable = Maximum dose Laminar wind flow



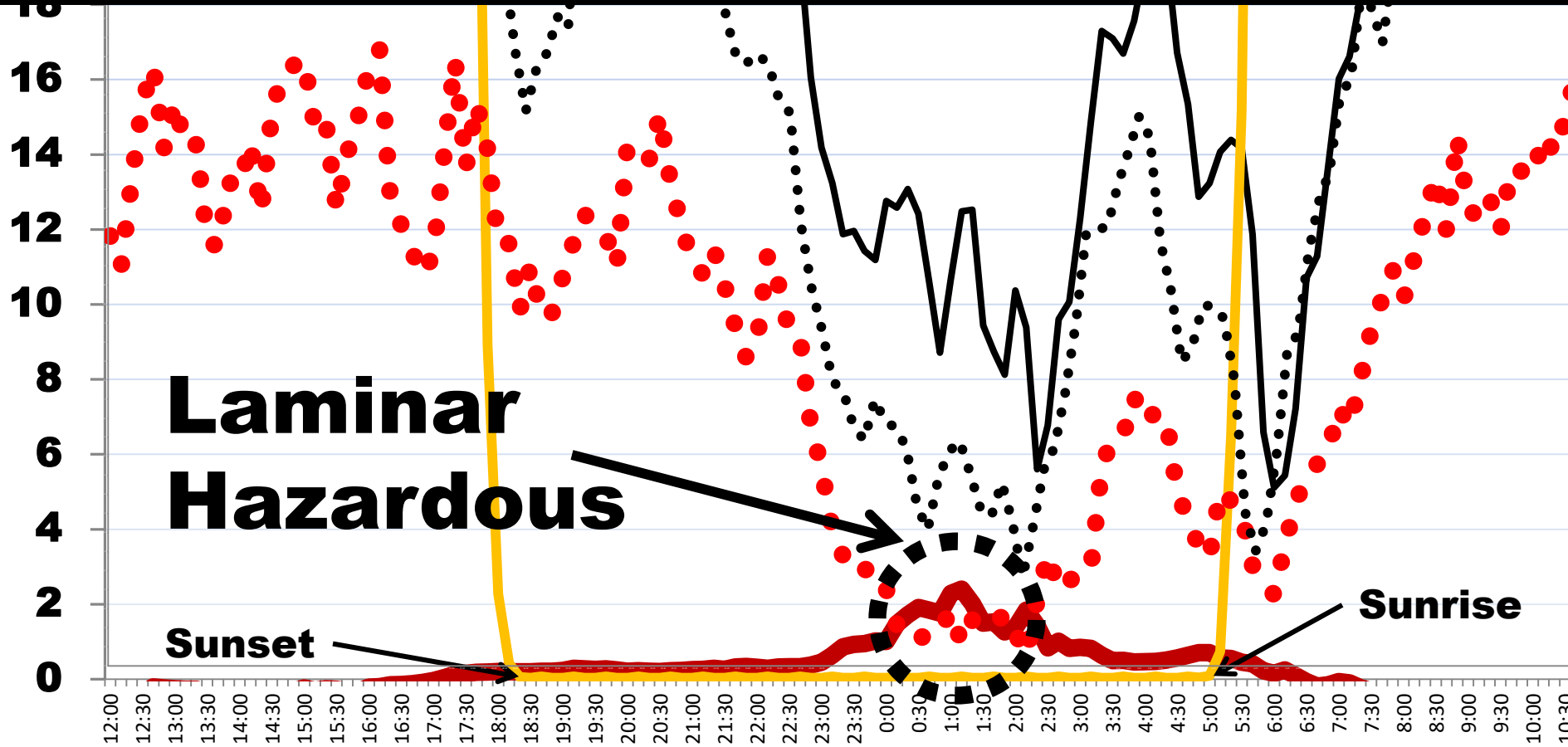
Very stable/Laminar = Max DOSE

Cumulative drift

An aerial photograph of a valley. The foreground shows a grassy slope leading down into a valley floor. The valley floor is covered in a thick, white layer of fog or low-lying clouds, which obscures the details of the landscape below. In the distance, there are rolling hills and mountains under a clear sky. The overall scene illustrates the concept of 'Cumulative drift' where small, consistent changes over time lead to a significant, visible effect.

Image copyright: Pete Nikolaison (NZ) Use only with permission

Inversion 13.5 hours. Laminar 2 hours



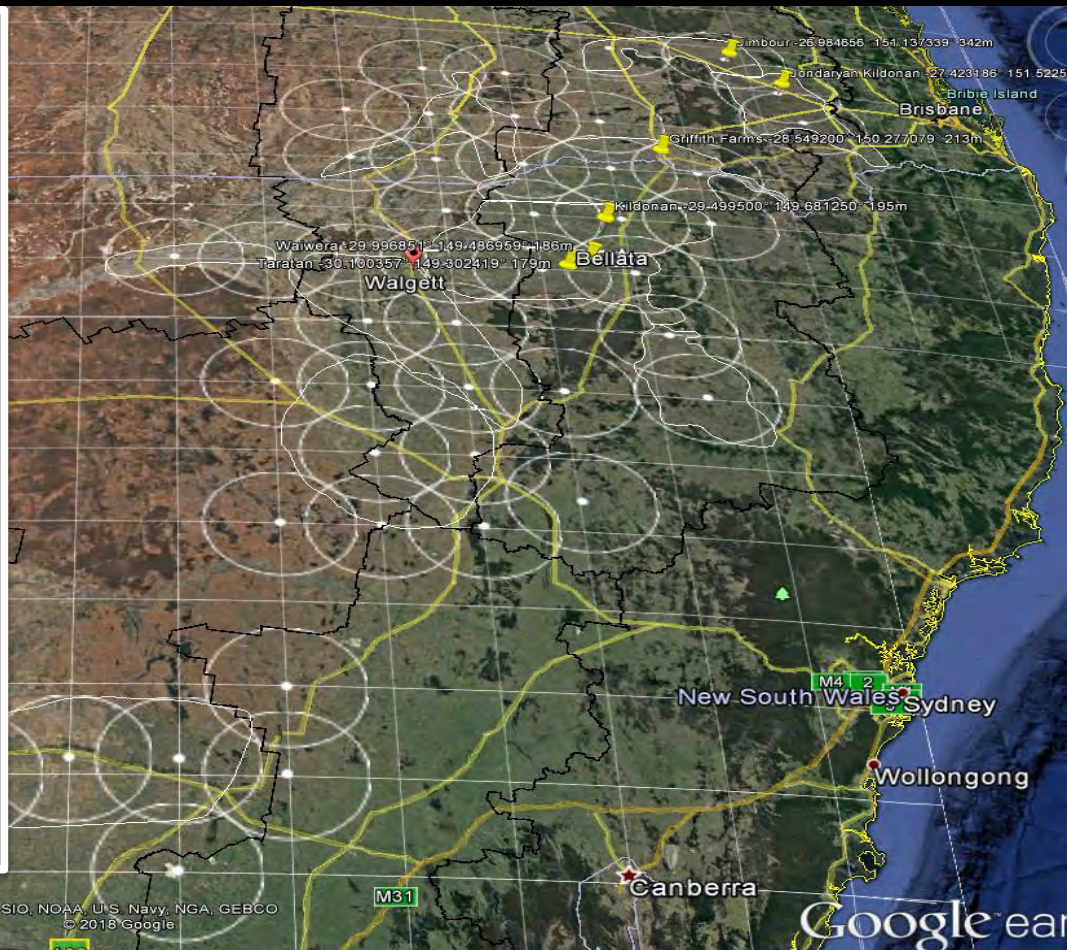
Potential Cotton Defence System

50 Sites 70km apart
32 million ha covered
Accurate, Reliable

***Reporting Spray conditions,
standard weather , climate,
dispersion, stability and local
wind flow.***

***Alerting to Hazardous
conditions***

**Covers all COTTON
& adjacent GRAINS**



OUTCOMES/OUTPUTS

Access to a standardized Australian system and advice

Detailed information 24/7.

Good for whole of farm management

All sprayers will be empowered to adjust operating practices to fit observed conditions.

Real-Time Alerts

ADVANTAGE / AIM

Takes the guesswork out of spray management decisions

Potential for Cotton and Grains Collaborative System

Destructive Drift CEASES



CRDC

COTTON RESEARCH AND
DEVELOPMENT CORPORATION



GRDC

GRAINS RESEARCH
& DEVELOPMENT
CORPORATION