



BRING LIGHT BACK INTO YOUR ORCHARD

**Reflective Ground Cover for
Commercial Fruit Production**

APPLES • PEARS • CHERRIES • STONE FRUIT • TABLE GRAPES



LIGHT SHAPES THE FRUIT YOU HARVEST.

**Light is one of the fundamental inputs driving
an orchard.**

**It powers photosynthesis in the canopy,
supports carbohydrate production and directly
influences processes involved in fruit
development and colour.**

**But within a tree, light is never distributed
equally.**

**Fruit position, canopy structure, leaf density
and time of day create very different light
environments — even within the same tree.**

**THE MORE PRECISE THE ORCHARD,
THE MORE LIGHT DISTRIBUTION MATTERS.**

PUT AVAILABLE SUNLIGHT BACK TO WORK.

AgriSun supplies specialised metallised PE reflective ground cover for commercial fruit production.

Installed beneath the fruiting canopy, its highly reflective surface redirects sunlight reaching the orchard floor back upward into the crop, increasing light availability in lower and interior areas of the canopy.

BUILT FOR COMMERCIAL ORCHARDS

- Highly reflective metallised PE
- UV stabilised for outdoor agricultural use
- Lightweight and practical to deploy
- Designed for orchard-scale application

MORE LIGHT, FROM ANOTHER DIRECTION.

Growing the fruit is only part of the job.

For high-value fresh fruit, colour, colour coverage, uniformity and external quality influence how the crop presents at harvest and through the packhouse.

Reflective orchard technology is used to improve the light environment around fruit during the critical pre-harvest period – when colour development and final fruit presentation matter.

MORE USEFUL LIGHT AROUND THE FRUITING ZONE.

Better colour opportunity.

Greater colour coverage.

A more uniform crop.

More fruit with the potential to meet market specifications.

BECAUSE ORCHARD QUALITY IS ULTIMATELY MEASURED IN
THE PACK-OUT

THE RESULT HAS TO REACH THE BOX.



THE AGRISUN REFLECTIVE GROUND COVER

METALLISED PE — MADE FOR COMMERCIAL ORCHARDS

A lightweight, highly reflective agricultural film designed for deployment beneath orchard and vineyard canopies.

PRODUCT SPECIFICATION

Material

- Metallised polyethylene (PE)

Thickness

- 20 µm

Width

- 2 metres

Roll Length

- ±1,200 metres

Reflectivity

- Up to 94%*

UV Protection

- UV stabilised for outdoor agricultural exposure

Application

- Orchards & vineyards



ONE TECHNOLOGY. DIFFERENT CROPS. GLOBAL EXPERIENCE.

Reflective ground-cover technology has been investigated across major fruit-growing regions worldwide — including the United States, Europe, New Zealand, Australia and Chile.

FROM INTERNATIONAL FRUIT REGIONS TO SOUTH AFRICAN ORCHARDS.

APPLES

The strongest research base. In 'Fuji', metallised reflective film increased light inside the canopy from 30% to 50% of daylight and improved red colour. In 'Braeburn' under hail netting, reflected light increased 1.6–3.9× one metre above the ground, with improved colour particularly on shaded fruit.

PEARS

Commercial trials in Washington evaluated reflective ground covers in both apple and pear orchards. Researchers reported improved fruit colour and increased yields of fruit meeting targeted market characteristics, through effects on fruit set and/or harvest size.

CHERRIES

Reflective ground-cover research in cherries has examined more than appearance — including canopy photosynthesis, fruit quality and maturity, making cherries an established part of the international reflective-orchard research base.

STONE FRUIT

In peach research, reflective-film mulching increased anthocyanin accumulation in the fruit peel and improved colour measurements compared with non-reflective film treatment.

TABLE GRAPES

Grapes are highly responsive to their light environment, and reflective materials have been investigated as a way of modifying light around developing bunches — particularly where berry colour and exposure are important.

THE RESEARCH IS ALREADY IN THE ORCHARD.

Reflective ground-cover technology has been studied in commercial fruit systems for decades, with measurable effects on canopy light, fruit colour and marketable fruit quality.

SPAIN — 'MONDIAL GALA' APPLES

A three-year trial by Iglesias & Alegre recorded 34% and 56% increases in photosynthetically active radiation (PAR) in the lower canopy with two reflective-film treatments. Fruit colour also improved.

GERMANY — APPLES UNDER HAIL NETTING

Reflective ground covers increased orchard light utilisation and improved the proportion of well-coloured Class I fruit by an average of 9% compared with uncovered grass.

USA & CHILE — 'BING' CHERRIES

Research by Whiting, Rodriguez & Toye found treated cherries reached optimum maturity approximately 5 days earlier at both trial locations. Interior-canopy leaf CO₂ exchange was also 50% higher in the Washington trial.

USA — 'HONEYCRISP' UNDER PROTECTIVE NETTING

Reflective ground cover significantly increased reflected PAR into the lower canopy and increased the amount of fruit achieving greater red skin colour.

GLOBAL KNOWLEDGE SOUTH AFRICAN ORCHARDS

South Africa already produces world-class fruit.

AgriSun brings specialised reflective orchard technology into that environment — giving growers another tool to manage light where it matters :
Around the crop.

BRING LIGHT BACK
INTO YOUR ORCHARD.



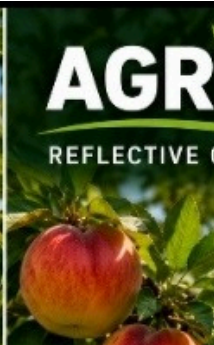
SUNLIGHT IS ALREADY PART OF EVERY ORCHARD.
AGRISUN PUTS MORE OF IT TO WORK.

AgriSun

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AGRISUN
REFLECTIVE ORCHARD FILM

