

New Zealand Young Viticulturist of the Year 2023

Education Day

resilience:

“an ability to recover from or adjust easily to misfortune or change.”

—Merriam-Webster Dictionary

It's just that
sometimes,
you have to
be more
resilient than
others...



...especially
when your
business relies
on Mother
Nature.



And more recently, some of our growers have certainly had their resilience tested.





So how can
Empak help?



RECYCLING



We are able to offer a recycling option for damaged nets, through Plasback, a company we work closely with, and even share the same Christchurch office.

plasback PARTNERING IN PRODUCT STEWARDSHIP

Plasback is an accredited product stewardship scheme.





RECYCLING



The rules for recycling nets are:

- Over Row/Multi Row vine nets are acceptable
- Side netting are NOT able to be recycled
- Nets must be rolled up
- NO inner cores in them
- Nets need be as clean as possible and free of debris

Plasback will also take irrigation pipe for recycling, as long as it is rolled up and tied with pipe tie twine. (Empak can supply the twine).

Contact Plasback direct on 0508 338 240.

NB: They will ask for photos of the nets.

Types of Vineyard Nets



Side Nets

- Economical to purchase
- Limited outlay in machinery
- Easy removal
- Small hole size
- Both sides of row need to be netted
- Must be secured top, bottom and in between vines



Single Row

- There is limited outlay in machinery
- Minimal labour cost to install
- Good bird protection
- Best netting for small blocks and steep slopes
- Not suitable if you need to work under the nets



Over Row or Multi Row

(Can be Made to Order)

- Quick to apply and remove
- Very good bird control
- Low labour requirement
- Application machinery required
- Can use contractors with machines



Multi Row Lockout

(Made to Order only)

- Very secure bird control net
- Overlapped and tensioned for complete lockout
- Low labour required once applied
- Less net needed to cover vines
- Machinery must be used



How to Measure Nets



CALCULATING WIDTHS

- Step 1: Take the number of rows to be netted – 1. (Therefore 4 rows = 3 spaces). Add the total measurements of the spaces together.



CALCULATING WIDTHS

- Step 2: Add on 2 X Canopy Height



CALCULATING WIDTHS

- Step 3: Add on 2-3m (to have nets sitting on ground with approximately 1m each side)

Note: With wide rows of over 4 rows per net, a wider net may be required due to the draping of the nets between rows, therefore allow an additional 3m to 'Step 3' above.



EXAMPLES

- Example A

Four rows to net at 2.4m spacing and 2.2m height calculates as:

$$3 \times 2.4 + 4.4 + 3 = 14.6\text{m}$$

Therefore, 15m wide net would be most suitable.



EXAMPLES

- Example B

Six rows to net at 1.9m spacing and 2.0m height calculates as:

$$5 \times 1.9 + 4.0 + 3 = 16.5\text{m}$$

Therefore, 17m wide net would be most suitable.



CALCULATING LENGTHS



- Step 1: Measure length of row from anchor point to anchor point and add 6-10% per length.

Note: If the ends of the row(s) are at an angle on one or both ends (not a square block) take the longest length between the first row of the block and the end point of the longest row at the opposite end. If this is not calculated correctly, it is likely the net will not reach the end of the angled rows and therefore not provide full protection. It is better to be generous to ensure 100% protection of your crop.



WHY NET?

NETS REMAIN THE MOST EFFECTIVE MEANS OF REDUCING BIRD DAMAGE IN THE VINEYARD

- Grapes become appealing to birds when the sugar content reaches 15%. Whilst most grapes are harvested when sugar content is at least 21%. This gives the birds about three weeks head start. Crops can be desecrated by 50% in those three weeks.



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- The hole size in the net still allows pollinating insects like bees to pass through.

The thing about
resilience, it
means you *can*
bounce back...
just like Mother
Nature.

