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carbon in balance Agroforestry keeps

BY KYLIE NICHOLLS

ON-FARM results from Mark Wootton and Eve Kantor's south-west Victorian grazing property, Jigsaw Farms, has

have integrated extensive agroforestry and revegetation plantings with grazing across their six properties, totalling 3378 hectares, ite environmental stewards, integrated extensive The pair, who are passion-

for prime lamb production, while 550 Poll Hereford and Angus cows are run in a crossbreeding operation, fo-They currently run about 20,000 fine wool Merino ewes, with 60 per cent running in a self-replacing flock and 40pc joined to terminal sires ed on hybrid vigour.

Forest Products Association last week, they admitted the National Farmers' Fed-eration and the Australian Speaking at a farm for-stry field day organised by ducing carbon emissions, had become a significant antings more than 20 years to were not motivated by

plantings and farm forestry which will be replanted after being harvested. with indigenous trees and shrubs or timber species, for Since 1997, Jigsaw Farms as revegetated about 600ha environmental

about 300ha of Spotted Gum which was chosen for its

ated into the Jigsaw Farms

and productivity, especially at lambing and after shear-ing, has also been a key benefit along with a lift in

farms, they were keen to see how their intensive system When carbon

Against expectations, results from the University of Melbourne study, which wa

the edges of paddocks, fol-lowing the highly successful Potter Farms model, several of which have been incorpo-

ning was to have a diverse income source with the agro-forestry while the revegetaton said.
"Shelter for stock welfare tion was all about improving our on-farm biodiversity and soil health," Mr Woot-

winter pasture production through a reduction in wind chill factor.

"We see the planting of trees and shrubs as not taking farmland out of production but as actually lifting prazing productivity."

grazing productivity."

The farms' current stocking rate of 20 to 22 Dry Sheep Equivalents per hectare is double the district carrying for the area. he district carrying and in the top 5pc

researchers to participate in a study looking at the offsets required to reduce

from livestock, energy use and transport were being offset by the carbon sequestered in their trees and soll.

The study found that with 20pc of the farm planted to trees, the stocking rates at Jig-



PRODUCTION BENEFITS: The wide corridors of trees, shrubs and timber plantings at Jigsaw Farms provide valuable shelter for sheep during lambing and shearing.

RESILIENCE: Farm forestry, along with revegetated waterways, wetlands and well-managed pastures, has improved Jigsaw Farms' overall biodiversity.

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saw Farms were carbon positive over a 25-year period.

From 2000 to 2014, Jigsaw Farms reduced their emissions by 48pc and almost 70pc of emissions are forecast to be offset by 2020.

"We did it as a very interesting example of where you had to go and the results showed that in this area, with "If you went to another Western District farm with average stocking rates, it would be about 10pc.
"But moving forward, re-

maining carbon neutral is difficult to predict as emissions change depending on stocking rates, and tree growth rates start to plateau after about 10 years, so it gets you there for a short time."

Careful pasture management and an efficient and reliable water system are also key factors which underpin

high stocking rates, you need about 20pc of your farm planted to trees to offset the carbon you are producing,"

the operation's success, according to Mr Wootton.
"The best thing we do is grow grass and we've spent the past 23 years fine-tuning this with high fertiliser inputs and perennial pas-ture species."

The perennial pasture sys-

tem currently offsets about one-quarter of emissions through soil carbon and this

figure continues to grow.
"But the risk of using soil carbon to offset emissions

event and it gets very barren or we don't maintain our ground cover, we will lose it," he said.

tree plantings, with new plantations comprising 50pc They have continued their

challenge in high rainfa areas in getting trees in the landscape because it viewed as competition with growing grass, that's why it important to understand the co-benefits of trees." in high rainfall