3M forage Soution

NIGEL MALTHUS

could be years — if ever -before they can get their are incredulous that it developed by AgResearch about the potentially huge FARMERS HEARING nodified forage being

opment at a workshop at the recent DairyNZ Farmryegrass and other speforages based on increas-ing foliar lipids - fat conresearch farm. His group is developing 'high metabpal scientist Greg Bryan summarised the develtent in the leaves olisable energy' (HME) University's Ashley Dene ers' Forum at Lincoln nands on it. AgResearch princi-

plants grown in pots were back from the US where bout to be transplanted Bryan said he was just field trials, being

and containment glass: houses. But NZ's GM

rules prevent the next

. The work in New Zeal land has been in the lab

in a protective protein.
Incorporating that protein produced plants able to fully stored oil in seeds by surrounding lipid bodies at how plants success out then metabolised it luced plants which ncreasing lipids in ryeay. They then looked He explained that Initially they pro-

to find the plants actually grew faster," said Bryan.
"I don't just mean a little faster, I mean 50% faster. It was pretty amazing."
Accumulating lipids in work we were surprised "And as we did that

four years old, and we cut our containment glassphotosynthesis, he said. "We've got plants in weeks and they regrow a houses that are three-

This shows the method is stable and will work in

"pretty much any" plant species using a 'C3' pho-tosynthesis type, which includes many common

debate in this country but he warned it may be a minimum eight years "to will lead to an informed

get it to you guys". "Why is it taking eight years?" asked a workshop here in NZ and it may never even be able to be attendee. "This is ridic used in NZ," remarked ulous. It can't be tested

of it in the meantime,"
Bryan said they may not are competing technol-ogies that could achieve Asked whether the Americans could "get hold fall behind, he said. development overseas. If the same thing, already in technology but there get hold of this specific NZ does nothing we will

ures suggesting poten-tially increased farm nary nitrogen load on pas-ture of 6-7% and a 15-23% reduction in methane reduction in the total urirevenues of \$900/ha, a Bryan presented fig-

gated land could poten-tially enjoy a more reliable feed supply and reduced reliance on bought-in a measured 9% increase Even farmers on non-irriwhich should improve esponses to drought. The plants also had

in the lab, it is expected to lead to improved liveweight gains and milk solid production. animals and the higher ME has so far only been ages had yet to be fed to Although HME forsed by calorimeters

cumulate oil bodies in

in the field, but fats had also come from in-Bryan said the methane reductions of 15-23% are known to be toxic had yet to be confirmed

the leaves increased the

more fat in the diet the the diet impacts on meth-"The amount of fat in

"What we want to do in the field trial is verify a whole lot of things including the growth rate," said

The enzyme producing

and the protein that come from nasturtium

protected the fat bodies in the leaf was from the increased lipids had



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