



Financial benefits of using the Donaghys LessN® System

The Donaghys LessN® System simply means that farmers can grow more grass with half the amount of urea applied. This obviously has enormous benefits to a farms bottom line as input costs are significantly reduced, and dry matter production is increased. Simply put – Donaghys LessN® grows more pasture, faster and cheaper for a **greater bottom line!**

Average dairy farm example. Given the average dairy farm in NZ is 131ha, a farmer who switches from spreading 80kg of urea to spraying 40kg of dissolved urea with 3 litres of LessN could expect the following financial benefits.

More Pasture for More Milk	More Efficient	Cheaper
14% more Milk Solids per hectare!	Twice the nitrogen response of spread urea!	Grow dry matter for 29% less than spread urea!
POTENTIAL SAVING OF UP TO \$26,000 PA		

Assumptions. All figures assume: Urea cost including freight @ \$735/tonne. LessN RRP \$5.75/Litre. Spreading cost \$10/ha. Spraying cost \$22/ha. Labour cost \$14/hour. Diesel cost \$23.10/hour. Milk Solids payout \$7.30/kg. Fuel consumption based on a 80KW(107HP) tractor working @ 75% power @ 0.35L/kW/hour, diesel @ \$1.10/litre. Spreading at 20ha/hour. Spraying at 12ha/hour.

Input Costs	Contractor Applied		Self Application	
	Spread	Sprayed	Spread	Sprayed
Costs \$ per ha	Urea 80	LessN System (Urea 40 + LessN)	Urea 80	LessN System (Urea 40 + LessN)
Urea including freight and application	\$68.80	\$51.40	\$58.80	\$29.40
LessN including freight		\$17.25	\$0	\$17.25
Estimated farm labour and fuel costs	\$0	\$0	\$1.86	\$3.09
Lime required to counteract urea	\$2.26	\$1.13	\$2.26	\$1.13
Total cost of application per ha	\$71.06	\$69.78	\$62.92	\$50.87
Number of applications per year	5	5	5	5
Total units of N applied per year	200	100	200	100
Total cost of application per ha/year	\$355.30	\$348.90	\$314.60	\$254.35
Input costs	\$46,544	\$45,706	\$41,213	\$33,320
Input saving by using LessN system (\$)		\$838.40		\$7,892.75

Financial Benefits	Contractor Applied		Self Application	
N Response (kgDM/kgN) (ex trial results and published data)	11.00	25.10	11.00	25.10
Extra dry matter grown (kg/ha) (ex trial results and published data) / application	404.80	461.84	404.80	461.84
Cost of growing incremental dry matter (\$/kgDM)	\$0.18	\$0.15	\$0.16	\$0.11
Dry matter cost saving (%) under LessN System		14%		29%
Number of applications per year	5	5	5	5
Extra pasture grown (kgDM/ha/year)	2024	2309	2024	2309.2
Potential extra MS produced /ha/year	135	154	135	154
Extra MS produced under LessN system / ha (%)		14%		14%
Value of extra MS produced / ha	\$985	\$1,124	\$985	\$1,124
Total value of extra MS produced / year (average 131ha farm)	\$129,037	\$147,219	\$129,037	\$147,219
Value of extra MS produced under the less N system per farm		\$18,182		\$18,182
Plus input saving by using LessN (\$)		838.40		7,892.75
Financial benefit of the LessN System		\$19,021		\$26,075