SUMMER
JAN - MAR 24

nevada SEASONAL DEALS

ON FARM CASE STUDIES

John has increased capacity and lowered the fertiliser bill by getting effluent onto 90% of the farm

see page 6

THE MOST EFFICIENT WAY TO SPREAD EFFLUENT

Find out more pages 4

Specialist provider of
DAIRY EFFLUENT EQUIPMENT
1800 963 490 | **nevadagroup.com.au**

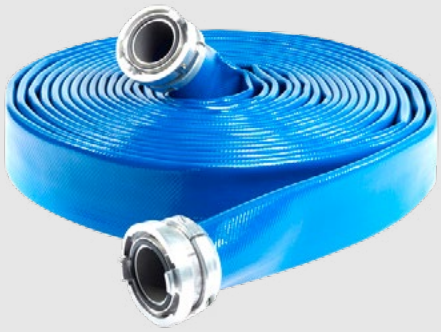
nevada®
Sustainable Effluent Management

NEVADA DRAG HOSE SYSTEMS

We've got everything you need for operating the ultimate umbilical drag hose system. Equipment can be purchased individually or as part of a package deal.

RainWave™ 3PL Applicator

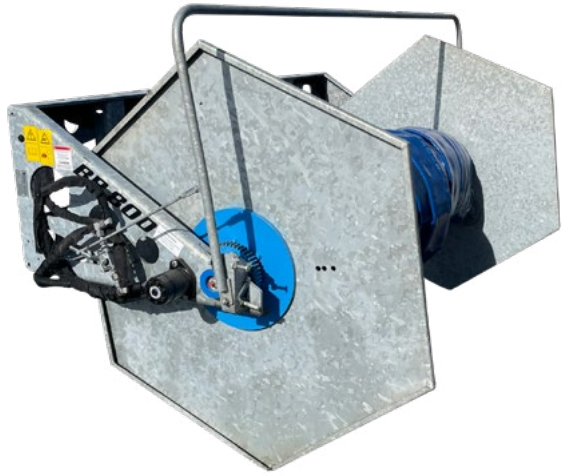
Nevada's RainWave™ 3PL applicator easily attaches to your tractor, providing a controlled, even spread. The RainWave™ produces larger droplets, meaning less wind drift and volitisation for better nutrient absorption. This controlled application makes it ideal for spreading near boundaries or around irregular shaped paddocks.



Heavy Duty, Effluent Grade Layflat Drag Hose

Top quality PU and rubber lay flat hose is puncture resistant and stands up to rugged farm use.

- 102, 127 and 152mm diameter
- 3.3mm-4.0mm wall thickness
- 17bar max working pressure (250 PSI)
- 42bar burst pressure (610 PSI)
- 13,800 – 17,900 kg (in tonnes) tensile strength.



Hose Reeler

Both random wrap and segmented mounted umbilical hose reelers are available, and all are fitted with a heavy duty, 3 point linkage and a female Quick fit 'A' frame. When the male 'A' frame is located it is secured by two loose fitting pins.

Effluent Pumps

Choose from a range of top performing, high capacity PTO or diesel powered effluent pumps to suit your pumping requirements. Nevada's range of pumps are suitable for small through to large farms and contractors.

DROP EFFLUENT DAM LEVELS FAST, READ MORE
nevadagroup.com.au/products/drag-hose-system

What is the most efficient way of spreading effluent?

There are three common approaches to spreading effluent, each offering differing levels of volume, capacity, and equipment needed to get the job done. The traditional method utilises an electric pump with a travelling irrigator, but there are other methods that could increase reach and efficiency. With many farms under utilising paddocks, equipment such as slurry tankers and hose reelers have the potential to spread effluent faster with less hassle.

Travelling Irrigator

Travelling irrigators are generally run through a fixed in-ground mainline, which can restrict the number of paddocks that effluent is applied to. The closer paddocks can max out at around 45,000 litres per hour, while the further away paddocks could experience pressure loss on the line and come down to a max of around 35,000 litres an hour.

Travelling irrigators do require a more involved set up process, but once started, there is minimal work. It can take around 45 minutes to an hour to set up, including the time it takes to lay out the drag hose correctly.

With a travelling irrigator system, most farms only utilise their valuable dairy effluent on 10-15% of their farm land. Under utilising effluent reach puts more pressure on herd rotation, which can lead to over application that affects animal health, as well as problems with higher nutrient loading. A travelling irrigator can spread effluent at a reasonable speed, but if the farm only spreading on a small number of paddocks (10-15% of total number of paddocks), effluent should not be applied too close to the next rotation.

Slurry Tanker

Slurry tankers are the second most efficient method for spreading effluent quickly after the drag hose system, however, they are the best-in-class for being able to spread the valuable nutrients over the entire farm, bringing the biggest return on investment. But it is important to have the right size slurry tanker based on the tractor available and the farm topography. Often, too small of a slurry tanker is being implemented, which greatly impacts efficiency on the amount of volume spread in a day.

It is more efficient to implement a larger slurry tanker to ensure more capacity in less loads. As a rough rule-of-thumb the tractor size required we generally say is 100 litres to 1hp. Slurry tankers are fast to set up in only five minutes. A hydraulic auto-fill arm takes the work out of manually moving hoses and couplings onto the tanker, making it a hassle free process. The filling station is already at the pond, which makes it simple to drive up to the pond, drop the auto-fill loading arm, fill up the tanker, and drive to the paddock to spread.

Drag Hose System

A hose reeler, also known as an umbilical or drag hose system, is a method of applying effluent that can be the most efficient method for spreading once it is set up. Unless the system includes a motorised pump, a hose reeler system does require the use of two tractors. One tractor is used on the paddock to apply effluent with an applicator, such as a RainWave™, while the other tractor is back at the pond or storage facility utilising a large volume PTO pump. Once set up, it is the fastest method of transporting effluent from the storage facility to the paddock. The volume of effluent spread with a drag hose system can be up to around 1,500,000 litres per day. Making this the fastest and most efficient way to spread effluent, however, the limitations are the length of drag hose available, restricting the system from reaching the further away paddocks.

Figure 1. Effluent spread rate per application method.

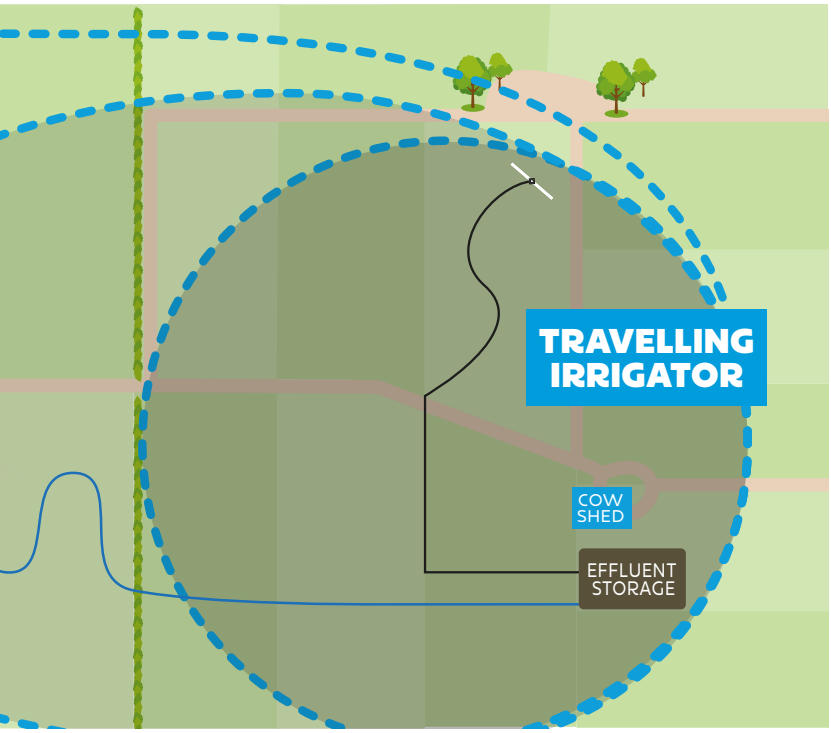


Figure 2. Effluent spread distance covered per application method.

What is the most efficient way of spreading effluent?

The most efficient way of spreading effluent can depend on your farm, however, the fastest method once set up is the drag hose system.

Slurry tankers can offer more flexibility, but are not quite as efficient for maximising the amount of effluent that is able to be spread in a day. Typically a hose reeler offers a two day job where effluent can easily be applied at high volumes.

A slurry tanker can easily follow a cow herd rotation. Talk to our team to learn more about the most efficient effluent spreading method for your farm, to maximise the return from these valuable nutrients.

ON FARM CASE STUDIES

From investing in a state-of-the-art Nevada slurry tanker to adopting technologies that reduce environmental impact and improve farm productivity, John's story is one of resilience, resourcefulness, and forward-thinking. Here's how this multi-generational farm continues to grow and thrive while embracing modern agricultural advancements.

Located in the Waikato region just 10 minutes from Cambridge is John Charlton's family farm of 105 years. What started as 40 hectares has grown to 112 hectares of thriving farmland. "My father has been very passionate about buying land as it has come up and we've been able to purchase little bits as we go," John said.

John and his wife have leased their flat contour and sandy loam soil farm for 20 years from the family. With 340 cows split into two herds of Jersey and Fresian cows, the paddock rotation is made easier with the varying sizes of each section. "It works well with a two-herd system," John remarked.

Being a System 3, the farm consists of in the shed feed and round bale silage with the cows on pasture all year round. When it comes to the effluent management system, John keeps it as simple as possible. The effluent system includes a 500,000 litre bladder tank for the bulk of storage along with a 30,000 litre underground tank that is gravity fed from the shed itself. The underground tank is pumped directly to a slurry tanker, and then spread throughout the farm regularly.

As technology has changed over the years, it has made it easier to spread effluent more efficiently and with less hassle. The family farm has never used an irrigator and has continually utilised slurry tankers since the 1950s. "Our previous systems were very similar using slurry wagons, but the advances in the Nevada ones make it a lot more efficient and easy for staff to use," John noted.

When it came time to upgrade, John purchased a **Nevada 10,000L Slurry Tanker** which provided the equipment to spread effluent at a low rate across a large portion of the farm. "The process for purchasing was very simple. It was very easy and the delivery was very simple as well even though we are not in the same district. And the follow up service has been good as well," John said.

The flexibility of the Nevada single axle slurry tanker offered better navigation through narrow gateways, the ability to get near hedges, and space awareness to avoid troughs. With many lifestyle block owners nearby, John was concerned about lowering wind drift while still being able to reach the furthest corners for even growth

John has increased capacity and lowered the fertiliser bill by getting effluent onto 90% of the farm with a Nevada slurry tanker.

WATCH JOHN'S CASE STUDY ONLINE
nevadagroup.com.au/videos/on-farm-case-studies

across the paddocks. To go alongside the slurry tanker, John chose a RainWave™ attachment, which ensured effluent application closer to the ground with fewer particles going above the hedgeline. John immediately noticed the difference of less wind drift, enabling him to get closer to hedges and boundary fences without concern.

Over the last 10 years, John has tried other brands of slurry tankers with features that didn't offer longevity or ease of use. Previous slurry tankers did more damage turning sharp corners and going through tight gateways on the farm. When researching what slurry tanker could offer all the features he was looking for, it was the double galvanisation that sealed the deal. "The internal galvanising, which is not always the same in all tankers in the ones we were quoted, were not internally galvanising, so that was a big attraction... and I've already seen evidence of the extra galvanising on the Nevada tankers doing its thing, it's clearly a better long lasting product than what I've used in previous effluent tankers," John said. Additional advantages of the features included easy maintenance, floatation tires, large side glass, and an auto-filling arm that saves staff from having to manually connect pipes. The system provided no challenges in setting up and continues to be a valuable asset on the family farm.

John has increased capacity and lowered the fertiliser bill by getting effluent onto 90% of the farm with a Nevada slurry tanker. "We find it works a lot better for our system to spread regularly and it just allows that instant use of fertiliser of the effluent onto the farm paddocks and the instant response we get from following the cows around on the pasture rotation," John noted.

For farmers who are looking to get a slurry tanker, John said "it's not as time consuming as you might think." The efficiency of the technology and the design of the slurry tanker allows for greater capacity of loads in less time, making it easier for staff to get the job done. "I would recommend the Nevada tanker for the ease of use and the efficiencies of all the technology involved on it with the auto-fill arm and the RainWave™. And it's very easy for myself and the staff to use. So yes, I would recommend it for sure."

AT-A-GLANCE
John Charlton

REGION
Waikato

FARM SIZE
112ha

CONTOUR
Flat with some hills

COWS
340

INPUTS
System 3
Grass and Silage

EFFLUENT STORAGE
500,000L Bladder Tank

30,000L Under Ground Tank

PRODUCTS
- Nevada 10,000L Single Axle Slurry Tanker

Figures are approximate only.

CUT YOUR FERT BILLS
COVER YOUR ENTIRE FARM
WITH A NEVADA SLURRY TANKER

SMALL - MEDIUM FARMS ····· MEDIUM - LARGE FARM

6,100L SINGLE AXLE

MB60EX

Tank Capacity	6,150L
Length	5.9m
Pump Capacity	6,500L/min
Suspension	Drawbar optional
Axle Type	Single
Wheel	550/45 - 22.5
Ezi-Load Arm	Optional

8,200L SINGLE AXLE

MB80EX

Tank Capacity	8,200L
Length	6.3m
Pump Capacity	8,000L/min
Suspension	Drawbar
Axle Type	Single
Wheel	560/60R - 22.5
Ezi-Load Arm	Optional

10,000L SINGLE AXLE

MB100EX

Tank Capacity	10,000L
Length	7.2m
Pump Capacity	13,500L/min
Suspension	Drawbar
Axle Type	Single
Wheel	600/55R 26.5
Ezi-Load Arm	8" suction tube

10,000L TANDEM AXLE

MB1004R

Tank Capacity	10,000L
Length	7.2m
Pump Capacity	13,500L/min
Suspension	Axle & drawbar
Axle Type	Tandem/1-steering
Wheel	560/60R - 22.5
Ezi-Load Arm	8" suction tube
Self-steering	Rear axle

MS AND CONTRACTORS

LARGER MODELS AVAILABLE UPTO 43,000L

12,800L TANDEM AXLE

MB1204R

Tank Capacity	12,800L
Length	7.4m
Pump Capacity	13,500L/min
Suspension	Axle & drawbar
Axle type	Tandem/1-steering
Wheel	560/60R - 22.5
Ezi-Load Arm	8" suction tube
Self-steering	Rear axle

14,700L TANDEM AXLE

MB1404R

Tank Capacity	14,700L
Length	7.9m
Pump Capacity	13,500L/min
Suspension	Axle & drawbar
Axle type	Tandem/1-steering
Wheel	560/60R - 22.5
Ezi-Load Arm	8" suction tube
Self-steering	Rear axle

16,500L TANDEM AXLE

MB1604R

Tank Capacity	16,500L
Length	8.4m
Pump Capacity	16,500L/m
Suspension	Axle & drawbar
Axle type	Tandem/1-steering
Wheel	560/60R - 22.5
Ezi-Load Arm	8" suction tube
Self-steering	Rear axle

20,000L TRIDEM AXLE

MB200TRIDEM

Tank Capacity	20,000L
Length	8.5m
Pump Capacity	16,500L/min
Suspension	Axle & drawbar-HYD
Axle Type	Tridem/2-steering
Wheel	560/60R - 22.5
Ezi-Load Arm	8" suction tube
Self-steering	Front & rear axle

NEVADA 12,800L TANDEM SLURRY TANKER

Invest in Australia's most popular size slurry tanker!

Manufactured from the highest-grade steel and galvanised inside and out to provide heavy-duty performance that will last a lifetime. What's more, all Nevada Slurry Tankers include our recommended RainWave™ nutrient spreader as a standard feature (although other spreading applicators are available). Now you can really make use of that liquid gold!

The Nevada 12,800L Slurry Tanker is a versatile machine that can handle everything from heavy slurry to more liquid effluent. They allow for low application rates and accurate placement, ensuring you're applying nutrients precisely where they're needed on every paddock, across the entire farm.

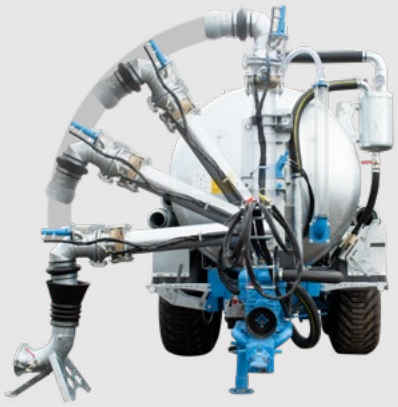
https://nevadagrou
products/slurry-ta

Better Application RainWave™ Applicator

Standard on all Nevada Slurry Tankers, the RainWave™ applicator uses low pressure combined with a controlled pattern to achieve a wider, more controlled spread. Larger droplets mean virtually no wind drift and volitisation for better nutrient absorption.

Extra Heavy Duty Ballast 16500 Vacuum Pump

The Nevada 12,800L Tandem Slurry Tanker is fitted with a heavy duty Italian made air inducted cooling vacuum pump. Combined with integrated crash protection these vacuum pumps have a longer duty cycle, creating less wear in warm conditions.



Fast Loading 8 inch Auto-Fill Arm

Filling up is a breeze with the standard 8in Auto-Fill arm on Nevada tankers. Operated from the tractor seat, simply line up to the ezi-load filling station and drop the arm down by a lever.

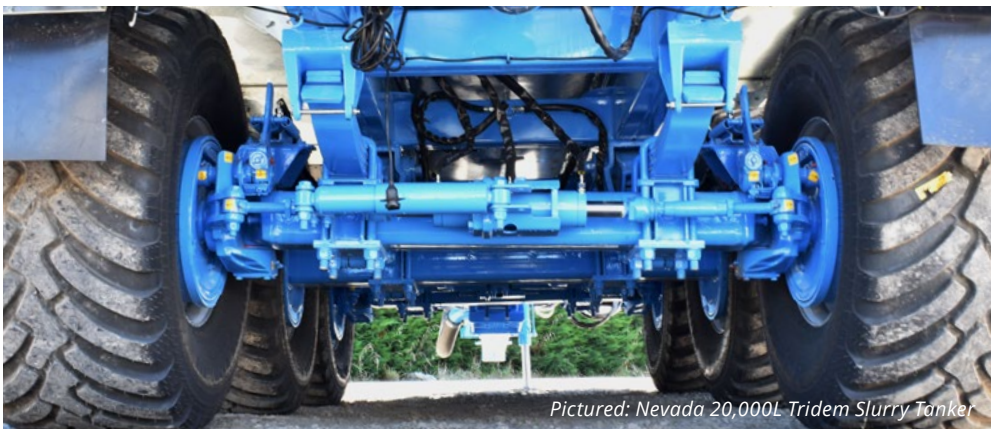
The 12,800L can load in 3-5minutes, getting you back spreading on the farm faster.

NEVADA
12,800L TANDEM SLURRY TANKER

0% INTEREST

REPAYMENTS ONLY
$2,507/mth*

** Normal lending criteria applies. Other conditions may also apply. Limited stock. Phone for more details. Offer ends 31/03/2025*



Pictured: Nevada 20,000L Tridem Slurry Tanker

Longer Lasting Galvanised inside and out

Manufactured from the highest-grade steel and galvanised inside and out to provide heavy-duty performance that will last a lifetime.

Whats Underneath

The Nevada 12,800L offers a smooth towing experience even at higher speeds, thanks to it's dual-axle and drawbar suspension, which minimises shock loading on the axles. This slurry tanker also features advanced industrial braking on all four wheels, equipped with large floatation tyres for optimal performance.

SEE THE NEVADA 12,800L SLURRY TANKER IN ACTION
nevadagroup.com.au/products/slurry-tankers/tandem-axle

ON FARM CASE STUDIES

Nestled in the heart of the Waikato, near Otorohanga in the Otewa region, lies a thriving family-run dairy farm spanning 222 hectares. Home to 480 cows, managed through a 36-bale rotary cowshed with a split calving season in spring and autumn.

Fabian along with his wife Kylie and kids run a system 3 to 4 with maize, grass silage and DDG all year round along with Lucerne that is grown on farm.

Kylie looks after all the milking and manages AI for calving while Fabian looks after the effluent management system that previously was a messy hassle of a task. Before switching to Nevada, the dairy effluent management system consisted of an old truck pump and an electric pump that ran to stationary or travelling cannons. The cannons were slow and time consuming to put into place. "It was an absolute nightmare as far as weather was concerned trying to get it out in time," Fabian said. Spray drift was also a great challenge, which prompted a call from the neighbour asking for him to turn off the cannons due to the smell. In a need to finish the job, he offered the neighbour $100 for them to go out to dinner.

With compliance changes and the need for more capacity, Fabian decided to implement a 20 million litre pond with a weeping wall system and concrete tank. After not doing anything with the pond for two years, Fabian figured, "I would get myself a Christmas present and I told my wife I wanted a Nevada tanker."

Fabian received a **Nevada 12,800L Tandem Slurry Tanker** that year for Christmas that could be filled via the concrete tank next to the weeping wall, which is gravity fed from the lined pond at the top of the hill. Fabian noted, "I've owned a Nevada tanker for 5 years now. It's really low maintenance." Only minor upkeep is needed and the **RainWave™** attachment releases larger droplets that provide less wind drift. "I'll drive around my house, my tenant's house, I don't have any issue and I haven't had a complaint," Fabian said. Even the others in the district noticed the spread pattern from a Nevada tanker was nicer than their tankers from other companies.

When asked why he chose a Nevada tanker, Fabian noted his father worked for a galvanising company in Australia years ago that informed the decision. His father said, "anything galvanised lasts." The silver bullet of a tanker also offers an 8inch auto-fill arm function, which allows Fabian to stay in the tractor instead of managing messy irrigators.

An additional benefit of the tanker is the ability to utilise the nutrients from effluent directly, instead of applying artificial nitrogen. With more reach to crop paddocks further away, Fabian has noticed the benefits in the maize and grass growth. "We had four years of drought in a row, some really hard summers, feeding constantly, so twice a day feeding," Fabian said. To help with the drought, he would often spread effluent with the Nevada Slurry Tanker until two or three in the morning. "Some might say I was crazy, but we recovered a lot faster as soon as we got five

"I'm comfortable taking the tanker everywhere that I can get"

millimetres of rain or anything like that. Our grass jumped out of the ground."

Fabian is able to access 70% more of the farm with greater capacity to grow grass and increased days in milk. "I recommend Nevada slurry tankers to anyone," Fabian said. It only takes three minutes to load and three minutes to unload, with the majority of the time spent travelling across paddocks. "I'm comfortable taking the tanker everywhere that I can get," he said.

When asked what he thought of the Nevada Slurry Tanker, Fabian responded, "The Nevada tanker was number one for me, love it."

AT-A-GLANCE
Fabian Pereira

REGION
Waikato

FARM SIZE
222ha

CONTOUR
Flat to rolling with hilly back country

COWS
480

INPUTS
System 3-4, Maize and Grass Silage aswell as DDG and lucerne

EFFLUENT STORAGE
20, 000, 000L HDPE Lined Pond, with a weeping wall System and concrete tank.

PRODUCTS
- Nevada 12,800L Tandem Slurry Tanker

Figures are approximate only.

WATCH FABIAN'S CASE STUDY ONLINE
nevadagroup.com.au/videos/on-farm-case-studies

NEVADA ELECTRIC STIRRERS

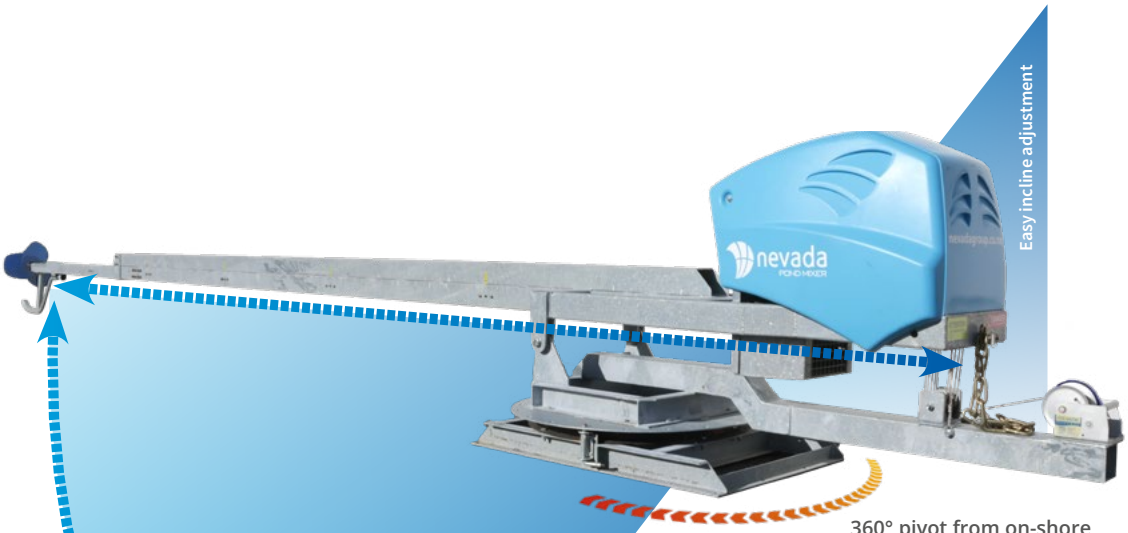
Swivel & Incline angle adjusted from on-shore

FROM $16,890 +gst

7m Range Nevada EL7

Ideal for shallow ponds and steeper slopes.

7m Range	EL710	EL715	EL720
Power	10HP	15HP	20HP
Galvanised	Yes		
Bearings	Enduro Block		
Propellor	Typhoon™		



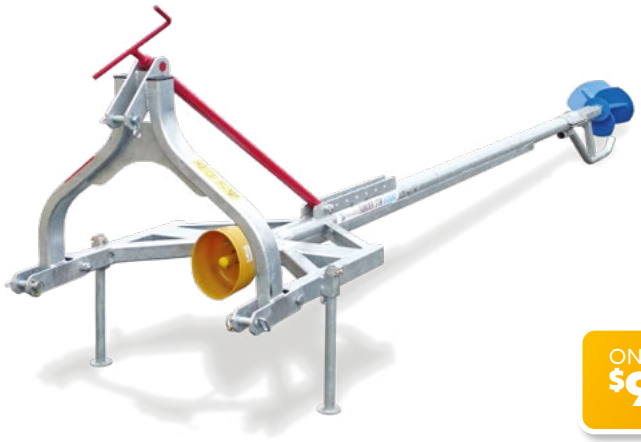
FROM $22,800 +gst

9m Range Nevada ELZ9

Ultra heavy-duty slew ring base, ideal for big ponds and gentle slopes.

9m Range	ELZ910	ELZ915	ELZ920	ELZ925	ELZ930
Power	10hp	15hp	20hp	25hp	30hp
Galvanised	Yes				
Bearings	Enduro Block				
Propellor	Typhoon™				

NEVADA PTO STIRRERS



Nevada FarmerStir™ 6000

Ideal for small to medium ponds

Ideal for small to medium ponds that are easily accessible. Easily move around the pond with a convenient tractor-mounted design for mobility.

Shaft Length	5.5m
Adjust	Quick Crank
Galvanised	Yes
Bearings	Enduro Block
Propeller	Medium Typhoon™

ONLY **$9,490** +gst

Nevada TurboStir™ 6000

Ideal for medium to large ponds

Both TurboStir models have a convenient hydraulic angle adjustment that can be operated from the tractor seat.

Shaft Length	6.5m
Adjust	Hydraulic
Galvanised	Yes
Bearings	Enduro Block
Propeller	Large Typhoon™

ONLY **$10,650** +gst

Nevada TurboStir™ 7000

Ideal for large ponds

The TurboStir™ 7000 is known as the king of pond stirrers.

Shaft Length	7.4m
Adjust	Hydraulic
Galvanised	Yes
Bearings	Enduro Block
Propeller	Extra Large Typhoon™

ONLY **$13,250** +gst

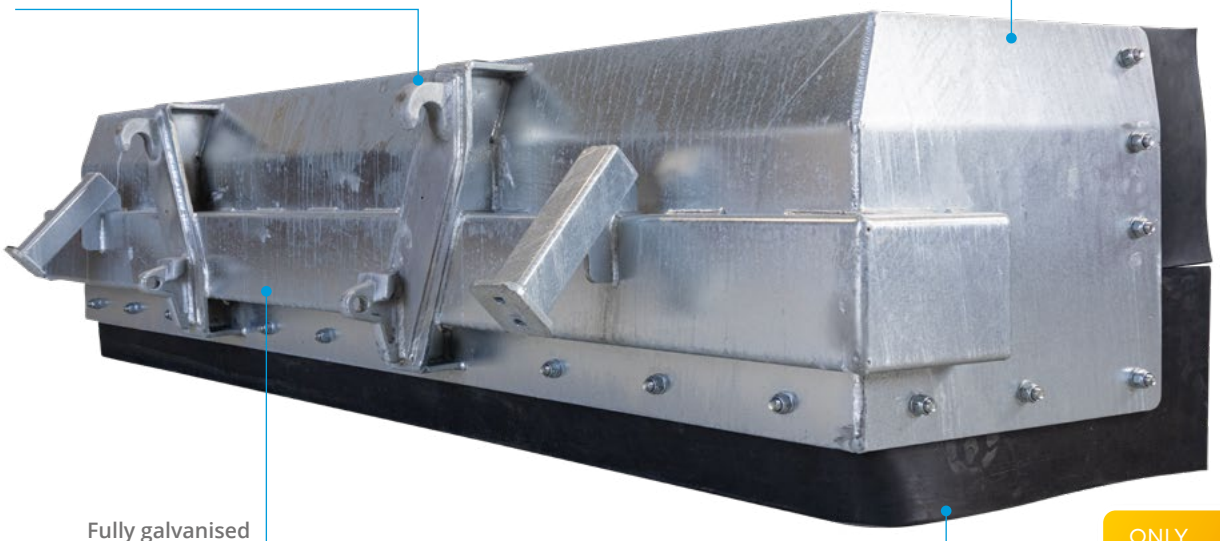
Nevada Yard Scraper

2 Year Warranty

Maintaining a clean and healthy environment for your cows is paramount, and that's where our new Nevada Yard Scraper comes into play.

The Nevada Yard Scraper is designed to efficiently scrape and collect dairy effluent from areas where cows congregate, such as milking sheds and holding yards. The waste can be pushed into your pond or a collection point such as a sandtrap, preventing runoff and protecting local waterways. This not only helps in meeting stringent environmental regulations but also promotes better cow health by reducing the risk of disease enhancing overall farm hygiene.

Scraping width of 2800mm



ONLY $5,900+gst

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Sustainable Effluent Management