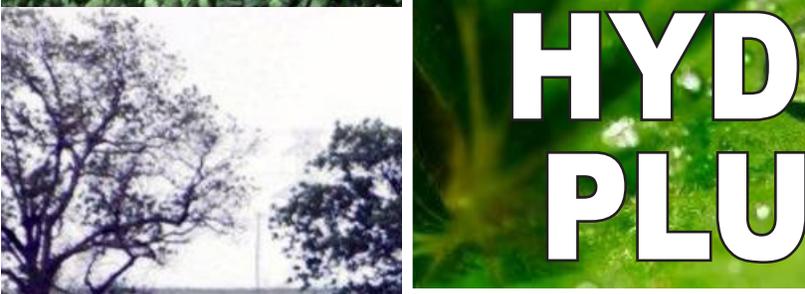




**Growing And Saving With
Texas Refinery Corp**

HYDRATE PLUS NF



HYDRATE PLUS NF



HYDRATE PLUS NF
breaks surface tension,
allowing chemicals to
completely coat leaves and
increase the chemical's
effectiveness.



Without HYDRATE PLUS NF,
water/chemicals bead up
and run off.



With HYDRATE PLUS NF,
water/chemicals completely
saturate leaves.

TRC



Approved as a tank mix adjuvant with:

- ✓ Monsanto Xtendimax w/VaporGrip
- ✓ Dupont FeXapan w/VaporGrip
- ✓ BASF Engenia
- ✓ Dow Enlist One
- ✓ Dow Enlist Duo

A Drift Reduction Agent is not required!

HYDRATE PLUS NF



◆ Uniquely Formulated Surfactant

HYDRATE PLUS NF is a uniquely formulated surfactant. HYDRATE PLUS NF is a non-foaming wetting agent that drastically reduces surface tension of water and chemicals.

This uniquely designed product is for today's spraying systems.

The non-foaming formulation reduces foam in the chemicals that HYDRATE PLUS NF is combined with eliminating in most cases the need for an additional defoamer to be added.

By breaking surface tension, the bead of water/chemical is forced to break down, sheet, and penetrate quickly.

This allows for a more potent application with less runoff and evaporation resulting in a more efficient treatment that lowers the cost of application.



◆ For Use With Fertilizers, Herbicides, Water, Insecticides, and Fungicides

HYDRATE PLUS NF eliminates potential headaches for farmers. It allows products such as pesticides that are naturally water resistant to bond and stay mixed thoroughly.

Another challenge is application of chemicals on waxy leaf plants. Chemicals alone will not penetrate these type plants. HYDRATE PLUS NF allows the surface tension to break and the chemical applied to penetrate much more efficiently.

Contact kill products, when mixed with HYDRATE PLUS NF, have a stronger, longer lasting kill.

Chemicals or irrigation water mixed with HYDRATE PLUS NF are far more effective. HYDRATE PLUS NF can even be applied with the use of crop dusters.

HYDRATE PLUS NF actually benefits spraying equipment by reducing salt and mineral deposits on spray nozzles; thus, helping to keep nozzles clean, clear, and spraying properly.



◆ Safe and Environmentally Friendly

HYDRATE PLUS NF is a non-toxic biodegradable surfactant that is designed to be used on deciduous trees, edible crops, vegetation, and grasses. It contains a pH level in the range of 10.0 - 12.5 in concentrate and pH 7/Neutral in 1:800 ratio.

Due to HYDRATE PLUS NF being non-corrosive, it is safe on the applicator and the application equipment.

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Since 1922**

HYDRATE PLUS NF is non-ionic. This means that it is not affected by the chemical bond between two oppositely charged ions. This is vital when dealing with certain chemicals where if their positive or negative charge changes, a chemical becomes ineffective.

HYDRATE PLUS NF's neutral charge ensures that chemicals and water will work in tandem to provide uniform application.

◆ **Multi-Functional**

There are many other areas which can benefit tremendously from its performance. HYDRATE PLUS NF can be mixed with water and sprayed on dirt areas to reduce dust.

It can be applied to asphalt directly during road destruction to prevent the asphalt from sticking to the teeth on the equipment. On golf courses, in addition to improving chemical/fertilizer applications, HYDRATE PLUS NF can be applied directly to water puddles on the course. This will break the surface tension allowing the water to be absorbed quicker into the ground.

HYDRATE PLUS NF is a superior wetting agent that serves many functions, such as a penetrant, a dispersant, and a rinse aid.

Using Guidelines for HYDRATE PLUS NF

Hydrate Plus NF should be added to a chemical mixture in the order recommended by the chemical manufacturer for a non-ionic surfactant.

***Average recommendations for mix. (Some ratios may vary depending on product mixed) ***

	100 Gallon Final Mixture	Ratio
Agriculture		
Fertilizing	1/2-2 pints	1:1600 to 1:400
Pesticides or Waxy Leaf Applications	1-3 pints	1:800 to 1:400
Golf Courses		
		32 oz. per acre
Injection Method		1-2 oz. per acre
Hose		1-2 oz. per 1,000 sq. ft.
Spray Tank		1-2 pints per acre
Nurseries		
Injection Method		1 oz. per 1,000 sq. ft.
Spray Tank	1-2 pints	1:1600 to 1:400
Road Compaction/Dust Control	1-2 pints	1:800 to 1:400
Other Applications	1-3 pints	1:800 to 1:270

SPECIFICATIONS

HYDRATE PLUS NF
Product Code # 1300

SPECIFIC GRAVITY	(H2O=1):1.01
pH (Concentrated)	10 - 12.5
pH (1:800 ratio)	7/Neutral
Biodegradable	Yes
Color and Odor	Clear, Green Liquid - No Odor

Please Protect HYDRATE PLUS NF from Freezing.

WA Reg. No #99799-14001

Handling Information: For safe handling of the product, read the Safety Data Sheet (SDS).

The ingredients of HYDRATE PLUS NF are generally regarded as safe; complying with CFR, Title 21, Part 178-3400 as well as Part 182.99 and CFR, Title 40, Part 180.100(c) and (e).

TEXAS REFINERY CORP

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FOUR FINER POINTS ON HYDRATE PLUS NF



There's a reason more and more farmers refuse to spray pesticides and agricultural chemicals without HYDRATE PLUS NF in the tank. Simply put, it works. And it works WELL... better than any other surfactant or wetting agent on the market. It's not just functional, it's multifunctional. HYDRATE PLUS NF can singlehandedly replace or eliminate the need for each of the additives farmers are accustomed to mixing with chemicals. Additives like defoamer, drift control agents, crop oil, and AMS (in most cases) are no longer necessary when using HYDRATE PLUS NF.

The unique formula that makes up HYDRATE PLUS NF allows it to be gentle on crops while "taking no prisoners" in the war on pests and weeds. Even the most resistant weeds are penetrable when attacked by an herbicide mixed with HYDRATE PLUS NF. The results can be seen in just a few days. The weeds are dead and yet there are virtually no visible harmful effects, such as yellowing, to the surrounding plants/crops. It's easy to see why everyone who tries it ends up buying it. They become firm believers in what this surfactant can do.

*Jason Thompson,
an aerial crop sprayer,
had this to say: "I refuse to
spray without this in my tank.
The tank and nozzles are clean
from plugging. Plus, I use no
drift control and still never fly
back through my spray."*

There are four types of chemicals commonly used by farmers, landscapers, and golf courses. Herbicides (kill unwanted plants), fertilizers (stimulate growth), insecticides/pesticides (control insects), and fungicides (eliminate fungi). HYDRATE PLUS NF can be mixed with each of these types of chemicals to enhance their function and improve their efficacy, whilst minimizing loss due to runoff, evaporation, and rain.



"HYDRATE PLUS NF has saved me from buying four other products!" says Danny Parker. Danny has sprayed Liberty Herbicide three different ways, side by side, as a test. The first tank was Liberty and AMS, the second tank held Liberty, AMS, and HYDRATE PLUS NF, and the third tank was Liberty and HYDRATE PLUS NF. All chemicals were mixed as directed and applied at recommended ratios. The two areas with HYDRATE PLUS NF in the tank showed a faster, longer lasting, and more complete kill (even on three-foot tall pigweed). This proved to Mr. Parker that his operation no longer needed AMS.

- 1) ELIMINATES DEFOAMER:** The NF in HYDRATE PLUS NF means non-foaming. Defoamers can be expensive to use. By eliminating this ingredient, it saves money AND time!
- 2) AIDS DRIFT CONTROL:** This is generally needed with thinner surfactants. To the touch, HYDRATE PLUS NF feels heavier and slicker than other surfactants. When mixed with other chemicals, this means the droplets will be denser, causing them to fall faster and be less likely to be affected by light winds (even in aerial applications).
- 3) REDUCES CROP OIL/MISO DEPENDENCY:** Crop oils or MSO (Methylated Seed Oil) are derived from mineral oil or plant seed oils, and they are typically less effective when compared to surfactants. Oils are normally recommended on chemical labels to be used as a surfactant, "sticker/spreader", or to emulsify the chemical being mixed. As a surfactant or a "sticker/spreader", HYDRATE PLUS NF is much more effective. The action of HYDRATE PLUS NF enhances the chemicals it is mixed with, to completely sheet across a plant and help to provide penetration of the chemical. This results in less possibility of chemical burn to beans, and less possibility of chemical loss due to runoff or evaporation in spray applications. When a crop oil is needed as an emulsifier, HYDRATE PLUS NF is not a replacement.
- 4) REDUCES RELIANCE ON AMS:** Some farm chemical labels recommend using AMS (Ammonium Sulfate) with their chemical mixture. In these instances, it's important to know if the AMS is suggested for use as a water conditioner, surfactant, or, in rare occasions, as a Nitrogen source. Field testing showed Hydrate Plus NF improved results in spray mixture effectiveness when used with AMS in hard water areas. In parts of the country where AMS was directed as a surfactant, Hydrate Plus NF showed marked improvement over AMS in side-by-side tests. The fields using Hydrate Plus NF saw faster penetration, a quicker kill, consistent coverage, and was rain proof in about two hours. In cases where AMS is needed to treat water, or as a Nitrogen source, Hydrate Plus NF is compatible with AMS and can improve the overall results of the chemical application.

"Simplest thing to use---- pour one gallon into the 800 gallon tank mixture and you are ready for the most effective chemical combination on the market!"

Alex Marcum, custom sprayer.

More Effective, More Powerful, Faster Acting, Easier to Use, and More Valuable:

HYDRATE PLUS NF

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FORTIE FARMS



“The product making the largest impact on how we operate is the HYDRATE PLUS NF surfactant. To date, we have used this product to spray with our herbicides, insecticides, and fungicides on soybeans and corn. We had tried other surfactants in the past without any noticeable results. After using the HYDRATE PLUS NF we will never spray without it again.

We used Round-up and Select (Tapout) eight weeks ago at a 10 gallon per acre ratio on all our crops. Then, we added HYDRATE PLUS NF at a 1:800 ratio in our sprayers, and in only 4 days we started to see the kill occurring. Prior to HYDRATE PLUS NF it would take 6-8 days to have visible evidence of a kill with our herbicides. Now, with our herbicide and HYDRATE PLUS NF there is no visible evidence of life with herbicide resistant Johnson Grass, Pig Weed, and Dallis Grass after just 4-8 days after application.

Last year the Johnson grass never actually died, instead it wilted and looked sick. This year the only difference is the addition of HYDRATE PLUS NF. It has been 8 weeks and no growth is evident from the original stalks which are completely dead. By this time last year, we had already sprayed twice and were getting ready to spray a third time. This year, a better job was accomplished in just one application!

We also spray Quadris (a fungicide). We combine this with our application of Acephate and Sniper (pesticides) for our Red Shoulder Stink Bug and Army Worms respectively. These chemicals are sprayed at a rate of 15 gallons per acre. HYDRATE PLUS NF was mixed with these chemicals at a 1:800 ratio. We noticed the day after the application the soybeans were a darker, more vibrant green and were clearly healthier.

With the two pesticides, we have not had to reapply. In the past we would have reapplied in two or three weeks. The plants soaked up more of the chemical than in the past. In fact, last year you could see where the chemical ran off the plants and onto the ground. This year there were not any runoff marks.

Here's an interesting side note concerning Acephate, which is a powder. When spraying, several things could occur to prevent the applicator from finishing what is in the tank at the end of the day. Every year previous when the Acephate would sit in the tank overnight, it would separate out and clog a screen in the bottom of the spray rig. This year we did not have this problem. The Acephate stayed in suspension. Thus, the only thing we changed was adding the HYDRATE PLUS NF!

To add to the success we've seen with HYDRATE PLUS NF, in my 31 years of farming this is the first time I have not had to stop the sprayer and replace a clogged nozzle! We've also seen more rain this year, which usually means spraying more often, even as often as every two weeks with some chemicals. Not this year. With the HYDRATE PLUS NF, we have not had to re-spray in 8 weeks with any chemical. Plus, last year our spray rigs were having a hard time maintaining pressure. This year the pressure stays at 40 p.s.i. nonstop, and the only difference is HYDRATE PLUS NF!

At Fortie Farms, we are sold on Texas Refinery Corp's products for life!"



Mike Fortie



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Next to impossible to kill Johnson Grass completely dead after just 4 days following the spray of Round-up and HYDRATE PLUS NF! Please note this is the first time in 31 years of farming that Johnson Grass actually died and did not just look sick!



A thick cluster of Dallis Grass dry and brittle 4 days after spraying with Round-up and HYDRATE PLUS NF.



Herbicide resistant Pig Weed shriveled and dead 4 days after Round-up and HYDRATE PLUS NF!



Mike and one of his spraying rigs. For the first time in 31 years no spray nozzles have stopped up, and the chemical (Acephate) stayed suspended in the water overnight not dropping out and clogging the filter at the bottom of the tank. Plus the spray rig maintained pressure throughout the whole application process. The only difference this year was the addition of Hydrate Plus NF to the tank at a 1:800 ratio!



The Right Choice
Made In U.S.A. Since 1922

*Quality
 Products You
 Can Rely On*



BRUCE COWELL

T C Farms is just one of the many farmers in Bruce Cowell's route that is saving money hand over fist from utilizing the amazing results from HYDRATE PLUS NF.

T C FARMS

COMPANY

T C Farms is a row crop farm operation that has been in business for over 20 years. The owner also does custom harvesting all over the states of Illinois, Missouri, and Mississippi. T C Farms started using Texas Refinery Corp's products in 2012.



CHALLENGE

This farm operation, was having problems with Herbicide Resistant Weeds. The two main culprits were Mare's Tail, and Pigweed. Both of these if reaching a height of 2 feet or taller became almost impossible to kill and had to be removed by hand. The Pig weed has been known to grow several inches in one day. Both have a woody stem and have become resistant to herbicides. Due to the excess of rain during planting season this year, the chemical weed kill or "burn down" had become a headache.

SOLUTION

Texas Refinery Corp's Representative, Bruce Cowell recommended the use of HYDRATE PLUS NF at a 1:800 ratio mixed with the herbicide during all applications. This recommendation was utilized by T C Farm and the headache weeds of Mare's Tail and Pigweed were quickly reduced. HYDRATE PLUS NF has the ability to quickly break surface tension of the herbicides on the plant leaves and the soil. The HYDRATE PLUS NF bonds with the herbicide and carries it deep inside the weeds to kill them completely dead! The non-foaming formulation eliminates one extra chemical previously needed to spray.

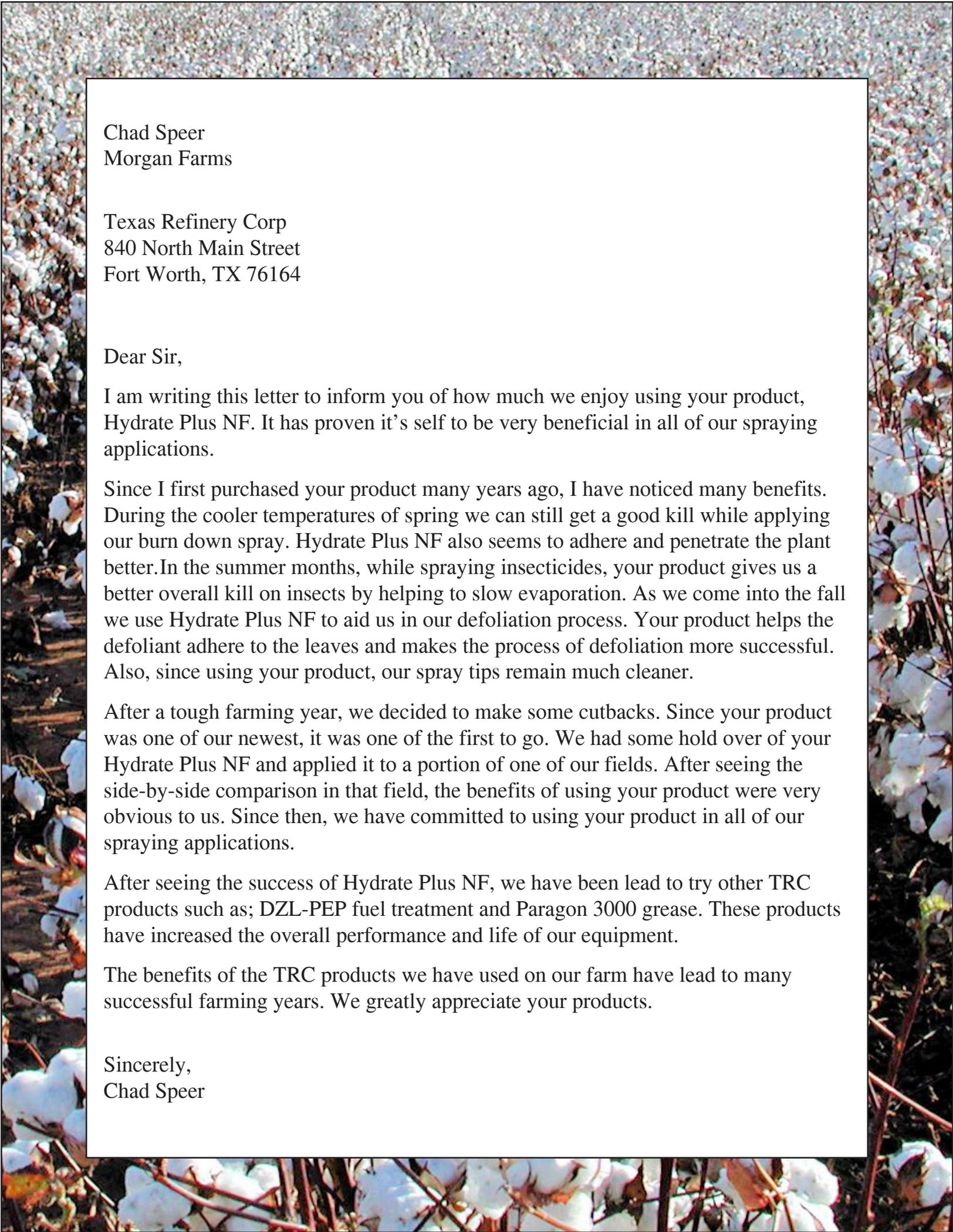
RESULTS

After the HYDRATE PLUS NF was applied, several favorable results were seen:

- ★ The resistant weeds under 2 feet in height were killed completely!
- ★ For resistant weeds over 2 feet in height, the middle of the woody stems had become mushy which allowed for easier hand removal!
- ★ During application T C Farms reduced their application rate of herbicide by half. Instead of applying 10 gallons per acre of mix they were able to use 5 gallons per acre with the same results! This resulted in several thousands of dollars saved on chemicals!
- ★ Clogged screens, and spray nozzles became a thing of the past since the switch to HYDRATE PLUS NF!
- ★ One surfactant is now being used for burn down, weed control, pesticide application, and fungicide application!

COMMENT

"The results and savings with HYDRATE PLUS NF speak for themselves. Any farmer not utilizing this one of a kind product is throwing money away! What a difference it has made for me!" Tim, owner of T C Farms



Chad Speer
Morgan Farms

Texas Refinery Corp
840 North Main Street
Fort Worth, TX 76164

Dear Sir,

I am writing this letter to inform you of how much we enjoy using your product, Hydrate Plus NF. It has proven it's self to be very beneficial in all of our spraying applications.

Since I first purchased your product many years ago, I have noticed many benefits. During the cooler temperatures of spring we can still get a good kill while applying our burn down spray. Hydrate Plus NF also seems to adhere and penetrate the plant better. In the summer months, while spraying insecticides, your product gives us a better overall kill on insects by helping to slow evaporation. As we come into the fall we use Hydrate Plus NF to aid us in our defoliation process. Your product helps the defoliant adhere to the leaves and makes the process of defoliation more successful. Also, since using your product, our spray tips remain much cleaner.

After a tough farming year, we decided to make some cutbacks. Since your product was one of our newest, it was one of the first to go. We had some hold over of your Hydrate Plus NF and applied it to a portion of one of our fields. After seeing the side-by-side comparison in that field, the benefits of using your product were very obvious to us. Since then, we have committed to using your product in all of our spraying applications.

After seeing the success of Hydrate Plus NF, we have been lead to try other TRC products such as; DZL-PEP fuel treatment and Paragon 3000 grease. These products have increased the overall performance and life of our equipment.

The benefits of the TRC products we have used on our farm have lead to many successful farming years. We greatly appreciate your products.

Sincerely,
Chad Speer



To Whom It May Concern:

My family has been farming on the steep hillsides of north central Washington for many years. We have always had a problem with properly irrigating our fields. If we applied enough water at the top of the hills for healthy, thriving crops the water would pool at the bottom of the hills creating muddy bogs and drowning the crops on the flat ends of the fields. Erosion was also a problem with this much water.

This had always been the case until a few years ago. That is when we tried Hydrate Plus NF. After trying several dilutions we have solved our irrigation problems for good.

We use pivot systems to irrigate our fields. Each of these are equipped with injection pumps to distribute chemicals in line with the irrigation water. We even have several with agitators that we use to apply fertilizer at diluted rates on the fields.

We have learned that by applying 1 quart of Hydrate Plus NF per acre, the water soaked in completely with very little loss to run-off. At this low ratio the surface tension in the fields is virtually non-existent. One thing unique about Hydrate Plus and Hydrate Plus NF, is that the surfactant Chemistry will stay in the ground for a long time.

Even with the pumps with agitators, this same ratio is used when spraying chemicals on the fields. This has resulted in a higher grade crop and a much higher yield in our fields.

Another issue we previously had with our fields included compacted soil. After constantly driving across the fields the ground had become quite hard. The Hydrate Plus NF at the 1 quart per acre every six weeks has allowed the soil to loosen again leading to healthier roots and improving the crop quality and yield.

Today and in the future you will not see us spraying or irrigating without Hydrate Plus NF in our tanks.

Sincerely,
Kevin Spence





PUTTING A PEN TO THE SAVINGS

One farm operation has used HYDRATE PLUS NF for over 10 years. They have mixed HYDRATE PLUS NF with every chemical they spray from Fungicides, Insecticides, and Herbicides to Defoliants, and Fertilizers, and even in their irrigation water. They mix it 1:800 for these various treatments on their 3,100 acre peanut/cotton operation.

Since using HYDRATE PLUS NF they have been able to actually reduce the amount of chemical in their mixes and increase the time between applications. ***The numbers they shared show a reduction of chemical by over 30%!***

Let's break that down on ONE APPLICATION of ROUND-UP:

Current cost of Round-up.....	\$19.70/gal.
Recommended application rate:	
44 oz* + 10 gal of water per acre	\$6.77/acre
3100 acres x \$6.77 (cost of Round-up).....	\$20,987

According to the testimonial from customer, reducing the chemical mixture by one-third the farmer now uses:

29 oz Round-Up + 10 gallon water + 1.6 oz. of HYDRATE PLUS NF	
Cost of Round-Up	\$4.46/acre
Cost of HYDRATE PLUS NF.....	\$0.27/acre
Total cost per acre.....	\$4.73/acre
Total cost of treated application	
3100 x \$4.73	\$14,663
Total Savings PER Application of Round-up	\$6,324

(*Mfg. recommended rate is 32 - 44 ounces per acre)

HYDRATE PLUS NF Increases Herbicide Effectiveness in a Florida Nursery

Prior to HYDRATE PLUS NF:

- 60 oz of Round-up + 40 gal of water
- 6-7 days later evidence of a complete kill
- Application rain proof in 5 hours

After adding HYDRATE PLUS NF:

- 40 oz of Round-up + 40 gal of water + 16 oz HYDRATE PLUS NF per acre
- 3 days evidence of a complete kill
- Application rain proof in 2 hour

Results with HYDRATE PLUS NF:

- Amount of Round-up reduced by one-third
- Kill time 50% faster
- Rain proof 80% faster



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