



*"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**

**TEXAS REFINERY CORP**

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