Nutrien Solutions Airfield Vegetation Management Program

Mike Maine
Nutrien Solutions who we are and what we do?

• We are Natural Resource Land Management Company. We help our clients solve problems related to vegetation management.

• We focus on increasing sustainability and efficiency of vegetation management operations on: Utility ROWs, Roadside ROWS, Aquatic, Forestry, Invasive Species, Turf and Ornamental, Municipal sites.
What does managing 9 million acres of Utility ROW have in common with Airfields?

• Utility companies need to manage their ROWs in a way that promote compatible plant communities and develop a maintenance plan that is efficient but sustainable.

• Utilities have to manage their acres in a way that is visually appealing to the public and promotes wildlife habitat.

• Airfields our goal is to manage and promote compatible plant communities and develop a maintenance plan that is efficient and sustainable.

• Airfields also have to manage acres in a way that is visually appealing to the public.
What’s the difference between managing 9 million acres of Utility ROW and Airfields?
Airfield Vegetation Management why is it important

- Critical to safety of flight operations
- FAA states must have vegetation that does not attract wildlife
- FAA recommends certain height of grass to not serve as an attractant to wildlife
- The airfield is often the “front yard” of your city want to have a good impression with visitors
- Reduce bird and wildlife incursions
Sustainable and Efficient Airfield Vegetation Solutions

- Fenceline bareground
- Crack and Crevice
- PGR Application
- Turf and Ornamental
- Aquatic
- Wildlife Resistant Turf
Airports we are currently providing solutions for in the Midwest

- Minneapolis St. Paul International Airport
- Rochester MN International Airport
- Flying Cloud Airport
- Airlake Airport
- St. Paul Downtown Airport
- Anoka County Airport
- Lake Elmo Airport
- Range Regional Airport
- Bemidji Regional Airport
- Thief River Falls Regional Airport
South and Southeast

- Bush Int’l Airport- Houston TX
- Spinks Airport- Fort Worth TX
- Fort Smith Airport- Ft Smith AR
- Lake Charles Regional Airport- Lake Charles LA
- Baton Rouge Metro Airport- Baton Rouge LA
- Clinton Nat’l Airport- Little Rock AR
- Beauregard Regional Airport- Deridder LA
- Dallas Fort-Worth International Airport
Fenceline in July no application before
Fenceline treated in May picture taken end of July
July Results
Tarmac Crack and Crevice
Tarmac Crack and Crevice
After Spraying Tarmac Crack and Crevice
Custom Blends for Airfield Bareground (Fenceline Tarmac/Crack and Crevice)

- Computerized herbicide mixes
- No field mixing
- Returnable refillable container options
- One way 5 gallon cubes of customer blend or straight goods
What is the best option to mix herbicides safely and efficiently?
A Common Airfield Bareground Custom Blend

- Esplanade 5oz per acre
- Plateau 12oz per acre
- Milestone 6oz per acre
- Detail 1oz per acre
- Water 62.5%
PGR Application and broadleaf weed control application

- Reduce Cost and increase sustainability use less fuel
  - 50% to 70% reduction versus mowing
- Increase Efficiency
  - 50% increase
- Combined with broadleaf control removes food source for wildlife
- Mowing also creates an attractant for wildlife feeding on insects stirred up in the mowing process
Seed-head Suppression
Rochester International Airport PGR Treatment
Turf and Ornamental
Turf and Ornamental
Turf and Ornamental Continued
Aquatic Vegetation Control
Nutrien Solutions Airport Special Grass Seed Mixture

- Total Endophyte will Exceed 65%
- 40% Cumberland Tall Fescue
- 30% Rain Dance Tall Fescue
- 25% Saltillo Tall Fescue
- 5% Tirem Kentucky Bluegrass
- Recommended Rate 325lbs per acre
Crew Training
Airfield Vegetation Management Solutions Provider
Additional Services

• Custom blends
• Crew training and equipment calibration
• Turnkey Management
• Field trials and testing of new herbicide mixes and products to find the most cost-effective and sustainable solution
• Treatment and Product Performance Evaluation
• Returnable/Refillable Container program (minimum quantities do apply)
• Contract and Bid Assistance
• Assistance with Vegetation Management education programs
Experience and Background

• B.S. in Urban Forestry and Parks and Recreation Management from the University of Wisconsin-Stevens Point.
• M.S. in Forest Resources and Conservation from the University of Florida with a concentration in Ecological Restoration.
• 10 years of Vegetation Management experience
• 3 years with Nutrien Solutions
• As Vegetation Specialist, I supply your operation with herbicides for your vegetation, turf, and aquatic management needs that includes a site assessment and evaluation to determine your needs and develop the best solution to meet your needs.
• Based out of Rochester, MN
Thank you!

Mike Maine

507-517-4992
Mike.maine@nutrien.com