TALC USA
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Talc USA Trial Results

Talc 80/20 + MicroSURGE for Soybeans

Talc 80/20
w/graphite

+

MicroSURGE
Soybean Inoculant
Contains
Bradyrhizobium japonicum

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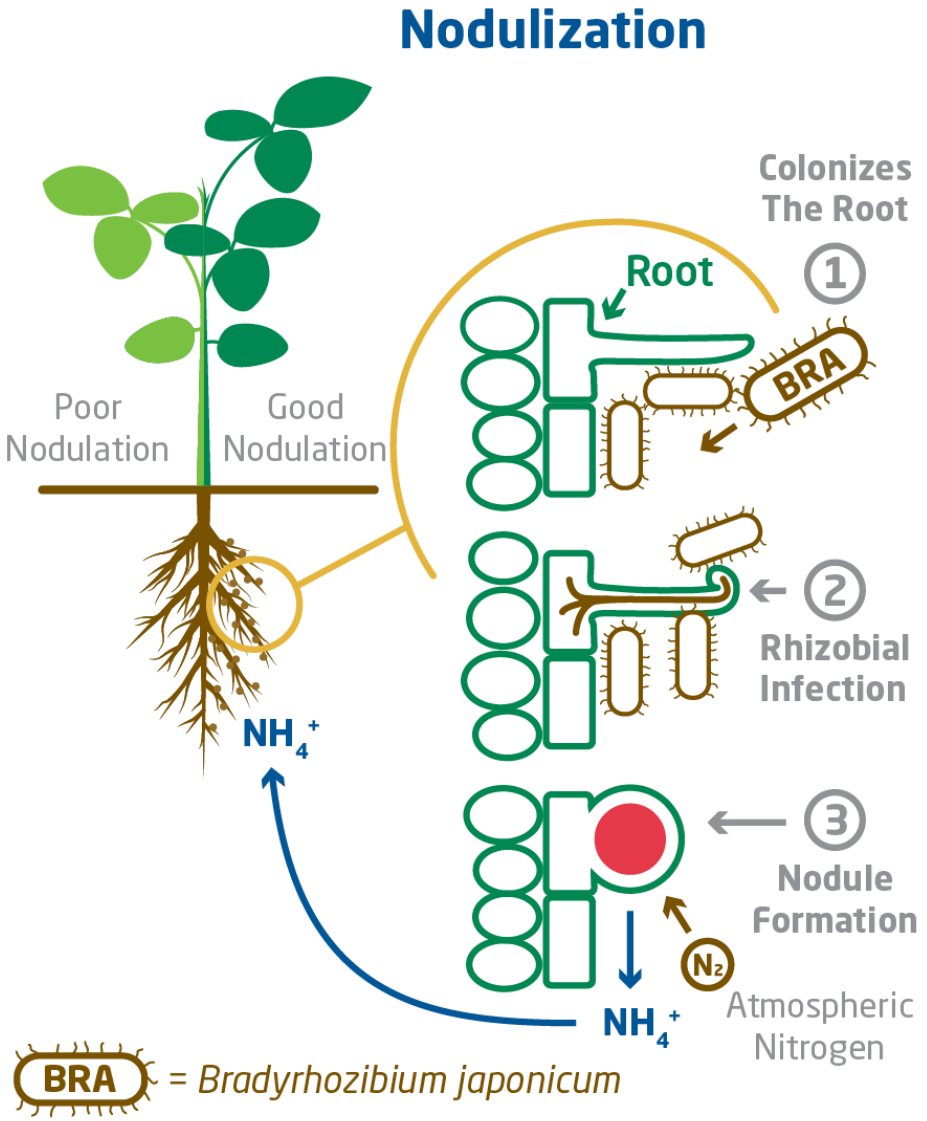
MicroSURGE for Soybeans

Inoculant: *Bradyrhozibium japonicum*

Symbiotic nitrogen-fixing soil bacterium

Legume crops are a host for the N_2–fixing bacteria, *B. japonicum* and they can obtain up to 50% or more of their N needs through biological nitrogen fixation are present in the soil



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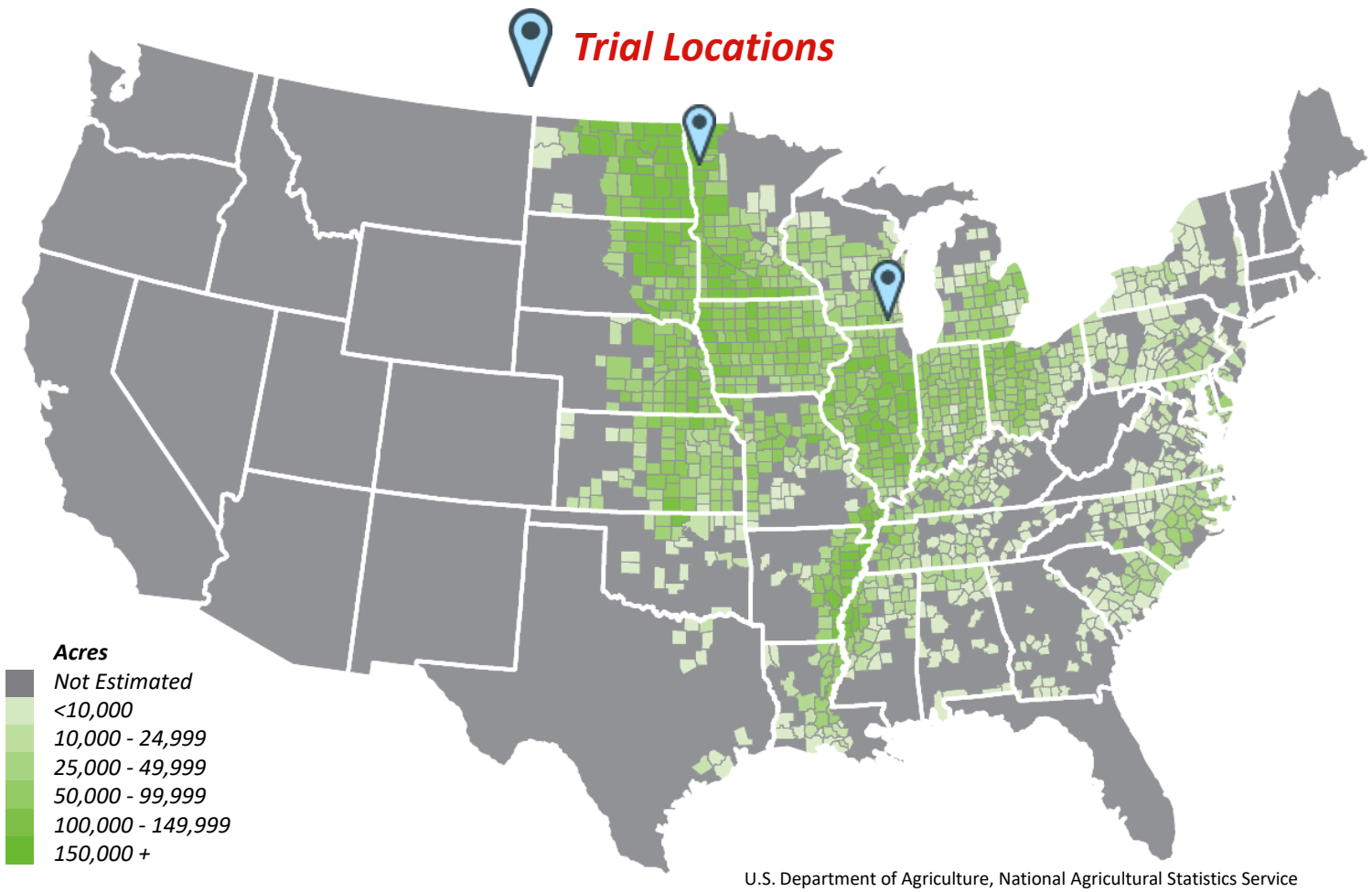
Inceptive + MicroSURGE for Soybeans
2023 Soybean Trial Locations and Yield Results



U.S. Department of Agriculture, National Agricultural Statistics Service

Location	Yield Increase
MN	-2.1 bu/ac
WI	1.75 bu/ac
Averaged Results	
Yield Increase	-0.2 bu/ac

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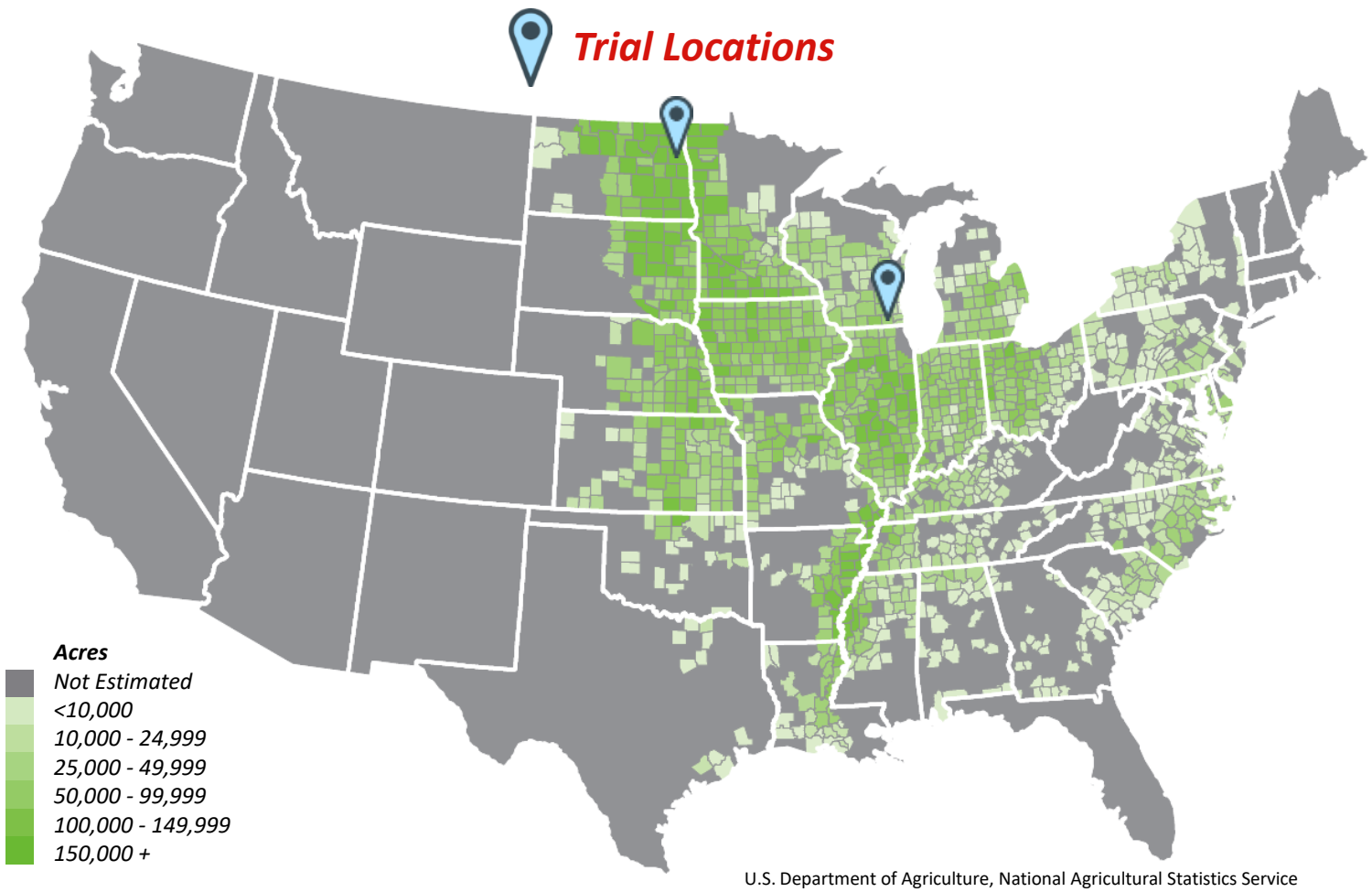
Inceptive + MicroSURGE for Soybeans + Molybdenum
2023 Soybean Trial Locations and Yield Results



U.S. Department of Agriculture, National Agricultural Statistics Service

Location	Yield Increase
ND	-0.60 bu/ac
WI	3.96 bu/ac
Averaged Results	
Yield Increase	1.68 bu/ac

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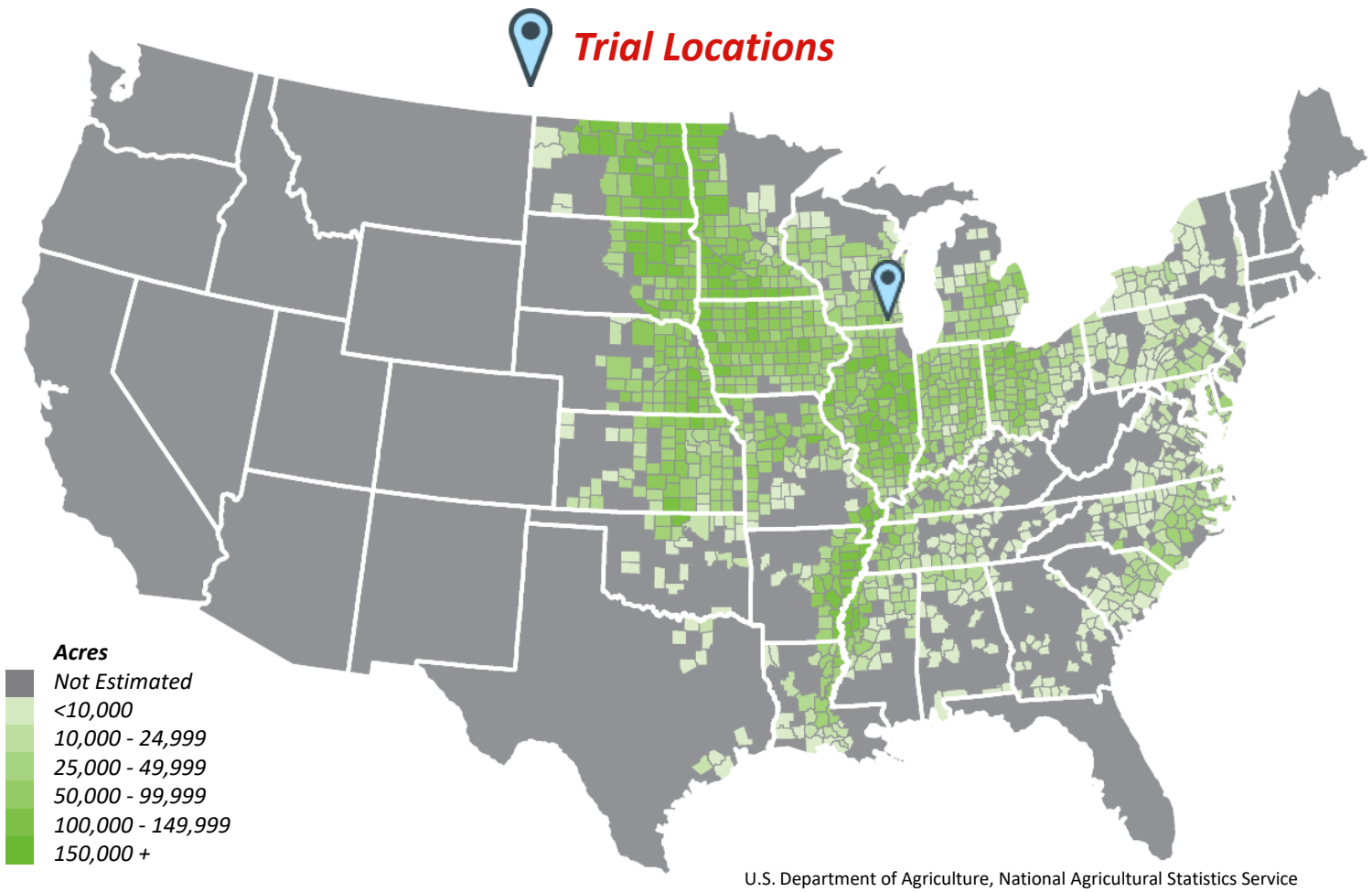
BRANDT® EnzUp® SeedFlow™ Zn
2023 Soybean Trial Locations and Yield Results



U.S. Department of Agriculture, National Agricultural Statistics Service

Location BRANDT EnzUp Seed Flow Zn	Yield Increase
WI	4.59 bu/ac

Location BRANDT EnzUp Seed Flow Zn + MicroSURGE + Inceptive	Yield Increase
WI	5.57 bu/ac

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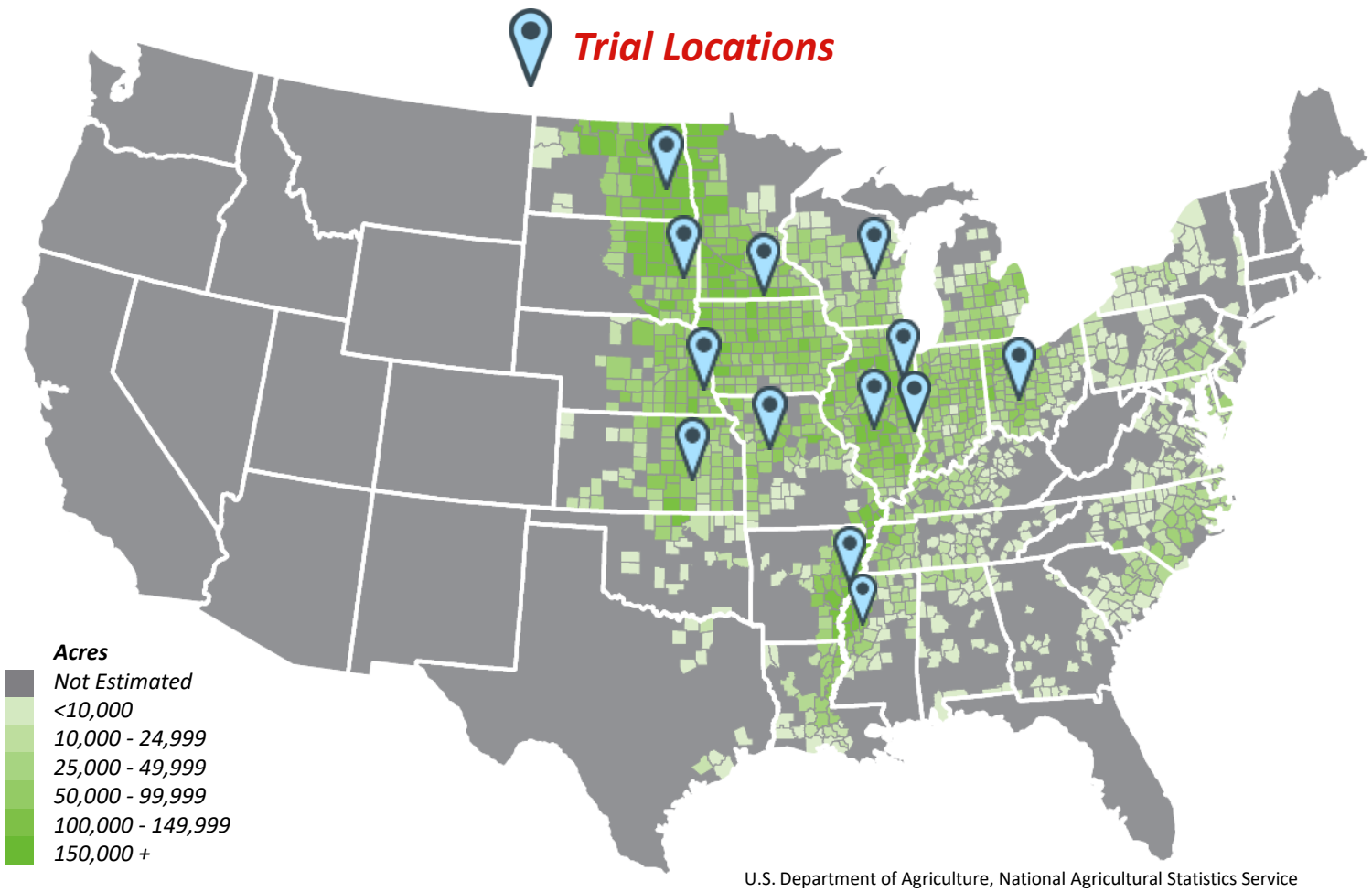
Talc 80/20 + MicroSURGE for Soybeans
2022 Soybean Trial Locations and Yield Results



U.S. Department of Agriculture, National Agricultural Statistics Service

Location	Yield Increase
SGS America, Aurora, SD	4.7 bu/ac
Mid-South Ag Research, Proctor, AR	6.2 bu/ac
Delta Crop and Research, Holly Ridge, MS	10.4 bu/ac
Buckeye Ag Testing, Urbana, OH	1.1 bu/ac
North Central Research Station, St. Johns, MI	4.4 bu/ac
Elite Research, Aurora, NE	1.6 bu/ac
BRANDT Research Farm, Pleasant Plains, IL	1.8 bu/ac
University of Illinois, Champaign, IL	2.2 bu/ac
TSM, Catlin, IL	5.4 bu/ac
KS	3.7 bu/ac
MN	-3.8 bu/ac
MO	4.7 bu/ac
ND	1.9 bu/ac
WI	0.3 bu/ac
Averaged Results	
Yield Increase	3.4 bu/ac
Grower ROI @!4/bu	$45.14/ac

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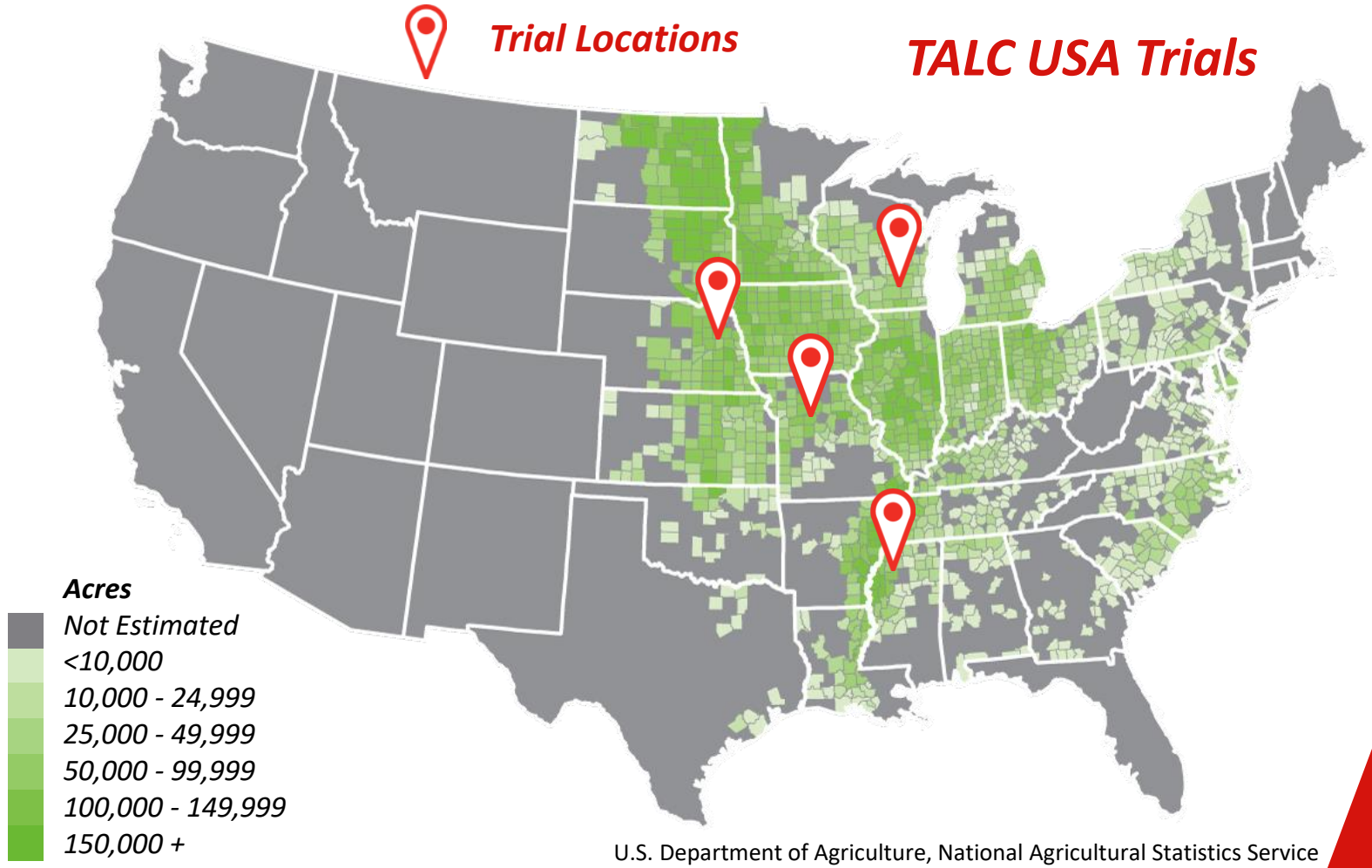
Talc USA Soybeans Trial Locations and Yield Results
MicroSURGE + Inceptive - 2016-2021

Location	Yield Increase
Mississippi	3.3 bu/ac
Missouri	3.5 bu/ac
Nebraska	3.6 bu/ac
Wisconsin	3.1 bu/ac
Averaged Results	
Yield Increase	3.4 bi/ac
Grower ROI @$14/bu	$40.44/ac



U.S. Department of Agriculture, National Agricultural Statistics Service

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Talc 80/20 + Encompass

Talc 80/20
w/graphite

+

Encompass
Contains
Azospirillum &
Pseudomonas

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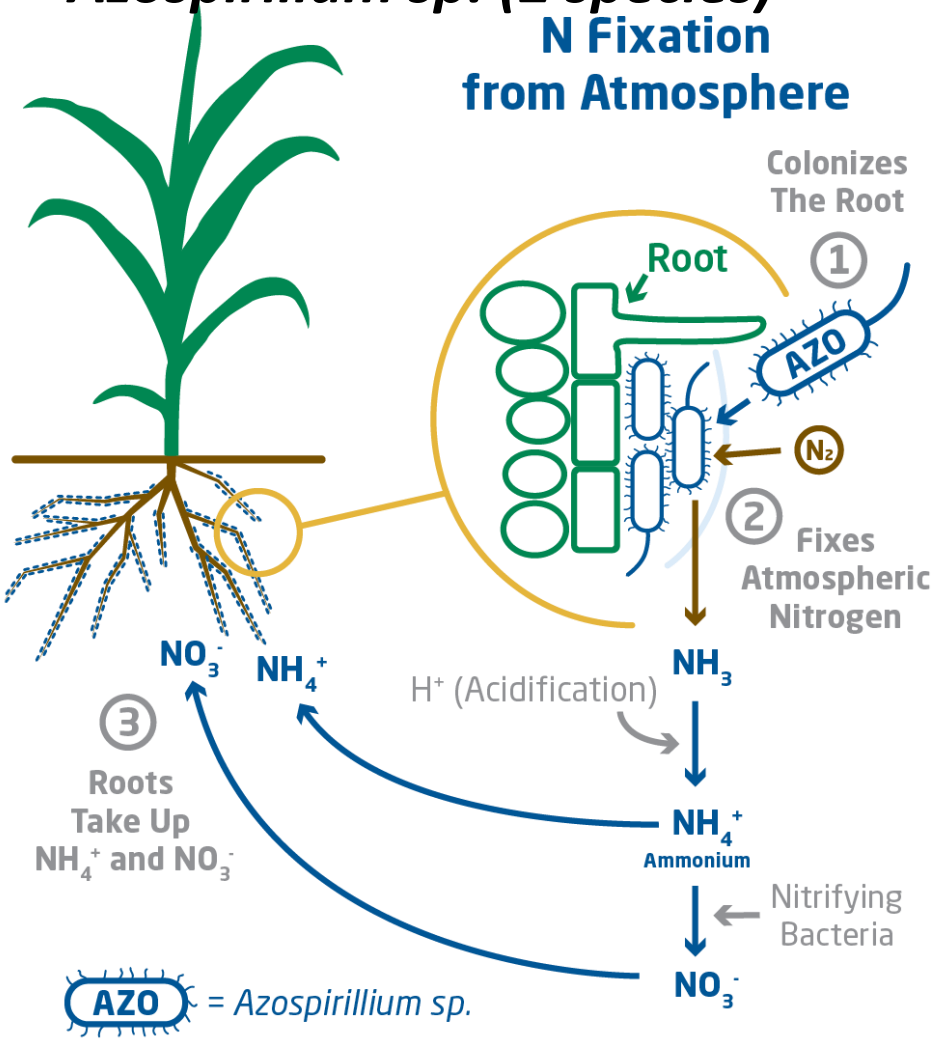
Encompass

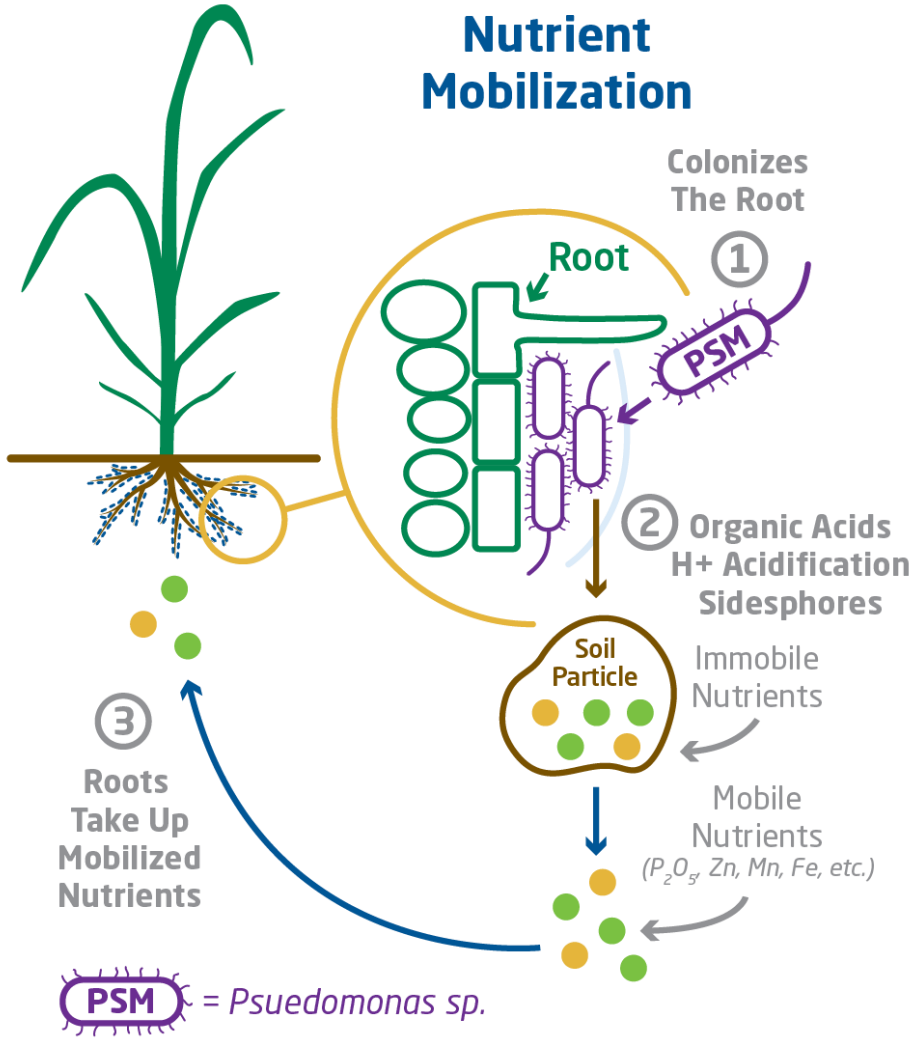
Azospirillum sp. + Pseudomonas sp.

TALC USA

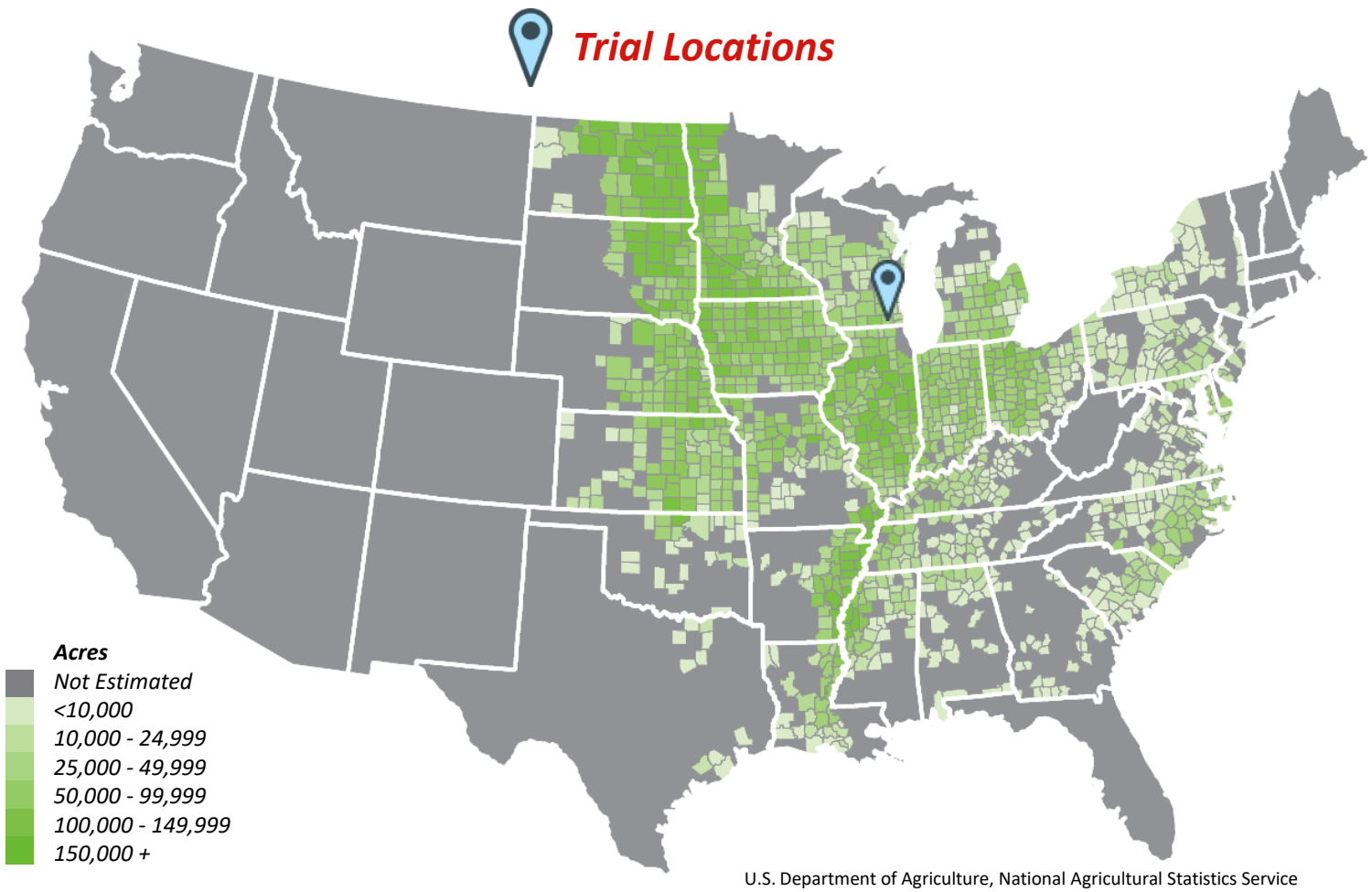
Azospirillum sp. (2 species)



Pseudomonas sp. (3 species)



Encompass - Dry
2023 Soybean Trial Locations and Yield Results



U.S. Department of Agriculture, National Agricultural Statistics Service

Location	Yield Increase
WI	3.8 bu/ac

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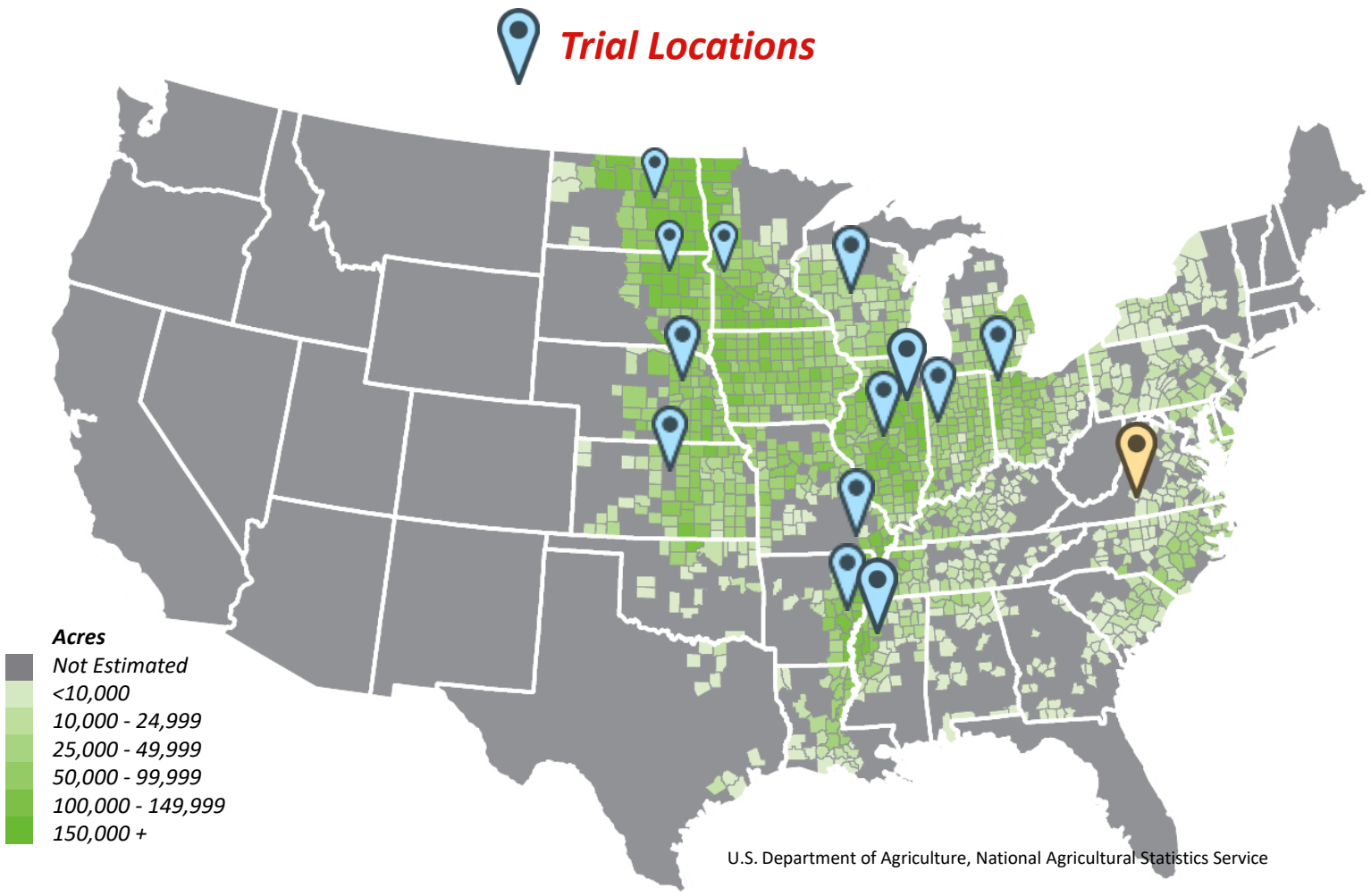
Talc 80/20 + Encompass

2022 Soybean Trial Locations and Yield Results



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Location	Yield Increase
SGS America, Aurora, SD	0.7 bu/ac
Mid-South Ag Research, Proctor, AR	3.5 bu/ac
Delta Crop and Research, Holly Ridge, MS	9.0 bu/ac
Buckeye Ag Testing, Urbana, OH	-1.0 bu/ac
North Central Research Station, St. Johns, MI	2.4 bu/ac
Elite Research, Aurora, NE	4.0 bu/ac
BRANDT Research Farm, Pleasant Plains, IL	1.2 bu/ac
U of Illinois	2.4 bu/ac
Indiana	4.3 bu/ac
Kansas	1.0 bu/ac
Minnesota	-1.7 BU/AC
North Dakota	2.1 bu/ac
Wisconsin	2.0 bu/ac
Virginia (Encompass + Inceptive)	8.3 bu/ac
Averaged Results	
Yield Increase Encompass	2.5 bu/ac
Grower ROI @$14/bu	$26/ac

Talc 80/20 + MicroSURGE

Talc 80/20
w/graphite

+

MicroSurge
Contains 2 strains of Azospirillum

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MicroSurge

Inoculant: *Azospirillum sp.*

Azospirillum sp. colonizes root surfaces and establishes symbiotic association with the plant.

Azospirillum sp. fixes nitrogen from the atmosphere into ammoniacal nitrogen that plants can utilize