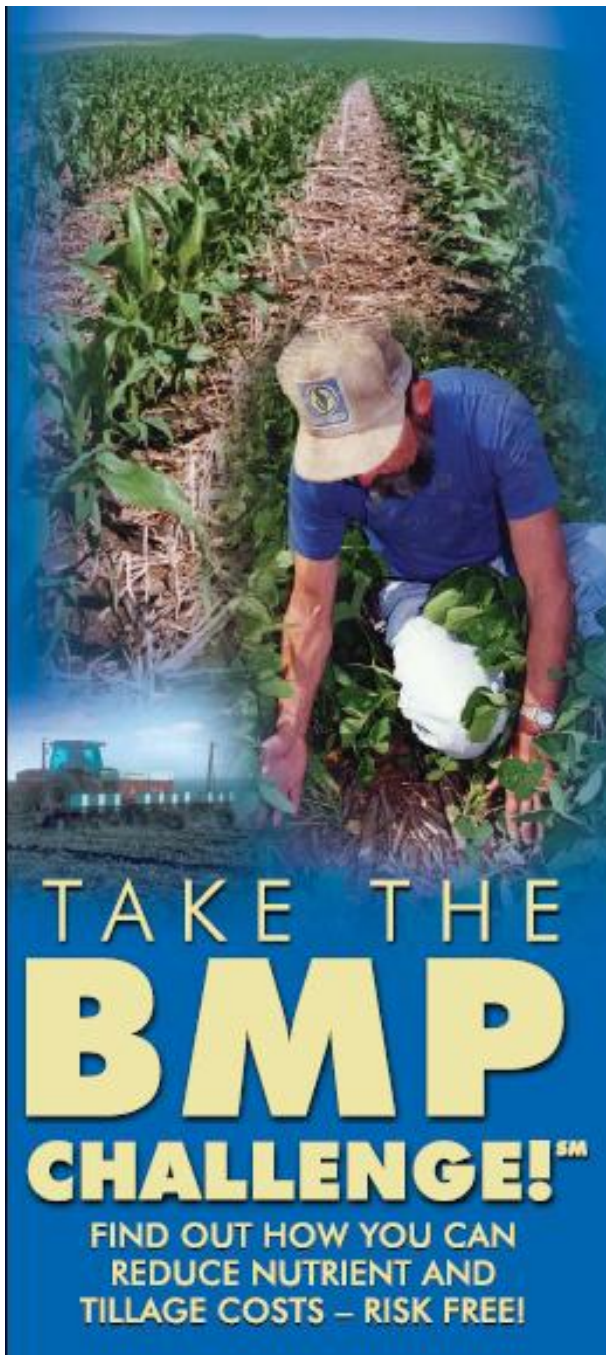


Performance Guarantees for Nitrogen/Residue Management




American Farmland Trust
SAVING THE LAND THAT SUSTAINS US



United States Department of Agriculture



Conservation Innovation Grants

NRCS CEAP STUDY (Mar/11)

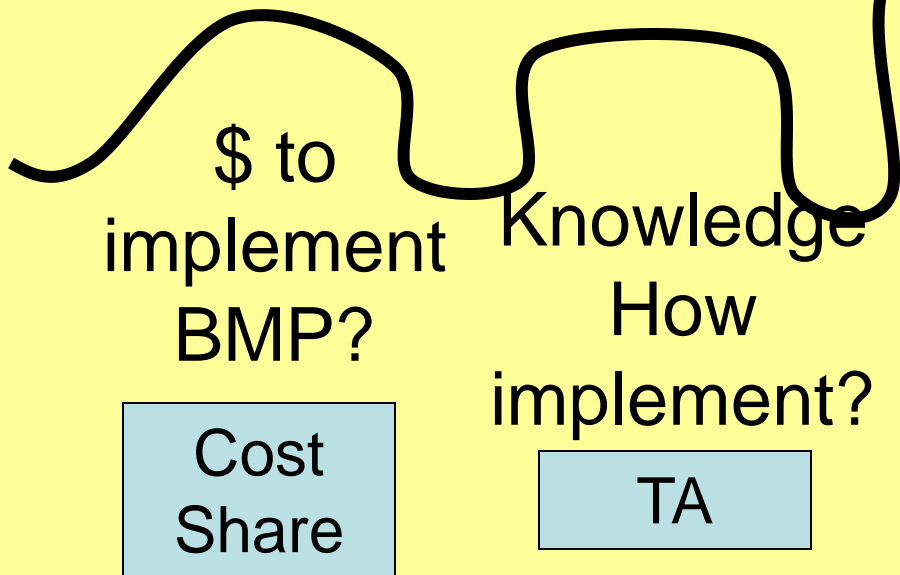
The voluntary, incentives-based conservation approach is working.

- Farmers have made good progress in reducing sediment, nutrient, and pesticide losses from farm fields through conservation practice adoption throughout the Bay region.
- Most cropland acres have structural or management practices—or both—in place to control erosion.
- Cropland protected by one or more structural practices = 50%
- Some form of reduced tillage used on 88%.

Opportunities exist to further reduce sediment and nutrient losses from cropland

Progress to date:	Already Reduced	Treat “Hi Need Ac” (most vulnerable w/ least practices = 19%)
Sediment	55%	37% additional
Nitrogen	42% surface 41% sub “	27% additional 20% additional
Phosphorus	41% soil & soluble	25% additional

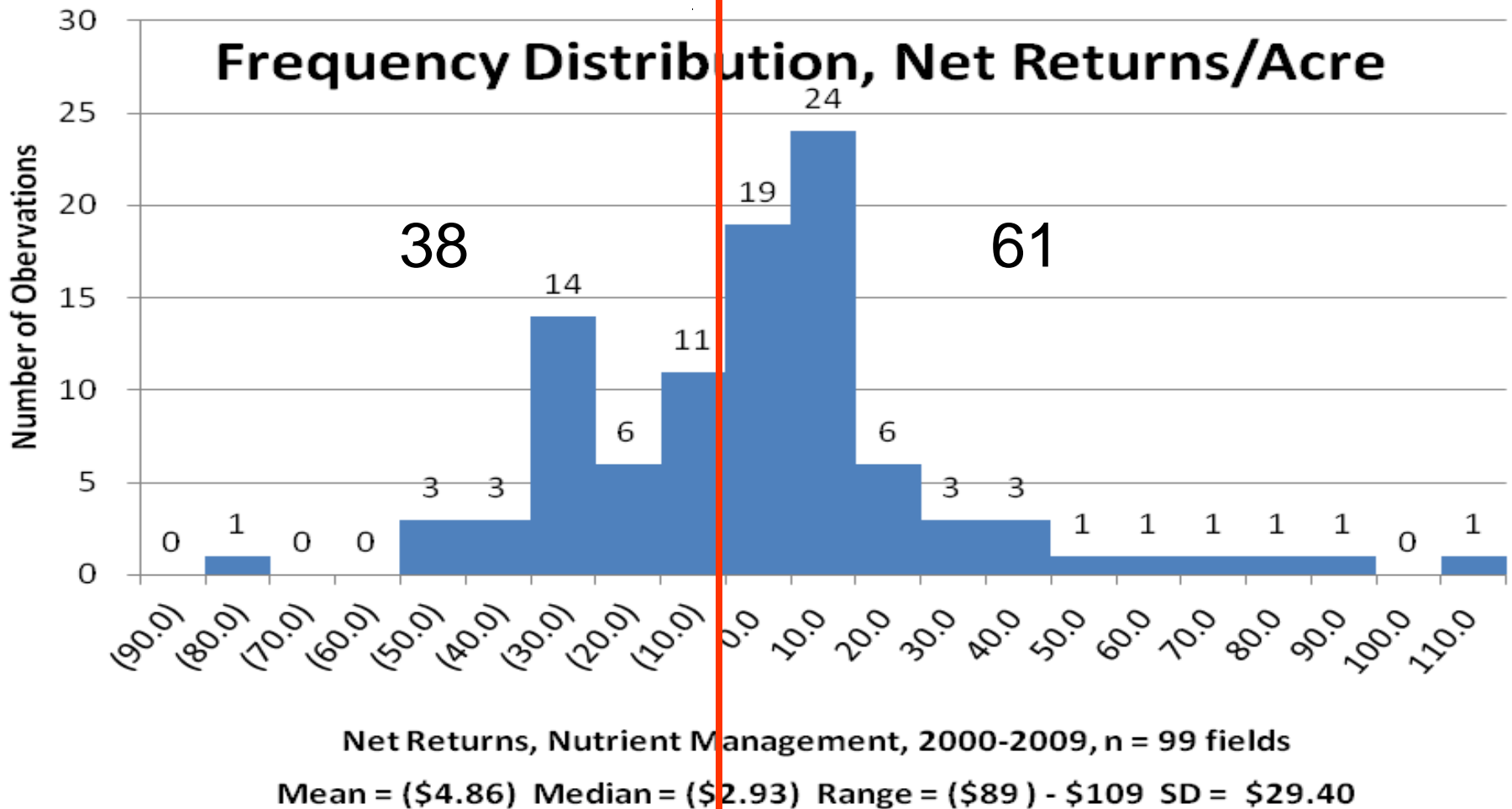
Bumps in the Road to.....



Risk of lost profit?

Net Returns Guarantee

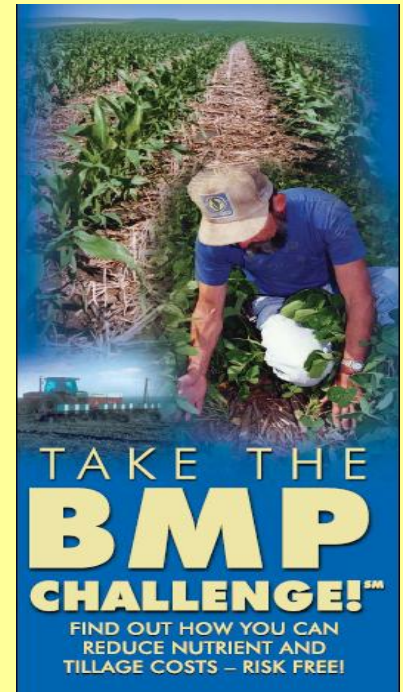
Risk is Real



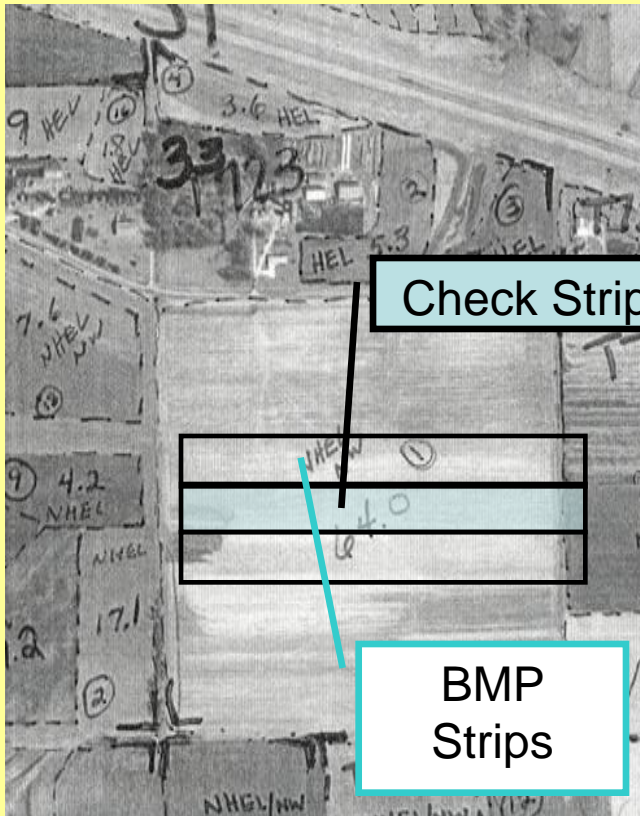


What you get

1. TA from Crop Advisor (CCA, District, Extension)



2. Compare crop responsive-ness & your NMP



Check Strip

BMP Strips

3. Peace of Mind

Conservation Adoption



$$\text{Difference in } \frac{\text{Yield X crop price}}{\text{- any savings}}$$

Compare Practices

Field



BMP Vertical Till @ reduced rate based on less volatilization

Check Strip



**Current Practice
Surface Application
Of Manure**

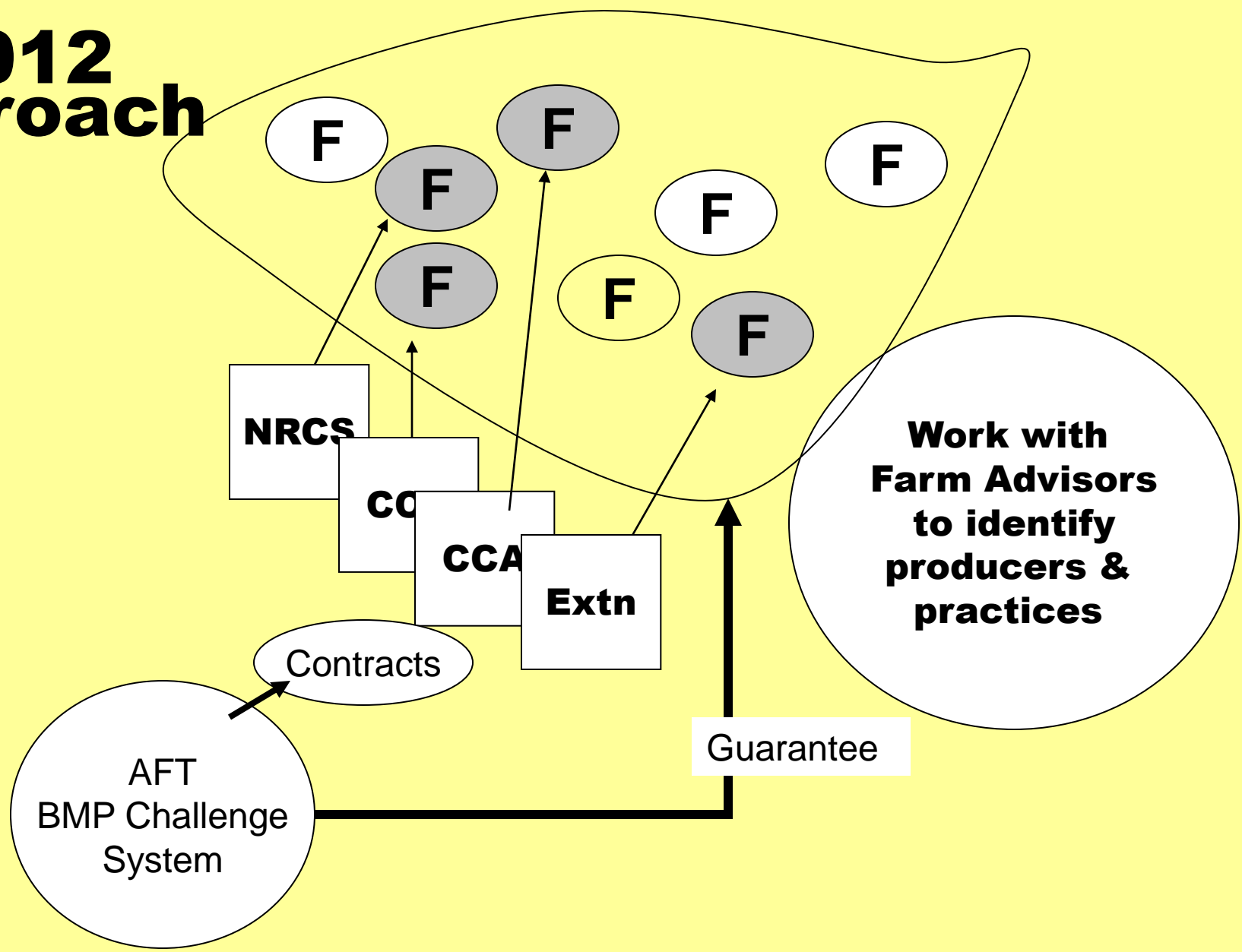
BMP Vertical Till @ reduced rate based on less volatilization

BMP Challenge 2011 Results (\$6.01 per bushel grain price)

Grower ID #	Acres	Practice Implemented	Check Strip Yield (bu/acre)	BMP Yield (bu/acre)	Check Strip N Credit (lb/ac)	BMP Strip N Credit (lb/ac)	Total N Reduction (lbs.)	Net Fertilizer Savings (lbs/acre)
174	12.5	PSNT vs Flat Rate	115.5	113.0	215.0	155.0	1800.0	42.0
20	16.7	Vert til vs surface applic	169.7	166	270	270	0	0
Total	25.0						1800	

Grower ID #	Check strip value = Yield x price (\$/acre)	BMP strip value (\$/ac)	Value Difference	Net Return (\$/ac)	Pay out Amt
174	\$694.0	\$679.3	-\$14.8	\$27.3	\$0.0
20	\$1,120	\$1,145.1	\$998	\$(28)	\$471

2012 Approach



Timing & Tasks

NOW!	<ul style="list-style-type: none">● AFT & Advisors discuss prospective participants, practices, agreement details● Advisor enrolls producers sign agreements● Producer and Advisor plan the BMP implementation & fill out Field Info Form● Check strip plots identified and plotted using protocol
April –June	<ul style="list-style-type: none">● Planting● Check strip forms completed● Final fertilizer applied and verified
August – October	<ul style="list-style-type: none">● Farmer notifies advisor of intended harvest● Producer and advisor present for the harvest and fill out Net Returns Assessment Form
November – January	<ul style="list-style-type: none">● Tabulate results● Attend winter meetings

What does it take?



Clean
Water

Viable
Farms

