NutrientNet:
A Nutrient Trading Tool for the Chesapeake Bay

Suzie Greenhalgh, Mindy Selman
& Alyssa Denzer

World Resources Institute

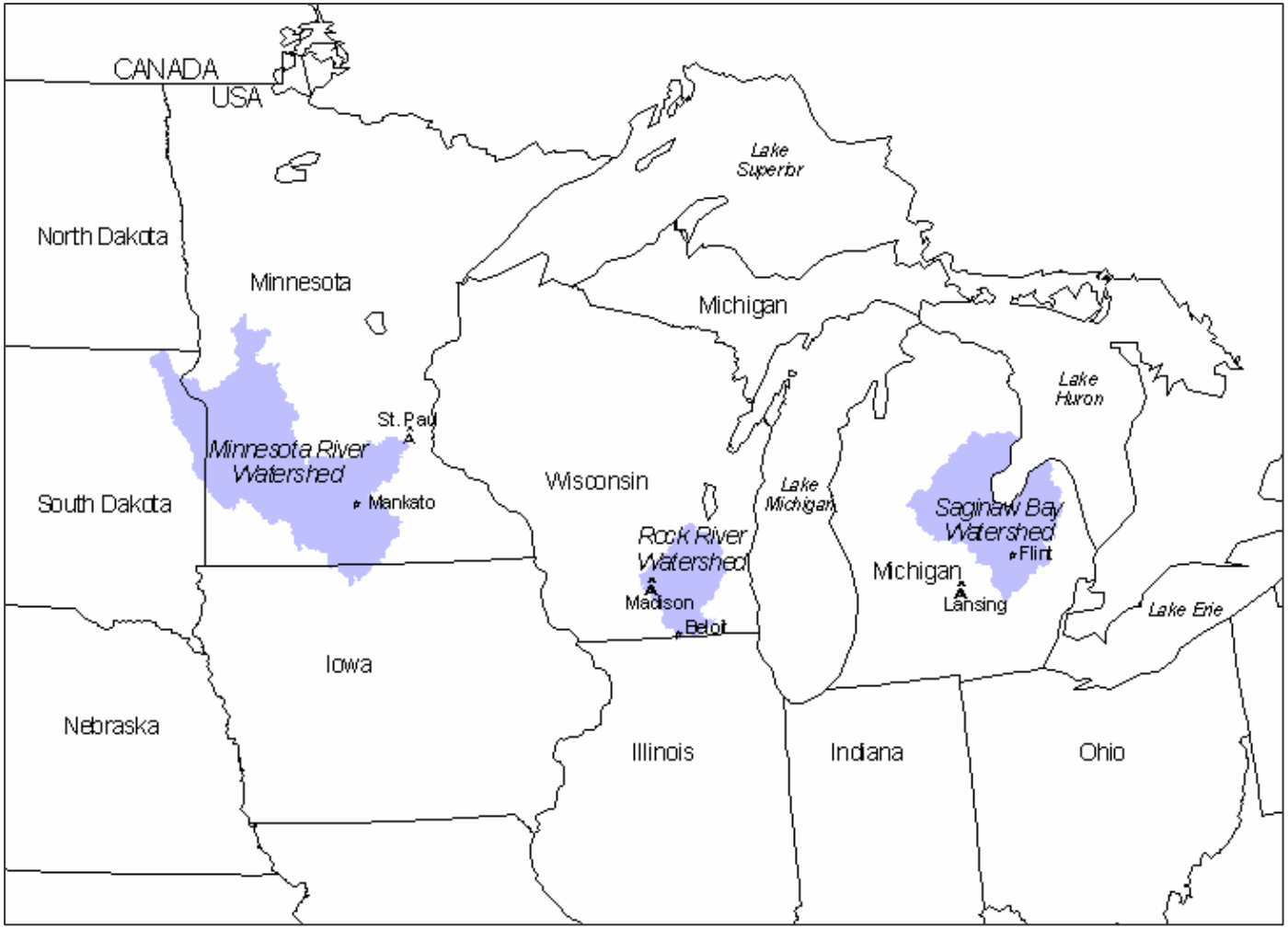
N and P Discharges

Source	Nitrogen	Phosphorus
Total non-point discharges	6,663	1,658
Total point sources	1,495	330
Total discharge (point + non-point)	8,158	2,015
Non-point as a percentage of total	82	84

Source: Carpenter et al., 1998

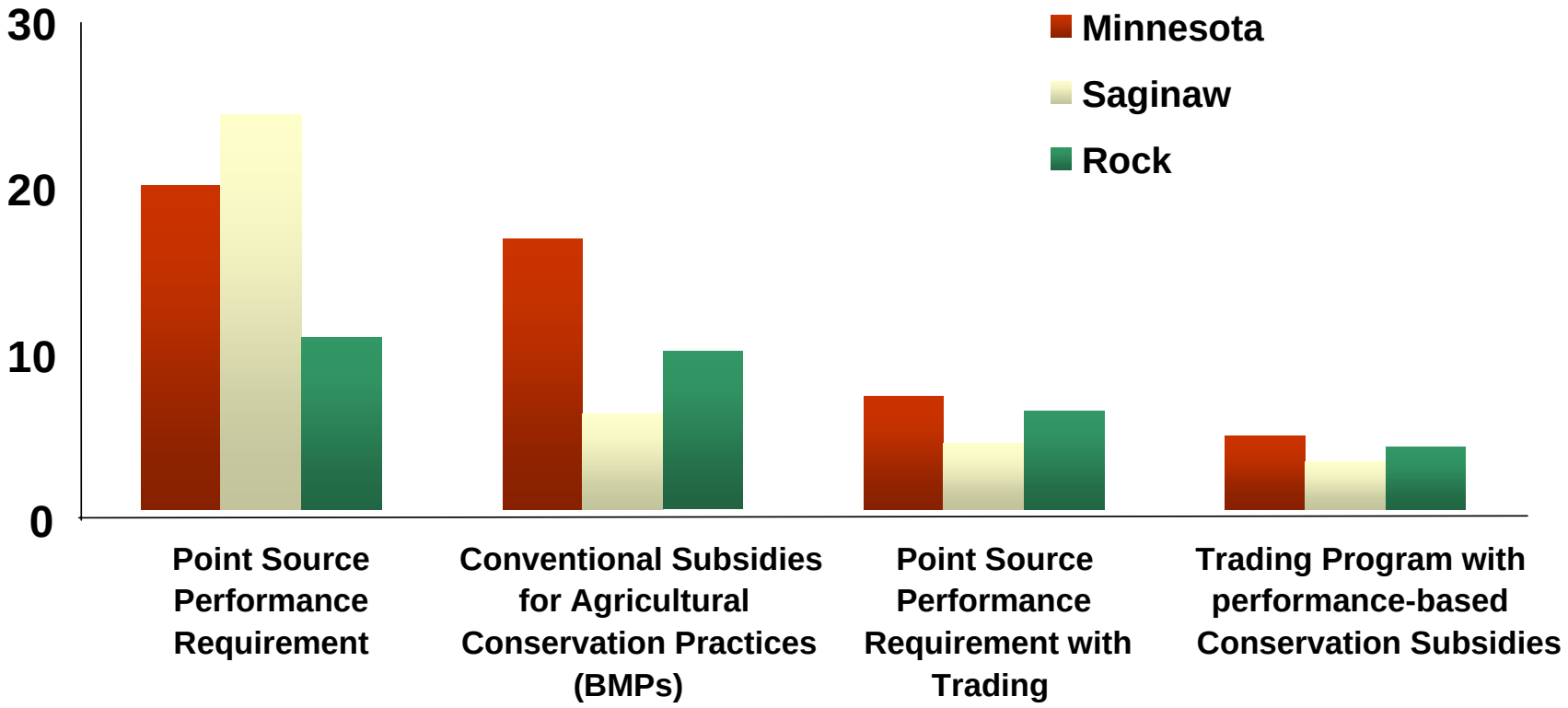
Units: '000 metric tons per year

Case Study Watersheds

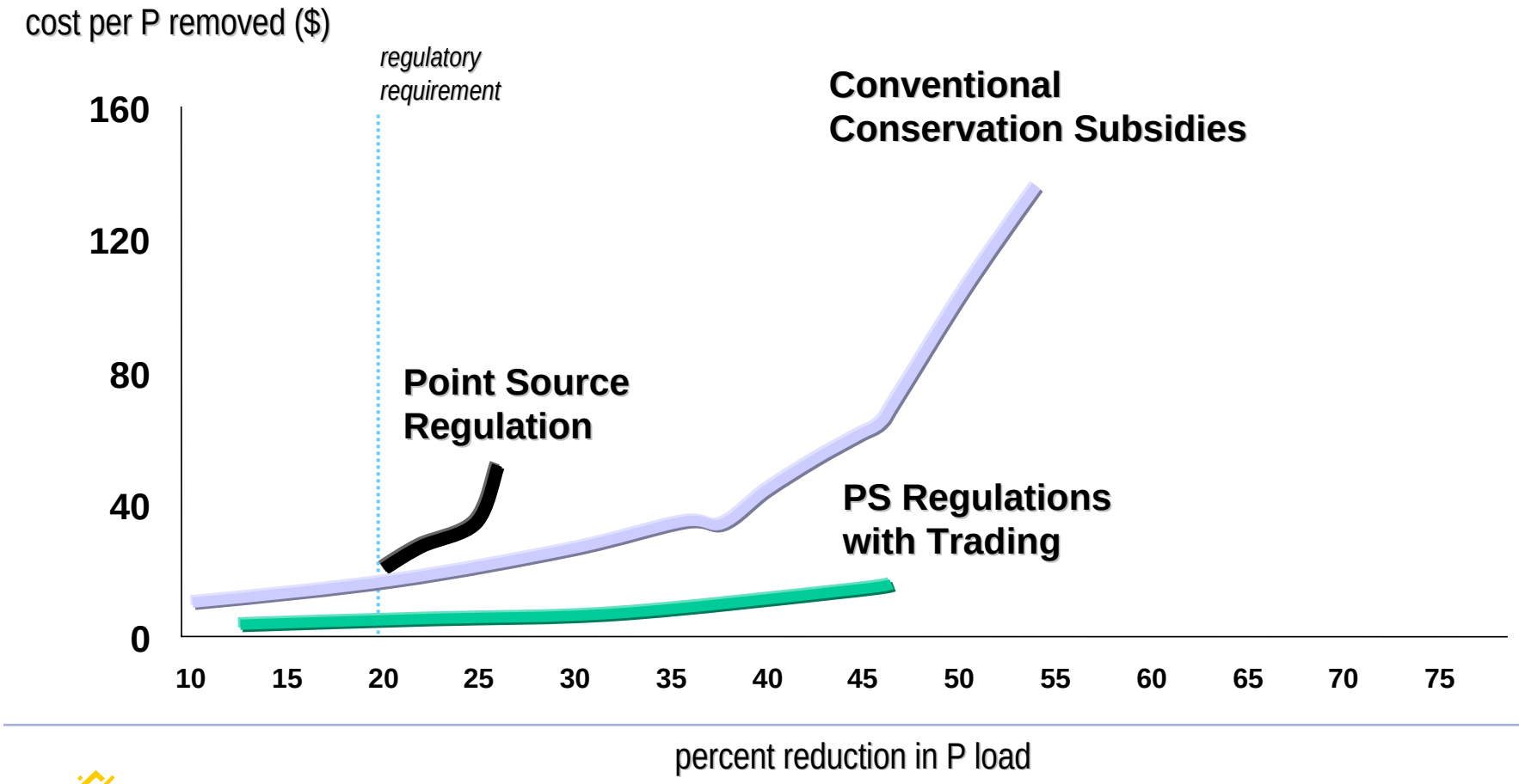


Cost for Phosphorus Control Under Different Policies

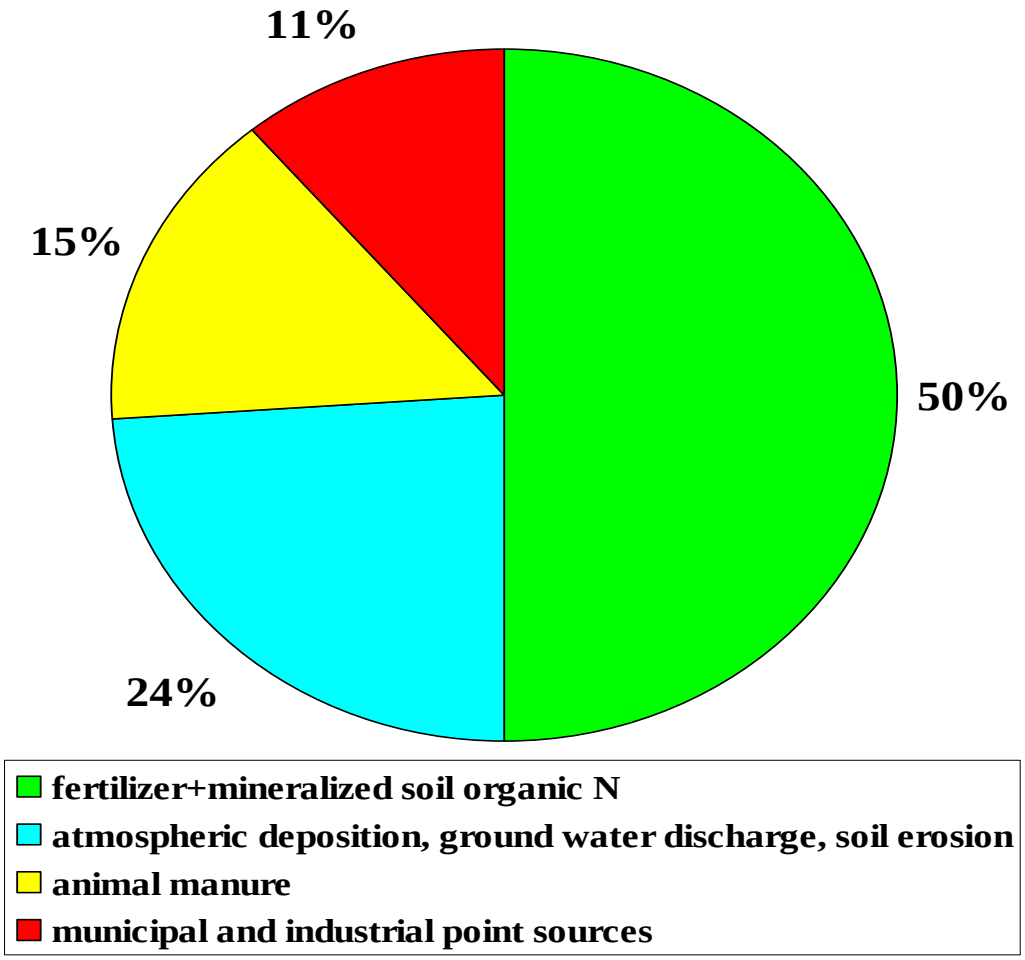
(US$ per pound of phosphorus removed)



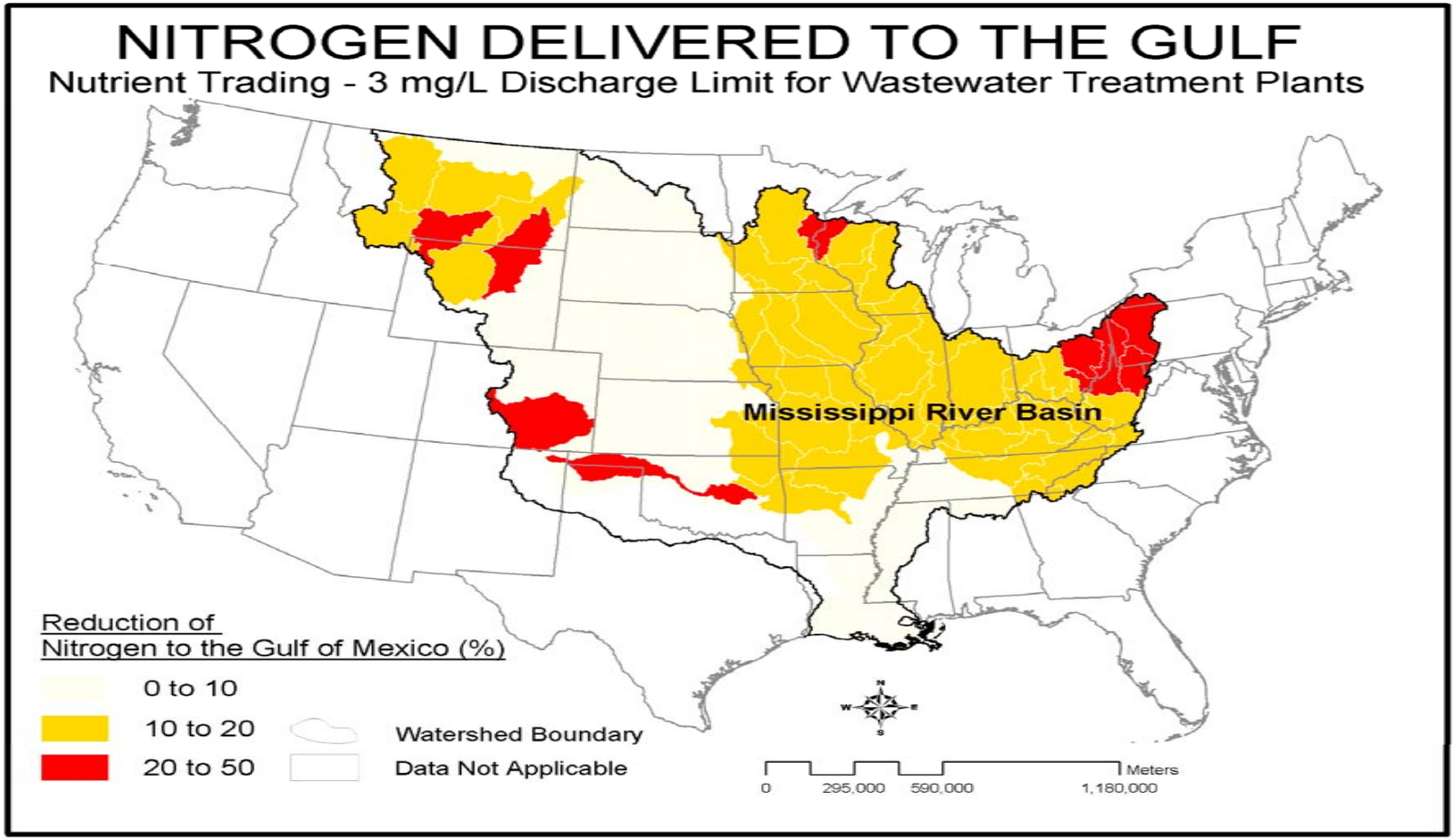
Model Solutions for Michigan



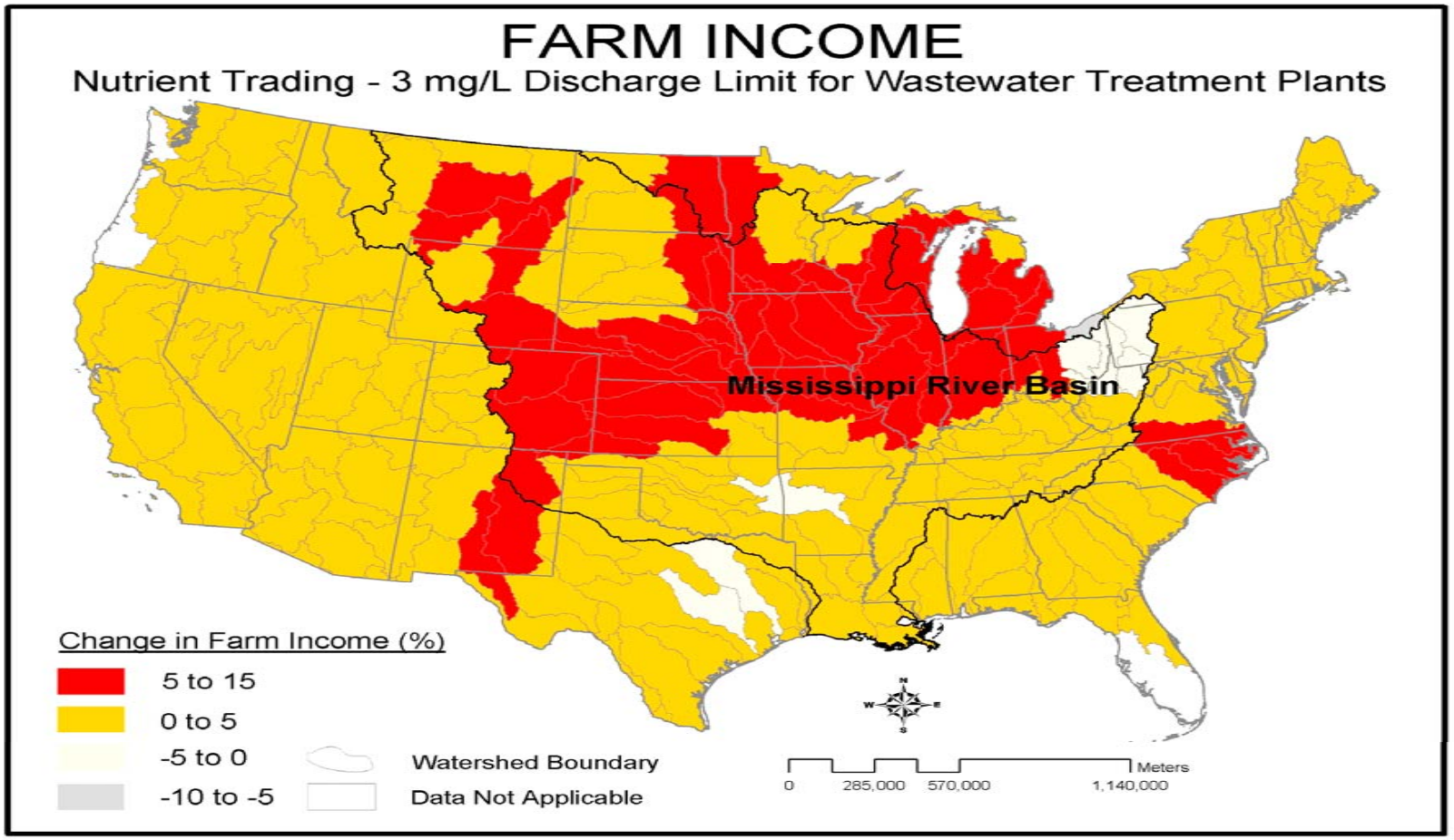
Hypoxia: Sources of N in MRB



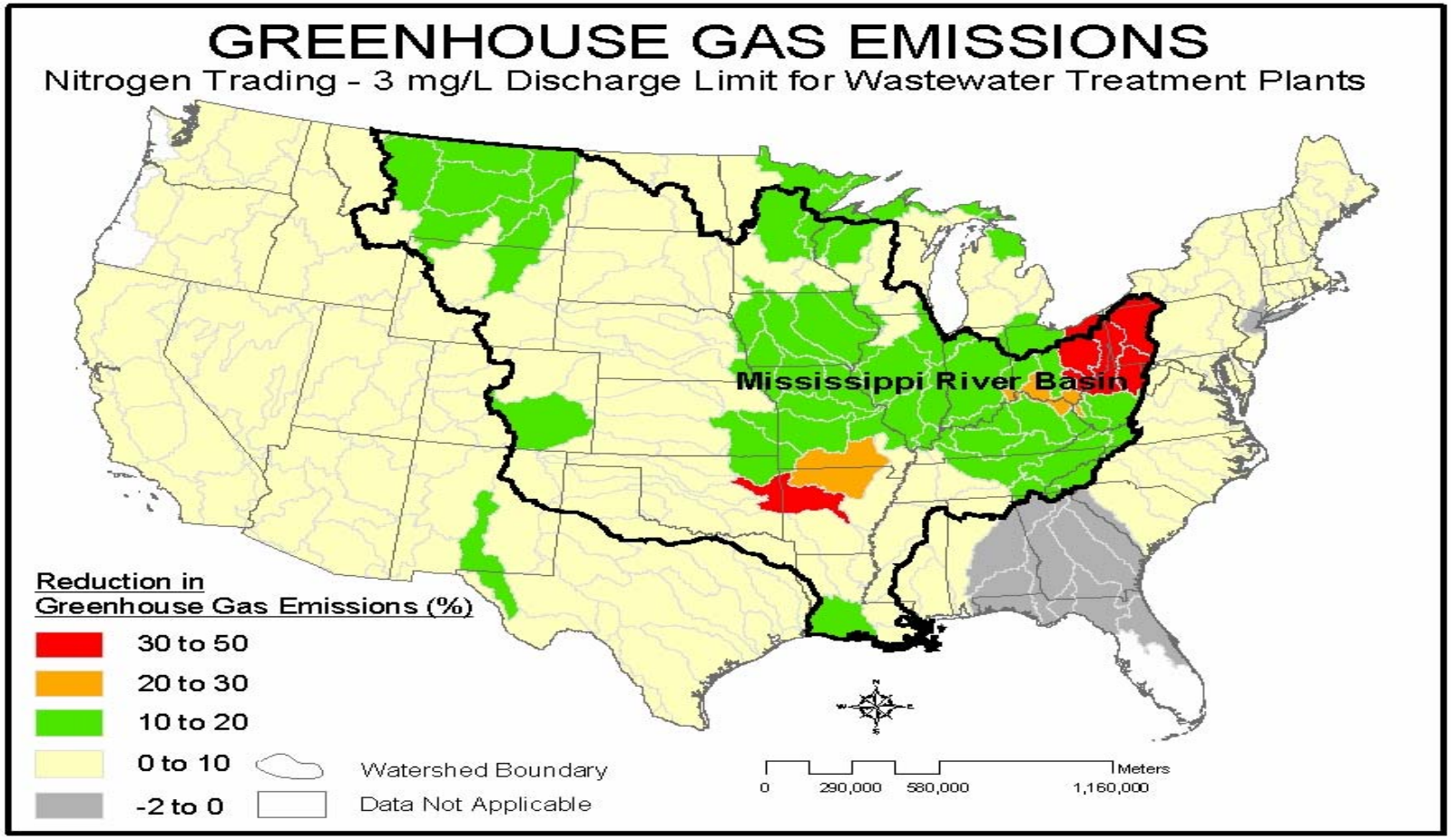
Regional Impacts



Regional Impacts



Regional Impacts



Nutrient Trading

Two basic steps:

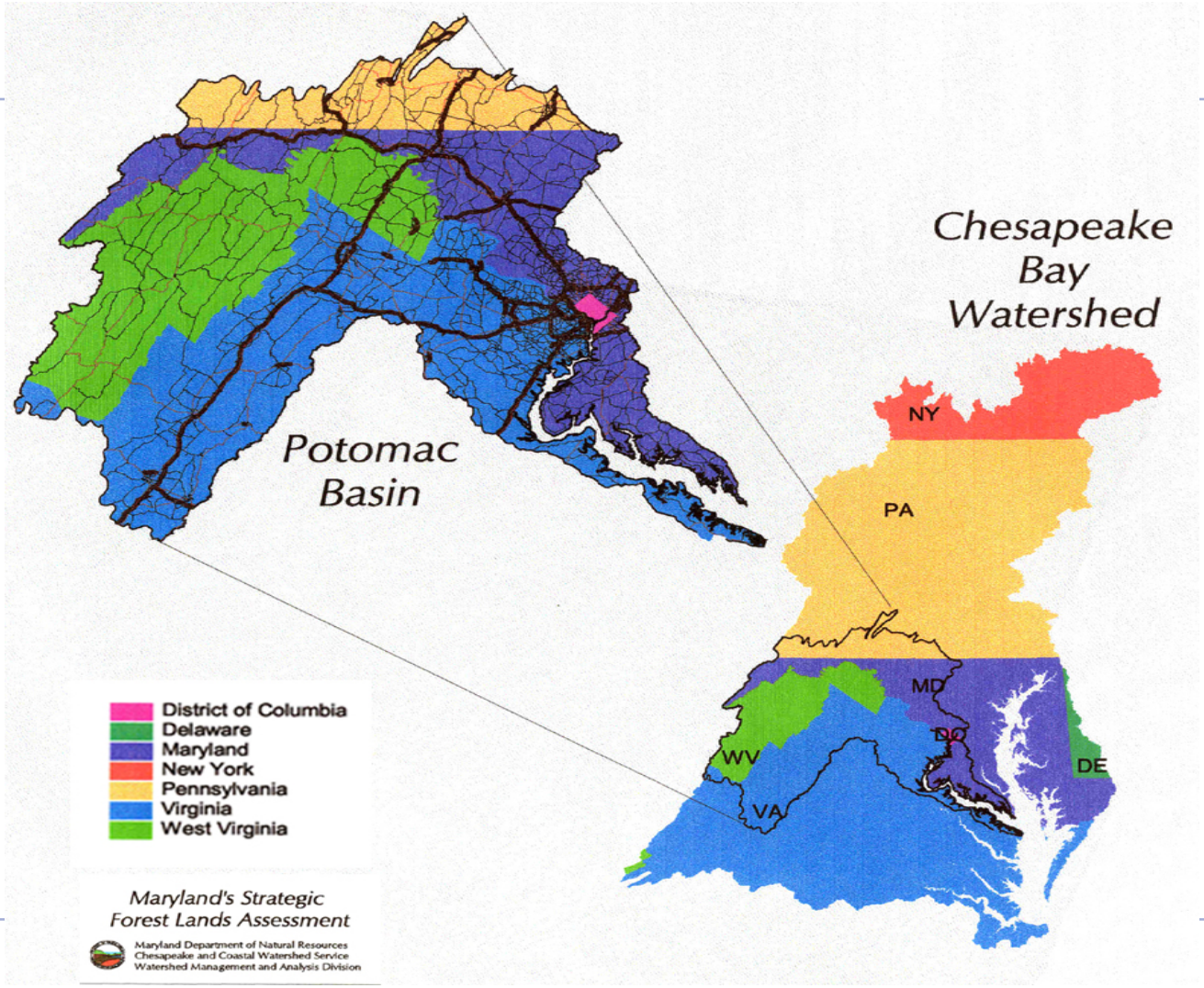
- Setting a goal for the total amount of nutrients that enter surface waters
- Allowing sources with low-cost mitigation options to reduce beyond the required amount and sell excess reductions

Advantages of *NutrientNet*

***NutrientNet* was created to build a nutrient trading market place which:**

- Provides standardized calculation of reductions;
- Provides estimates of cost and effectiveness of potential trades;
- Allows potential market participants to identify each other;
- Provides a central place to list volumes and types of trades.

NutrientNet in the Chesapeake Bay



NutrientNet in the Chesapeake Bay

Estimation tool based on location:

- Using data from the Chesapeake Bay Watershed model, *NutrientNet* links the user-specified field location with segment data
- Linked data includes
  - Edge of Stream coefficient
  - Delivery Factor
  - Deposition
  - BMP efficiency

NutrientNet in the Chesapeake Bay

Baseline estimation for non-point sources:

- Calculations based on CBWM and Nutrient Management Yardstick
- Baseline loading is equal to the total nitrogen inputs less the nitrogen that is removed through plant uptake and volatilization.

Nitrogen In	Nitrogen Out
Fertilizer Deposition Irrigation Excreted Manure Fixation	Plant Uptake Volatilization

NutrientNet in the Chesapeake Bay

Load reductions:

The baseline loading can be reduced by implementing one of the available BMP options:

- Cover crop
- Land conversion
- Conservation Tillage
- Filter strip
- Stream protection w/ fencing
- Stream protection w/o fencing
- Roof runoff control
- Manure management system

NutrientNet in the Chesapeake Bay

Baseline and reduction estimates for point sources

- Baseline loadings based on actual data from MDE and CBP
- Baseline loading depends on location in watershed
- Point Sources have three upgrade options to reduce their current load:
  - 8 mg/l
  - 5 mg/l
  - 3 mg/l

NutrientNet in the Chesapeake Bay

Tradable credits

- Baseline loading – Mitigation = Reductions
- Conversion of reductions to credits depends on the rules of the program, e.g.:
  - *Trading ratio*
  - *Cost share*

NutrientNet in the Chesapeake Bay

Price of credits

- For non-point sources, NN estimates cost of BMP: the minimum price at which to sell generated credits
- For point sources, NN estimates cost per credit for upgrade
- Credit supply and demand will decide at which price the buyers and sellers will meet

Walkthrough of *NutrientNet*

The next slides will take you through

NutrientNet

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http://www.nutrientnet.org

Go

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UTRIENT
ET reducing watershed nutrient runoff

/ELCOME to NutrientNet - first on-line
arket for improving water quality
rough nutrient trading

project of the World Resources Institute

My NutrientNet

User name:

Password:

Login Sign-up

» About NutrientNet

- Introduction
- FAQs
- References
- Contacts

» Markets

- Nutrient trading
- Potomac river / market
- Kalamazoo river / market

» Support

- Getting started
- Glossary
- Forgot password?

Get started in 5 easy steps: (why sign up?)

ADD POINT SOURCE OR FARMING FIELD

0 SIGN UP — 1 FIND LOCATION — 2 ENTER SITE DETAILS — 3 SELECT MITIGATIONS — 4 TRADE CREDITS

» What is NutrientNet? Quick guide:

- Water quality & current problems
- Nutrient run-off sources
- Existing policies & regulations
- NutrientNet approach

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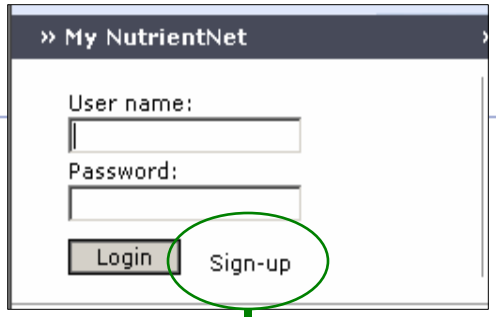
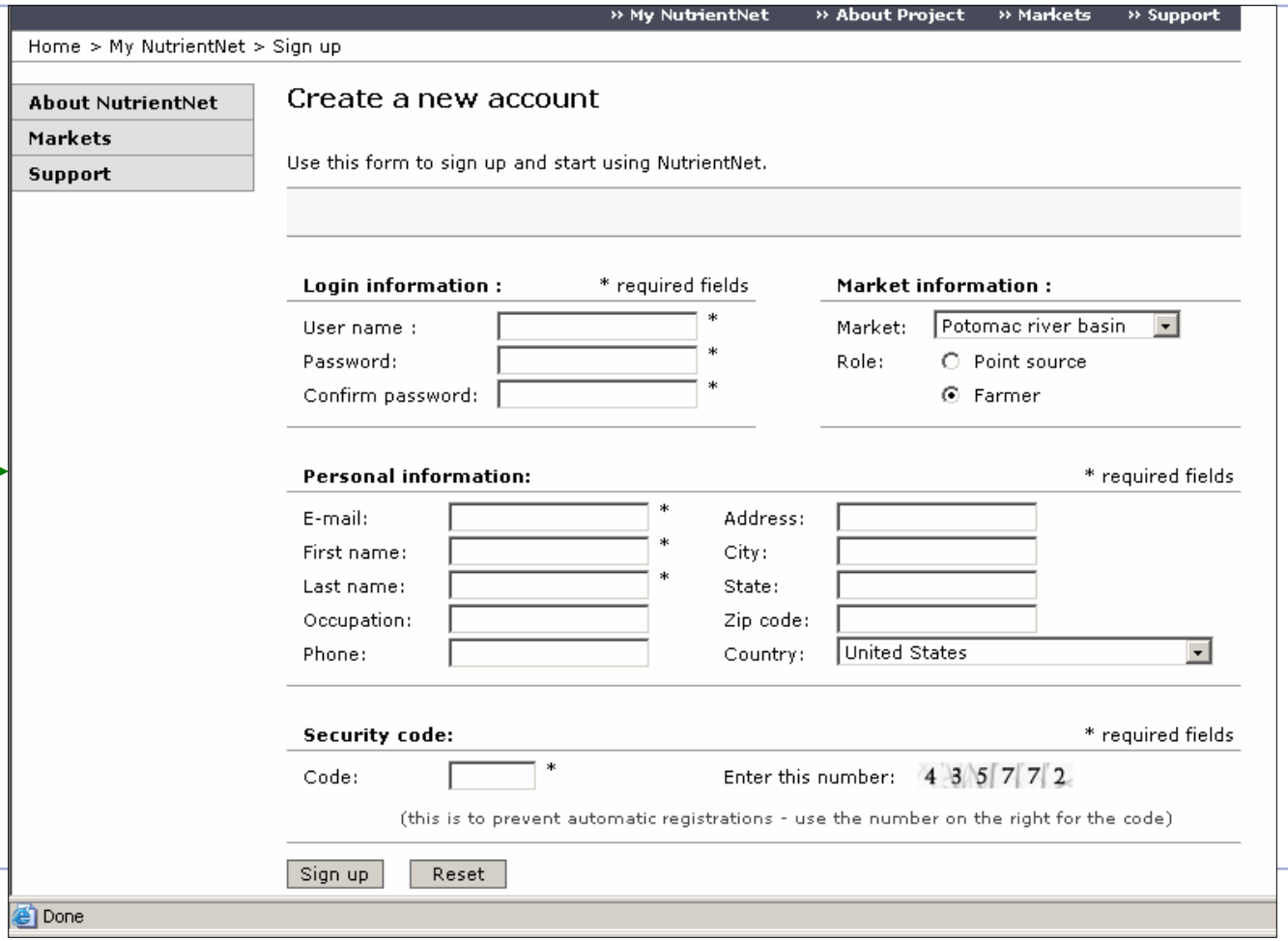
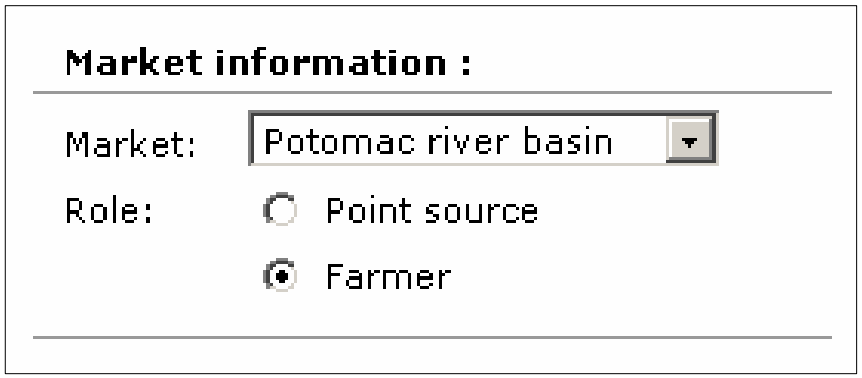
Signing Up for *NutrientNet*

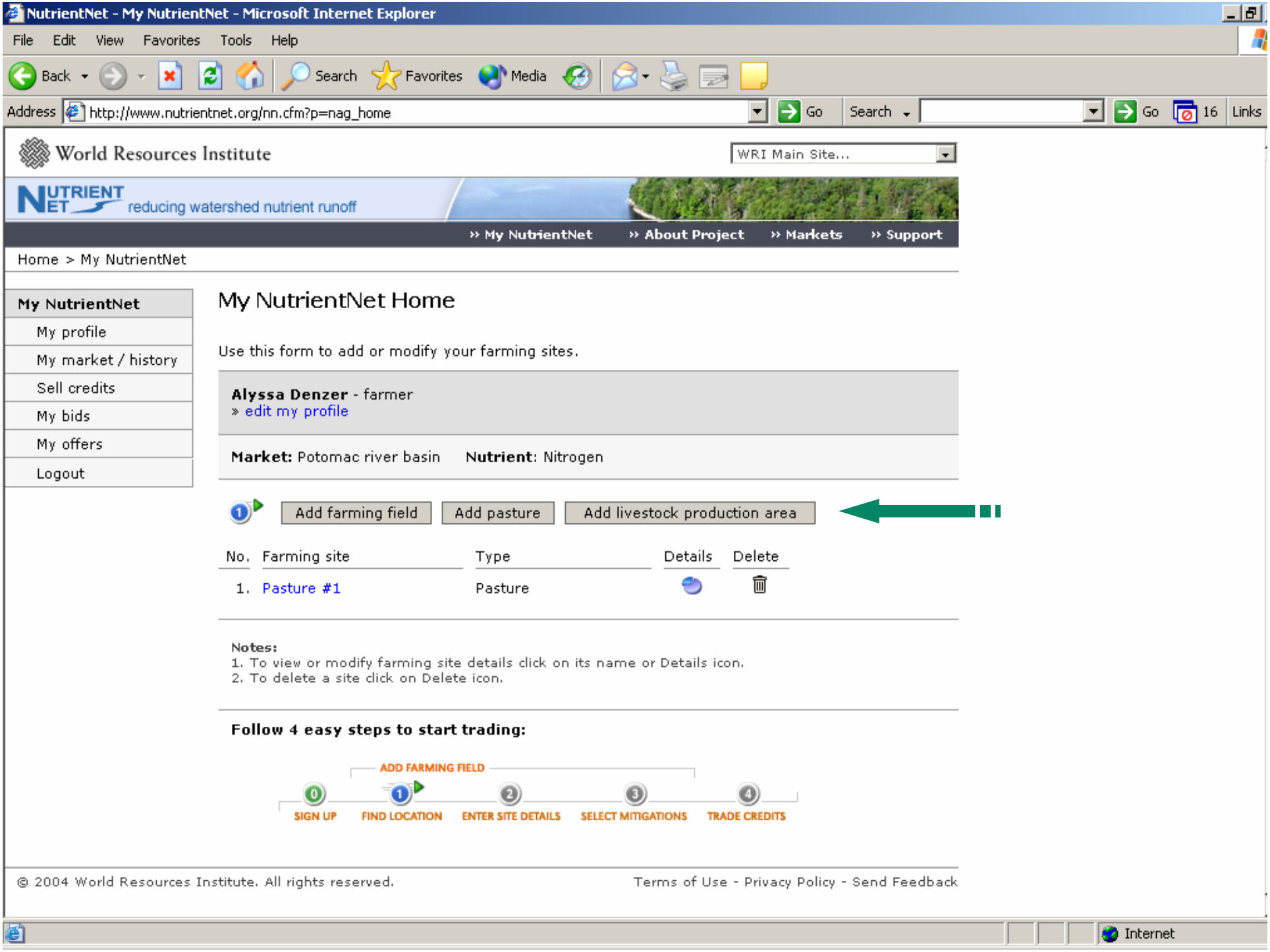




NutrientNet as a Farmer

First we will review *NutrientNet* from a Farmer's perspective:

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Home > My NutrientNet
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My market / history
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My NutrientNet Home
Use this form to add or modify your farming sites.
Alyssa Denzer - farmer
» edit my profile
Market: Potomac river basin Nutrient: Nitrogen
Add farming field
Add pasture
Add livestock production area
No. Farming site Type Details Delete
1. Pasture #1 Pasture
Notes:
1. To view or modify farming site details click on its name or Details icon.
2. To delete a site click on Delete icon.
Follow 4 easy steps to start trading:
ADD FARMING FIELD
0 SIGN UP
1 FIND LOCATION
2 ENTER SITE DETAILS
3 SELECT MITIGATIONS
4 TRADE CREDITS
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Selected Best Management Practices

Summary | Location | Field details

Zoom to a ZIP Code Area

Reference Map Aerial Photos

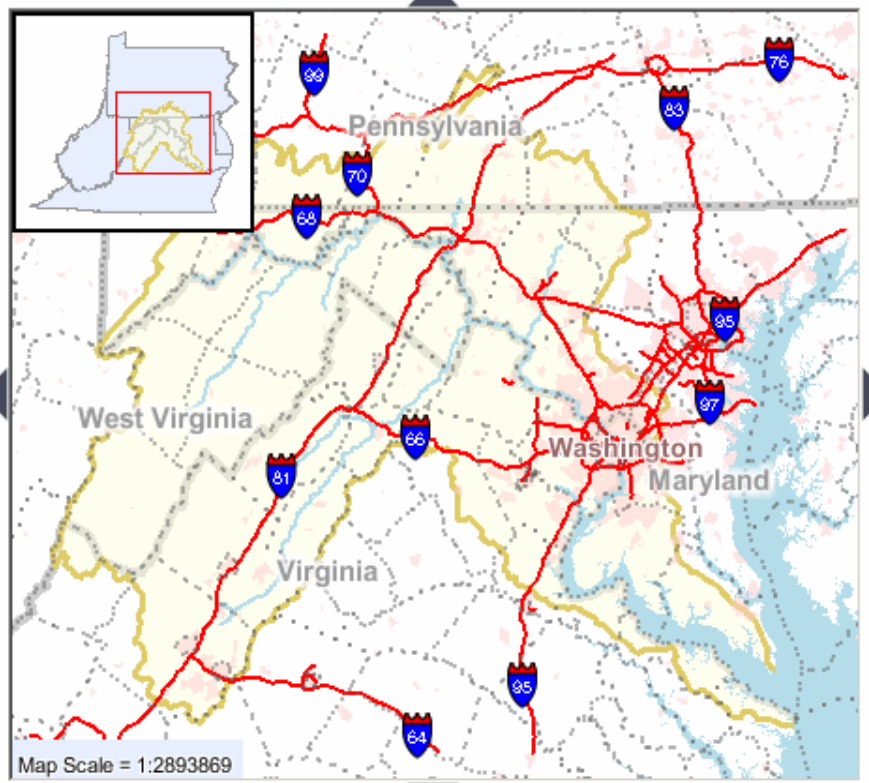
Help

Use the map tools or ZIP code list to find your area.

Farm Field Tools

Click the start button below to draw a new farm field boundary. Once the field is defined, click the submit button to proceed.

start
submit



STEPS:

1. Zoom in

Click on the map to zoom in to your location area, or select a zip code from the scroll down menu.

2. Define your field

After zooming in, press the start button, and click the boundary corners of your field. If you make a mistake or want to start drawing again, just press the start button again.

3. Save location

Once done click Submit button to continue.

You may also...

- Switch between Aerial photos and Reference map modes by selecting appropriate radio box (in upper right coner).
- Click on Zoom out icon to zoom out one level.

Map: 82394.29 , 157220.92 -- Image: 323 , 1 -- ScaleFactor: 765.6696230598669

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Summary | Location | Field details

17252 (PA)

Reference Map Aerial Photos

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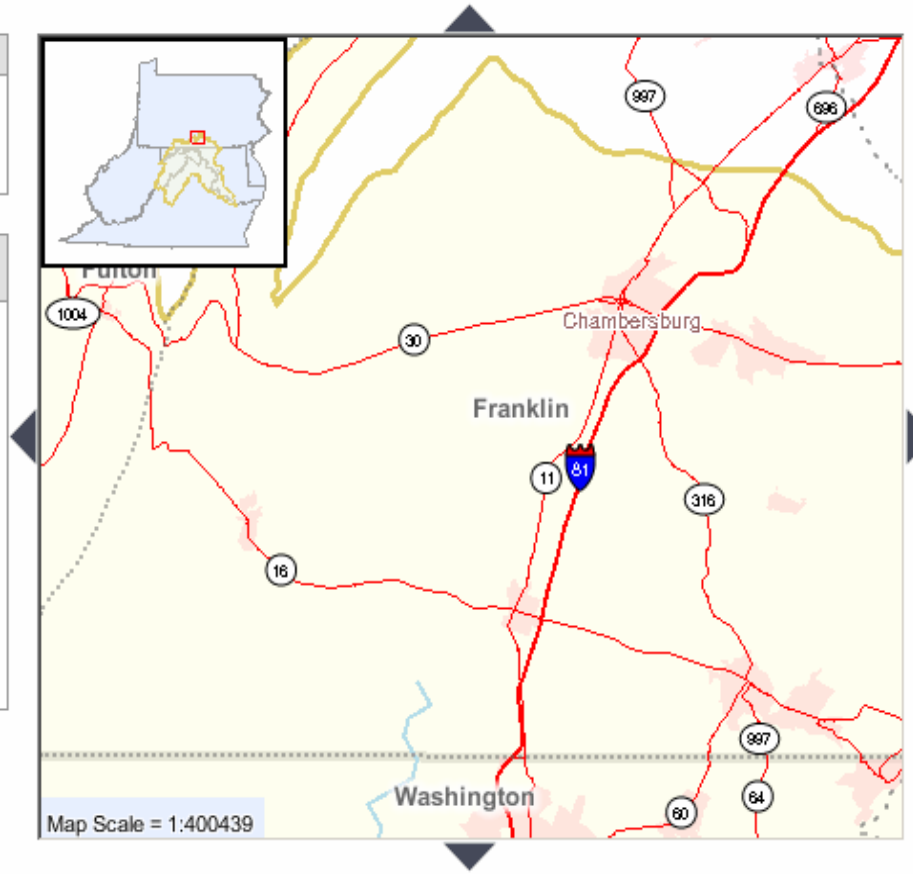

location area, or select a zip code from the scroll down menu.

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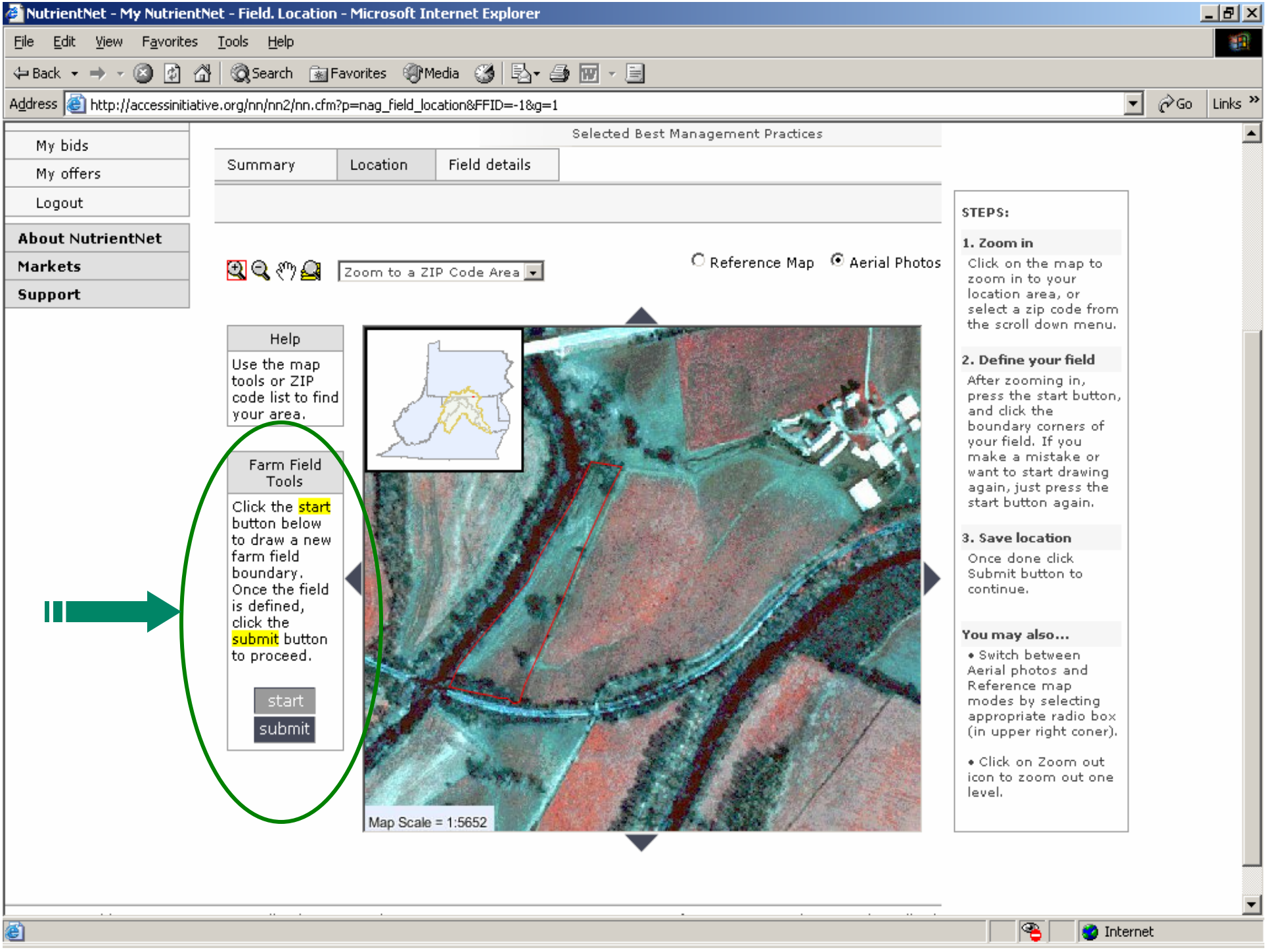
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About NutrientNet
Markets
Support
Selected Best Management Practices
Summary
Location
Field details
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Aerial Photos
Help
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Farm Field Tools
Click the start button below to draw a new farm field boundary. Once the field is defined, click the submit button to proceed.
start
submit
Map Scale = 1:5652
STEPS:
1. Zoom in
Click on the map to zoom in to your location area, or select a zip code from the scroll down menu.
2. Define your field
After zooming in, press the start button, and click the boundary corners of your field. If you make a mistake or want to start drawing again, just press the start button again.
3. Save location
Once done click Submit button to continue.
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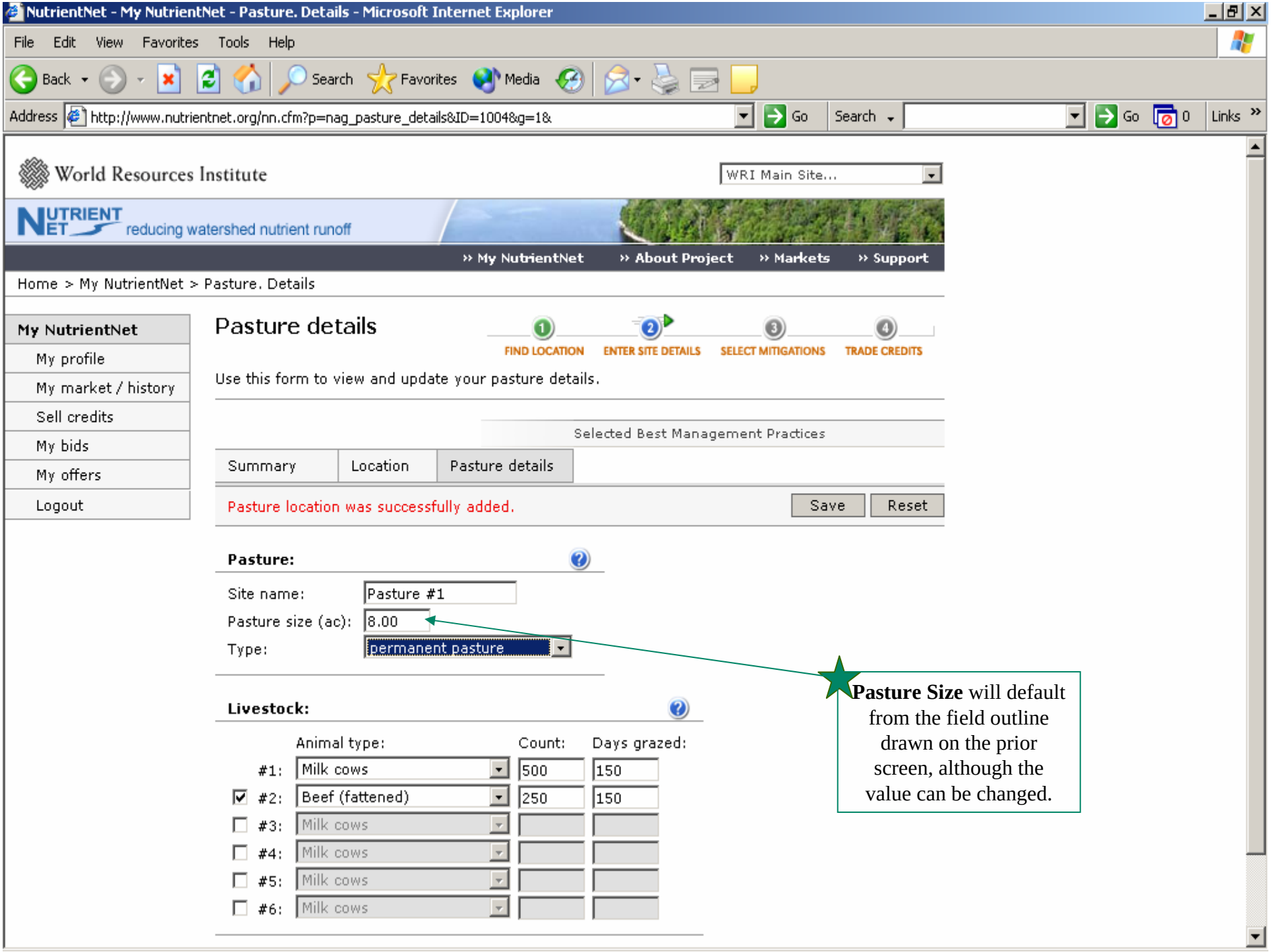
Internet


NutrientNet - My NutrientNet - Pasture. Details - Microsoft Internet Explorer
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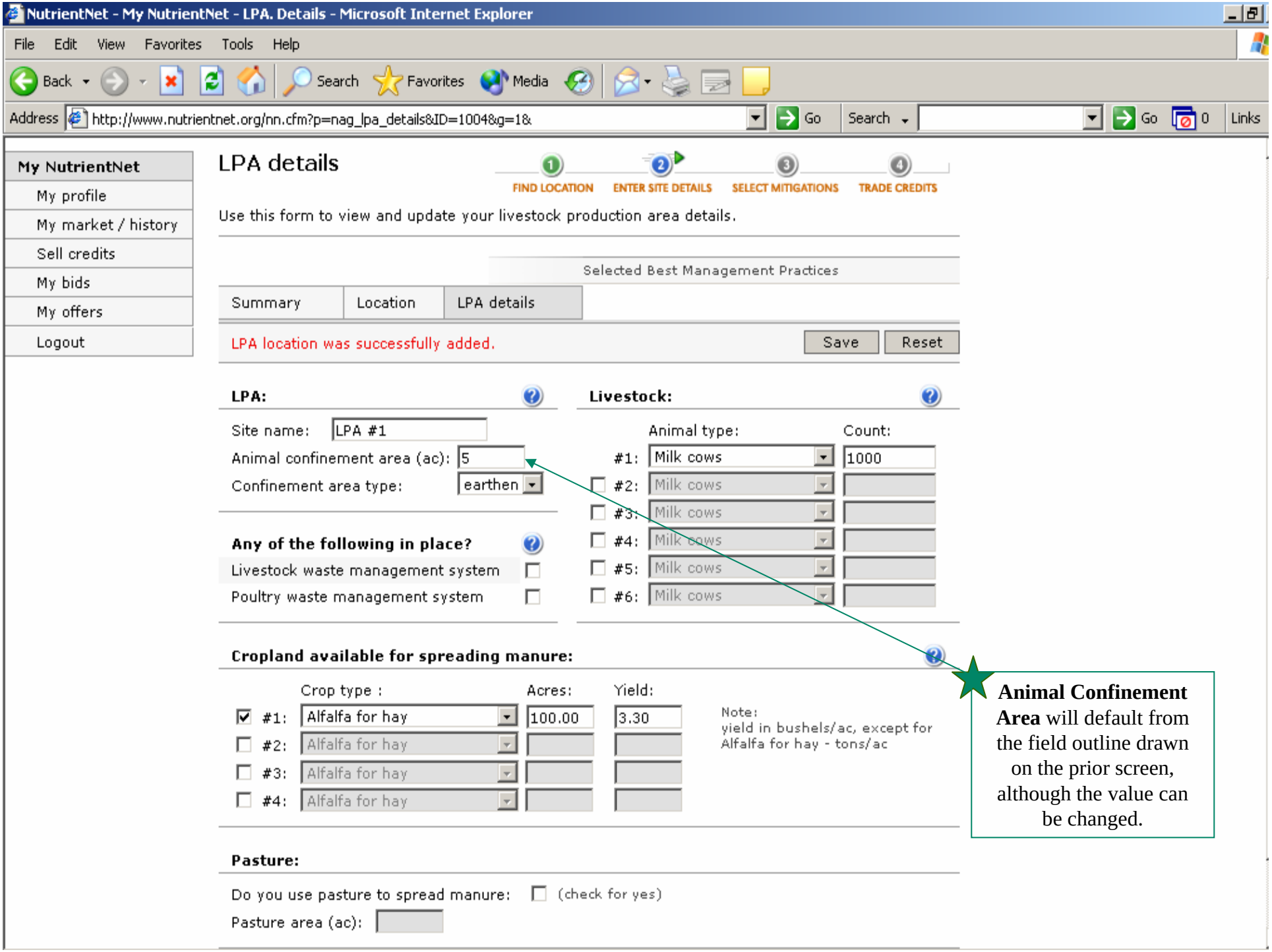
Pasture details
1 FIND LOCATION
2 ENTER SITE DETAILS
3 SELECT MITIGATIONS
4 TRADE CREDITS
Use this form to view and update your pasture details.
Selected Best Management Practices
Summary
Location
Pasture details
Pasture location was successfully added.
Save
Reset
Pasture:
Site name: Pasture #1
Pasture size (ac): 8.00
Type: permanent pasture
Livestock:
Animal type:
Count:
Days grazed:
#1: Milk cows 500 150
#2: Beef (fattened) 250 150
#3: Milk cows
#4: Milk cows
#5: Milk cows
#6: Milk cows
Pasture Size will default from the field outline drawn on the prior screen, although the value can be changed.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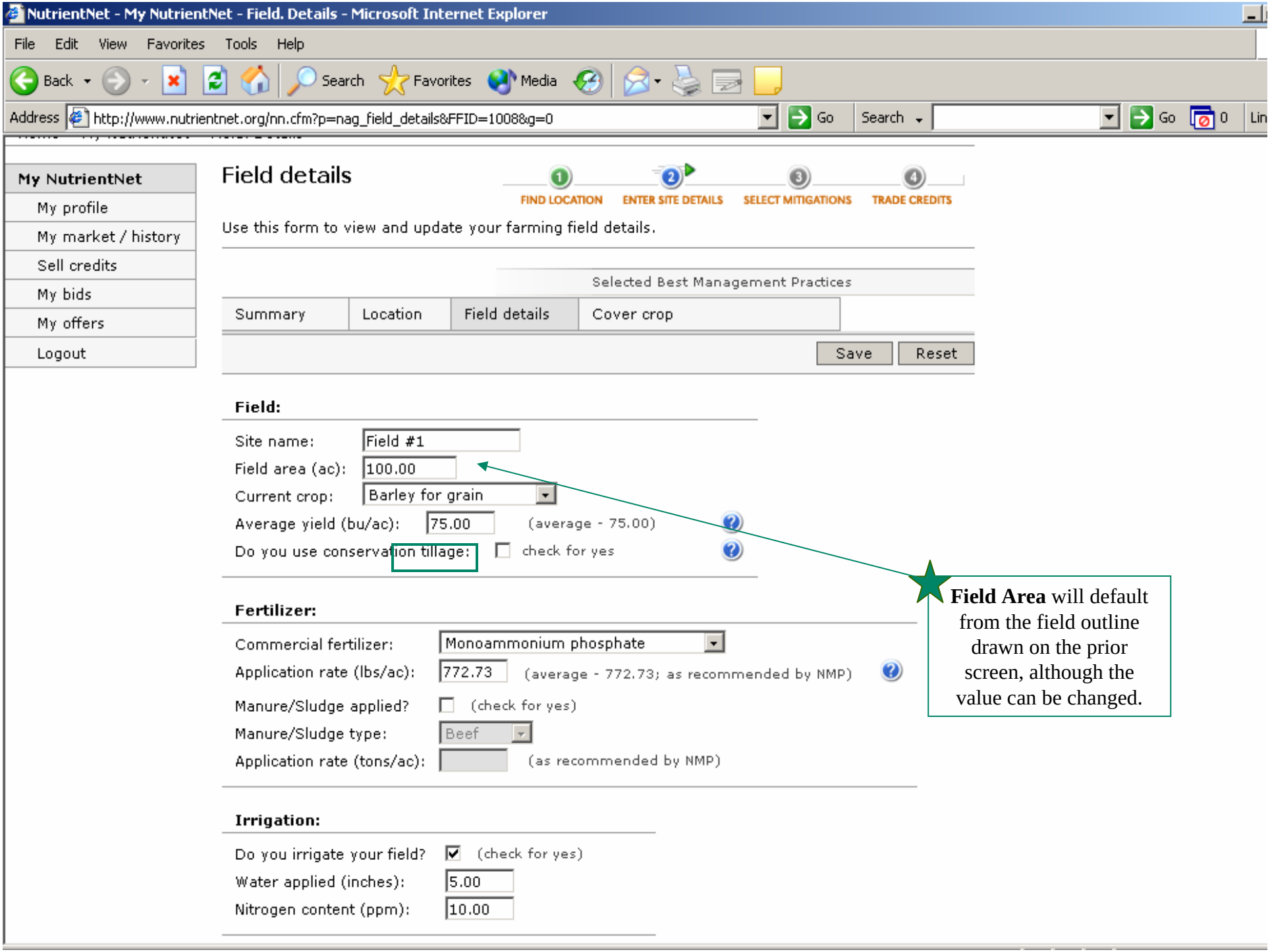
LPA details
1 FIND LOCATION
2 ENTER SITE DETAILS
3 SELECT MITIGATIONS
4 TRADE CREDITS
Use this form to view and update your livestock production area details.
Selected Best Management Practices
Summary
Location
LPA details
LPA location was successfully added.
Save
Reset
LPA:
Site name: LPA #1
Animal confinement area (ac): 5
Confinement area type: earthen
Any of the following in place?
Livestock waste management system
Poultry waste management system
Livestock:
Animal type:
Count:
#1: Milk cows 1000
#2: Milk cows
#3: Milk cows
#4: Milk cows
#5: Milk cows
#6: Milk cows
Cropland available for spreading manure:
Crop type :
Acres:
Yield:
#1: Alfalfa for hay 100.00 3.30
#2: Alfalfa for hay
#3: Alfalfa for hay
#4: Alfalfa for hay
Note:
yield in bushels/ac, except for
Alfalfa for hay - tons/ac
Pasture:
Do you use pasture to spread manure: (check for yes)
Pasture area (ac):
Animal Confinement Area will default from the field outline drawn on the prior screen, although the value can be changed.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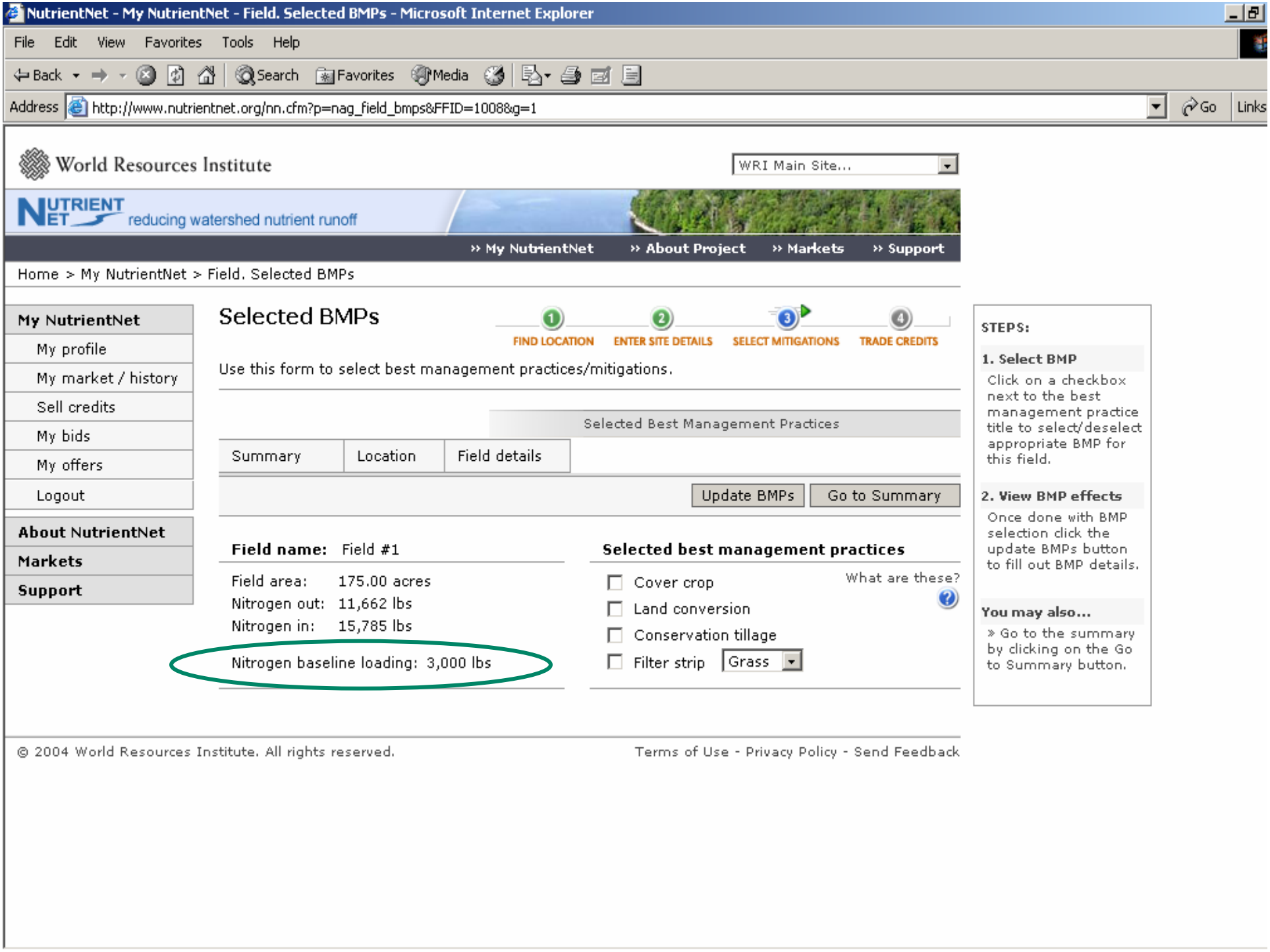
Field details
1 FIND LOCATION
2 ENTER SITE DETAILS
3 SELECT MITIGATIONS
4 TRADE CREDITS
Use this form to view and update your farming field details.
Selected Best Management Practices
Summary
Location
Field details
Cover crop
Save
Reset
Field:
Site name: Field #1
Field area (ac): 100.00
Current crop: Barley for grain
Average yield (bu/ac): 75.00 (average - 75.00)
Do you use conservation tillage: check for yes
Fertilizer:
Commercial fertilizer: Monoammonium phosphate
Application rate (lbs/ac): 772.73 (average - 772.73; as recommended by NMP)
Manure/Sludge applied? (check for yes)
Manure/Sludge type: Beef
Application rate (tons/ac): (as recommended by NMP)
Irrigation:
Do you irrigate your field? (check for yes)
Water applied (inches): 5.00
Nitrogen content (ppm): 10.00
Field Area will default from the field outline drawn on the prior screen, although the value can be changed.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My bids
My offers
Logout
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Markets
Support
Selected BMPs
1 FIND LOCATION
2 ENTER SITE DETAILS
3 SELECT MITIGATIONS
4 TRADE CREDITS
Use this form to select best management practices/mitigations.
Selected Best Management Practices
Summary
Location
Field details
Update BMPs
Go to Summary
Field name: Field #1
Field area: 175.00 acres
Nitrogen out: 11,662 lbs
Nitrogen in: 15,785 lbs
Nitrogen baseline loading: 3,000 lbs
Selected best management practices
What are these?
Cover crop
Land conversion
Conservation tillage
Filter strip
Grass
STEPS:
1. Select BMP
Click on a checkbox next to the best management practice title to select/deselect appropriate BMP for this field.
2. View BMP effects
Once done with BMP selection click the update BMPs button to fill out BMP details.
You may also...
» Go to the summary by clicking on the Go to Summary button.
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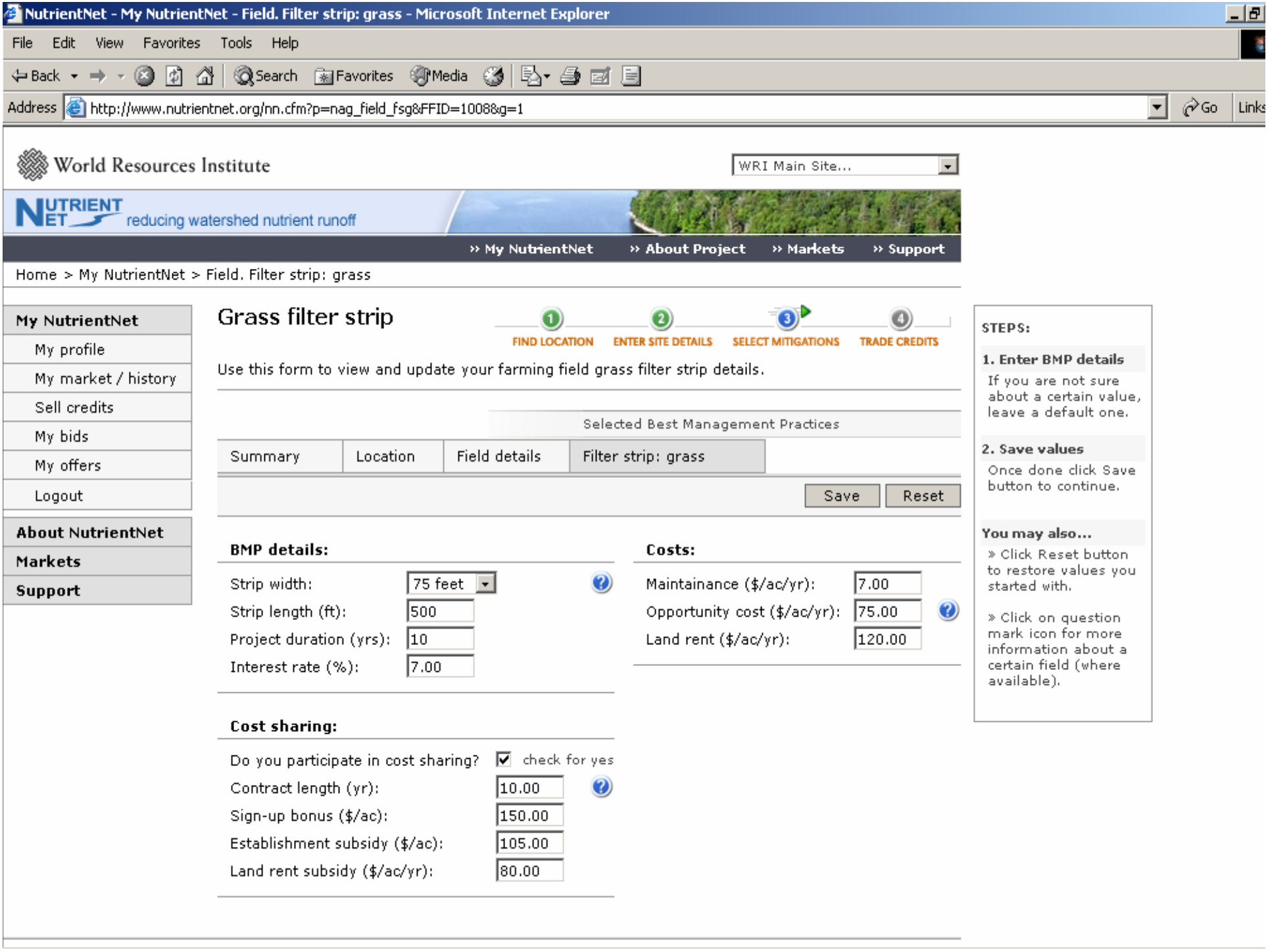
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Home > My NutrientNet > Field. Filter strip: grass
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My profile
My market / history
Sell credits
My bids
My offers
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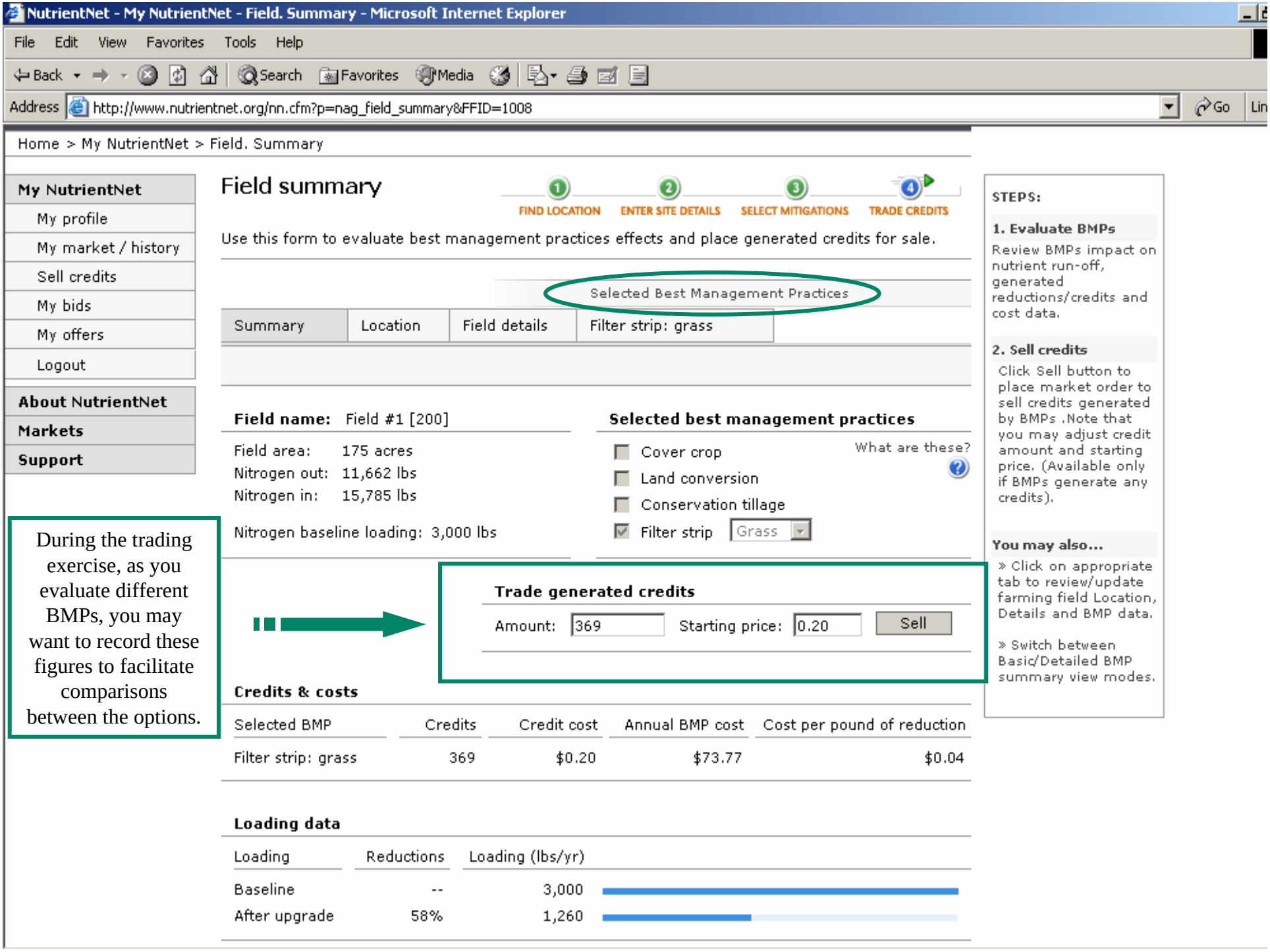
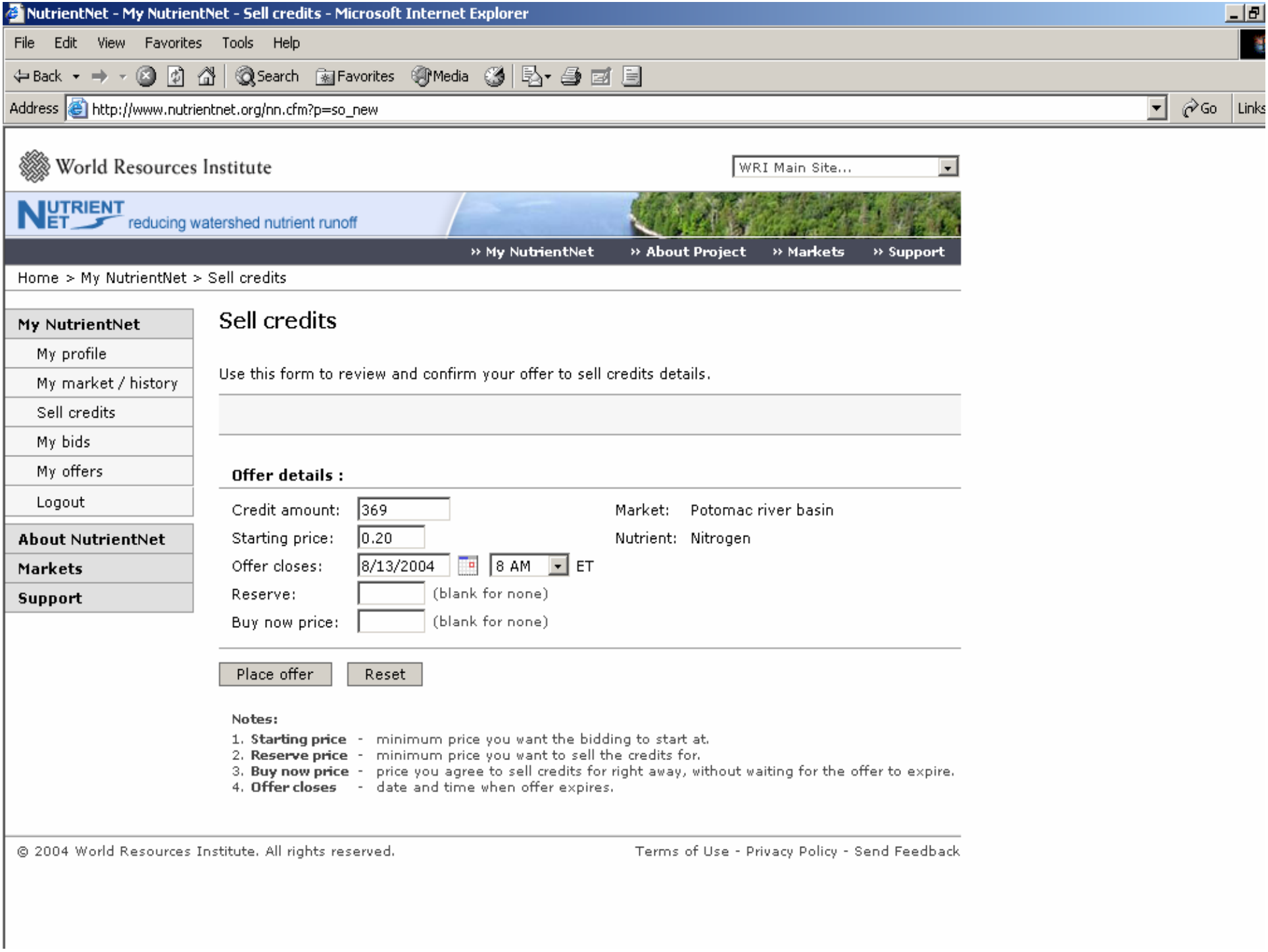
Markets
Support
Grass filter strip
1 FIND LOCATION
2 ENTER SITE DETAILS
3 SELECT MITIGATIONS
4 TRADE CREDITS
Use this form to view and update your farming field grass filter strip details.
Selected Best Management Practices
Summary
Location
Field details
Filter strip: grass
Save
Reset
BMP details:
Strip width: 75 feet
Strip length (ft): 500
Project duration (yrs): 10
Interest rate (%): 7.00
Costs:
Maintainance ($/ac/yr): 7.00
Opportunity cost ($/ac/yr): 75.00
Land rent ($/ac/yr): 120.00
Cost sharing:
Do you participate in cost sharing? check for yes
Contract length (yr): 10.00
Sign-up bonus ($/ac): 150.00
Establishment subsidy ($/ac): 105.00
Land rent subsidy ($/ac/yr): 80.00
STEPS:
1. Enter BMP details
If you are not sure about a certain value, leave a default one.
2. Save values
Once done click Save button to continue.
You may also...
» Click Reset button to restore values you started with.
» Click on question mark icon for more information about a certain field (where available).



During the trading exercise, as you evaluate different BMPs, you may want to record these figures to facilitate comparisons between the options.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Sell credits
Use this form to review and confirm your offer to sell credits details.
Offer details :
Credit amount: 369
Starting price: 0.20
Offer closes: 8/13/2004 8 AM ET
Reserve: (blank for none)
Buy now price: (blank for none)
Market: Potomac river basin
Nutrient: Nitrogen
Place offer
Reset
Notes:
1. Starting price - minimum price you want the bidding to start at.
2. Reserve price - minimum price you want to sell the credits for.
3. Buy now price - price you agree to sell credits for right away, without waiting for the offer to expire.
4. Offer closes - date and time when offer expires.
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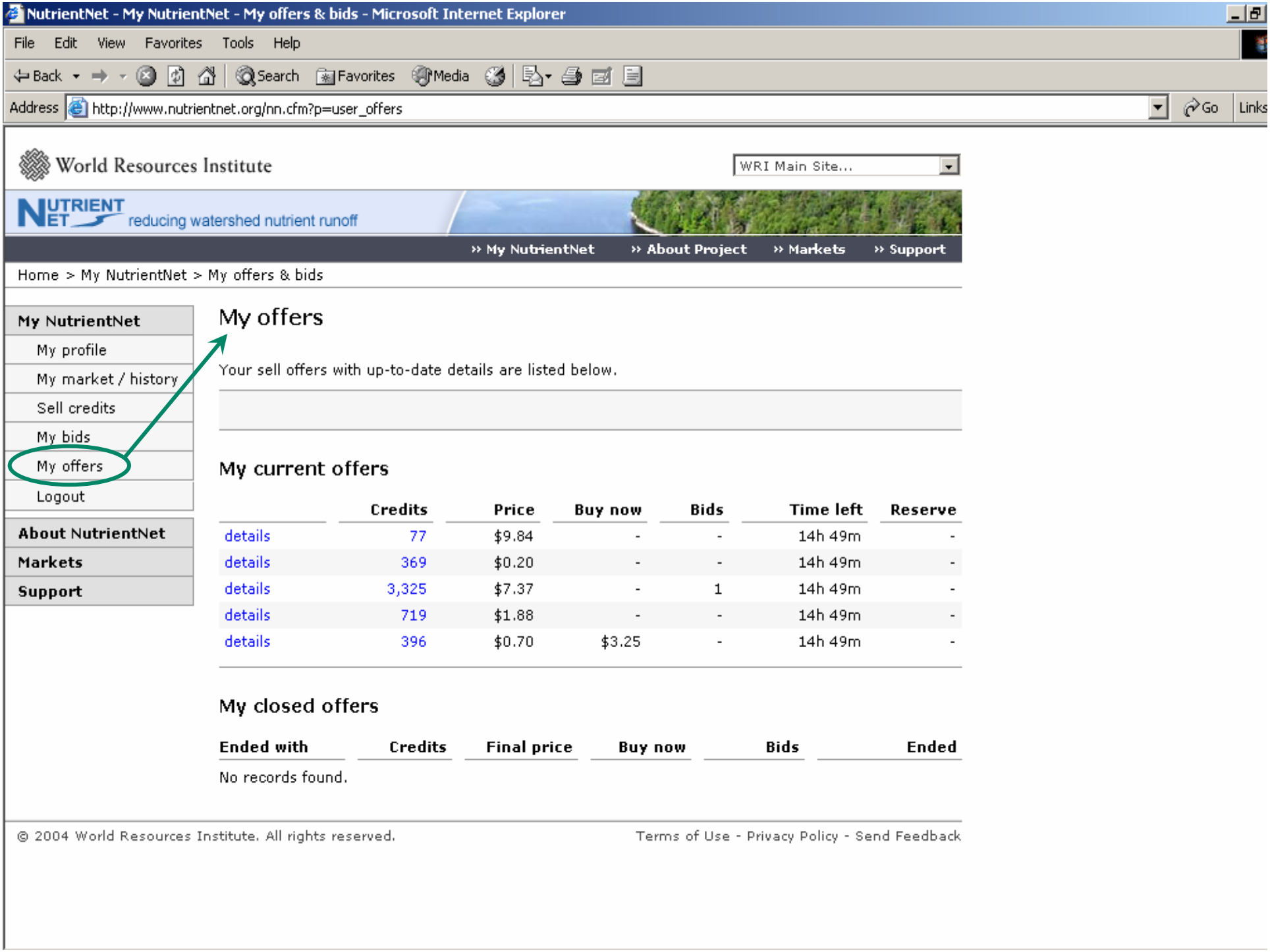
NutrientNet - My NutrientNet - My offers & bids - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://www.nutrientnet.org/nn.cfm?p=user_offers
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Home > My NutrientNet > My offers & bids
My NutrientNet
My profile
My market / history
Sell credits
My bids
My offers
Logout
About NutrientNet
Markets
Support
My offers
Your sell offers with up-to-date details are listed below.
My current offers
Credits Price Buy now Bids Time left Reserve
details 77 $9.84 - - 14h 49m -
details 369 $0.20 - - 14h 49m -
details 3,325 $7.37 - 1 14h 49m -
details 719 $1.88 - - 14h 49m -
details 396 $0.70 $3.25 - 14h 49m -
My closed offers
Ended with Credits Final price Buy now Bids Ended
No records found.
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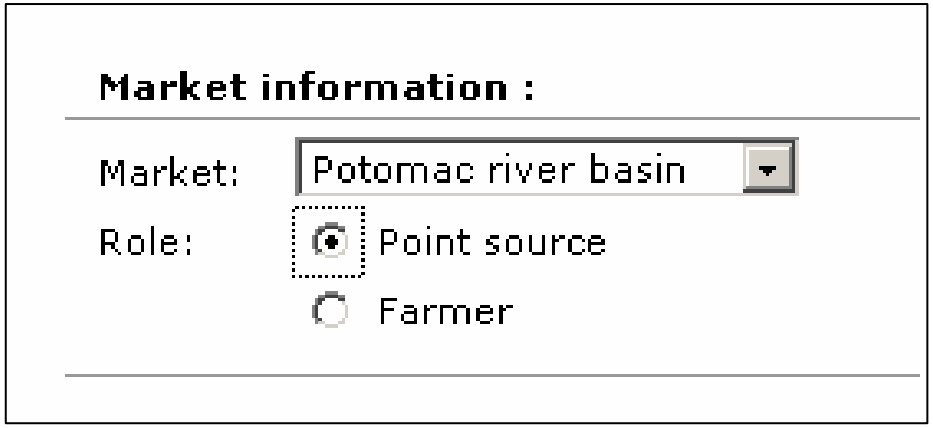
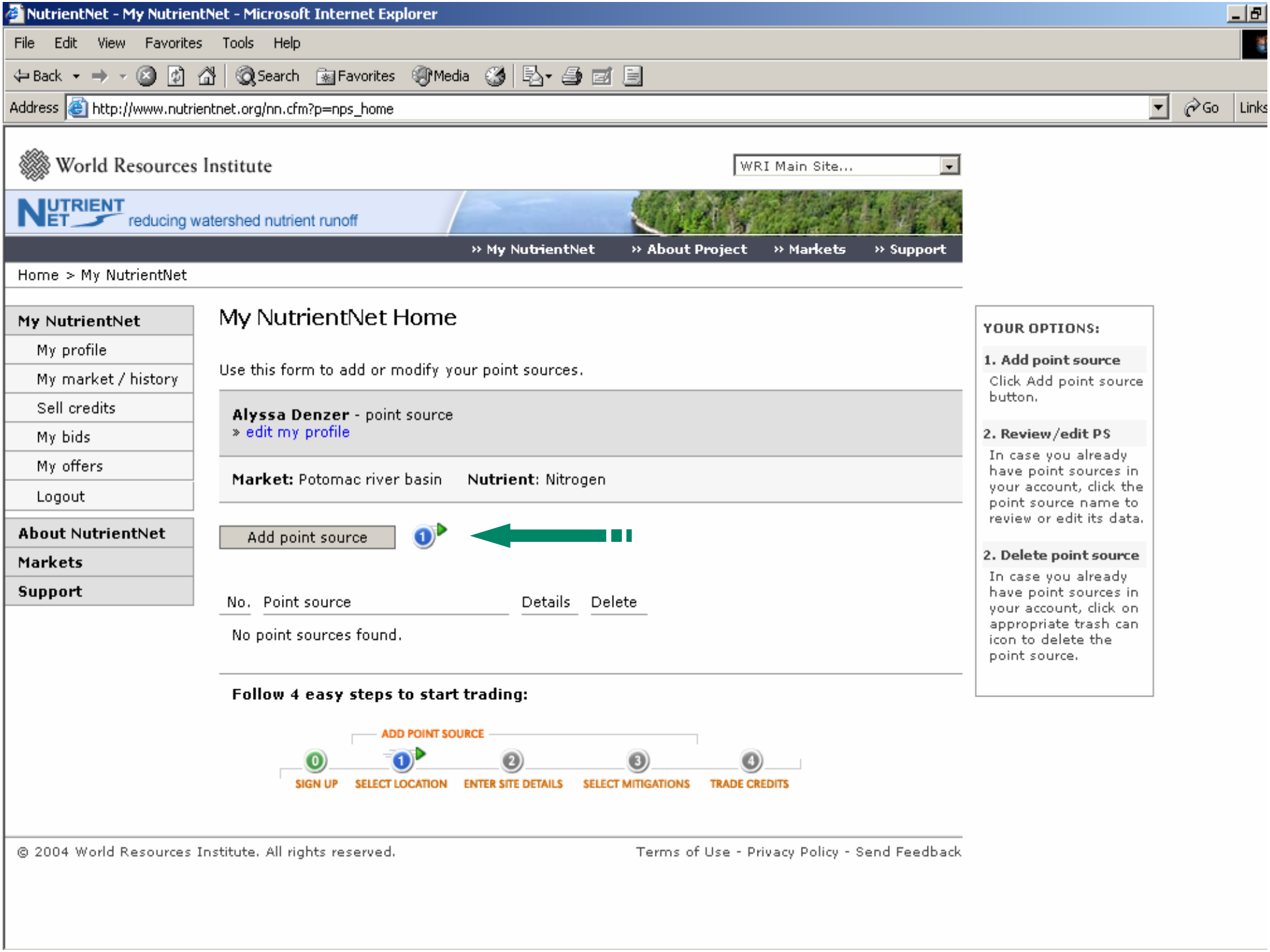
NutrientNet as a Point Source

Now let's take a look at the NutrientNet site from a Point Source's perspective, as defined by the user profile:

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NUTRIENT NET reducing watershed nutrient runoff
» My NutrientNet » About Project » Markets » Support
Home > My NutrientNet
My NutrientNet
My profile
My market / history
Sell credits
My bids
My offers
Logout
About NutrientNet
Markets
Support
My NutrientNet Home
Use this form to add or modify your point sources.
Alyssa Denzer - point source
» edit my profile
Market: Potomac river basin Nutrient: Nitrogen
Add point source
1
No. Point source Details Delete
No point sources found.
Follow 4 easy steps to start trading:
ADD POINT SOURCE
0 SIGN UP
1 SELECT LOCATION
2 ENTER SITE DETAILS
3 SELECT MITIGATIONS
4 TRADE CREDITS
YOUR OPTIONS:
1. Add point source
Click Add point source button.
2. Review/edit PS
In case you already have point sources in your account, click the point source name to review or edit its data.
2. Delete point source
In case you already have point sources in your account, click on appropriate trash can icon to delete the point source.
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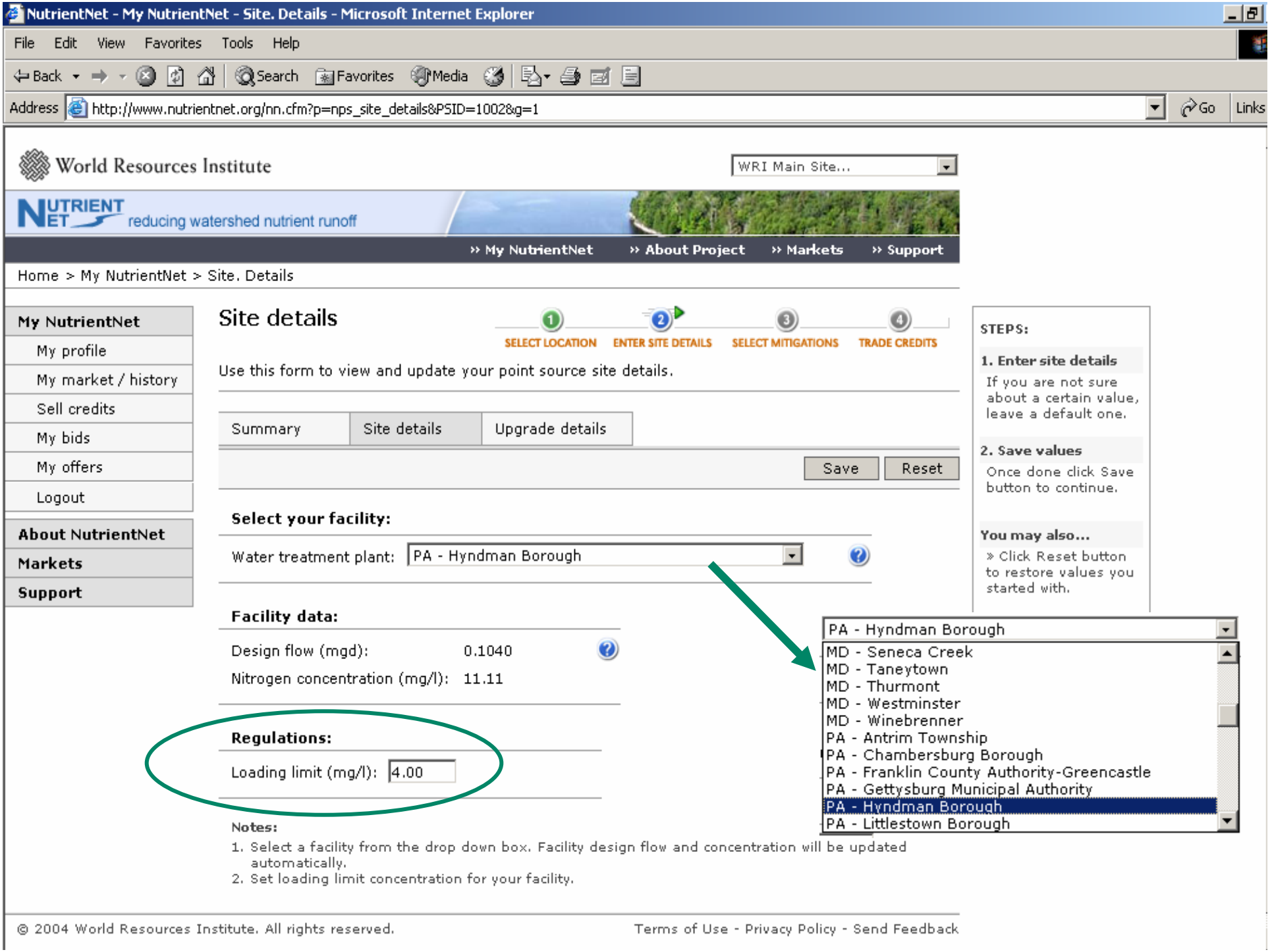
NutrientNet - My NutrientNet - Site. Details - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://www.nutrientnet.org/nn.cfm?p=nps_site_details&PSID=1002&g=1
Go Links
World Resources Institute
WRI Main Site...
NUTRIENT NET reducing watershed nutrient runoff
» My NutrientNet » About Project » Markets » Support
Home > My NutrientNet > Site. Details
My NutrientNet
My profile
My market / history
Sell credits
My bids
My offers
Logout
About NutrientNet
Markets
Support
Site details
1 SELECT LOCATION
2 ENTER SITE DETAILS
3 SELECT MITIGATIONS
4 TRADE CREDITS
Use this form to view and update your point source site details.
Summary
Site details
Upgrade details
Save
Reset
Select your facility:
Water treatment plant: PA - Hyndman Borough
Facility data:
Design flow (mgd): 0.1040
Nitrogen concentration (mg/l): 11.11
Regulations:
Loading limit (mg/l): 4.00
Notes:
1. Select a facility from the drop down box. Facility design flow and concentration will be updated automatically.
2. Set loading limit concentration for your facility.
STEPS:
1. Enter site details
If you are not sure about a certain value, leave a default one.
2. Save values
Once done click Save button to continue.
You may also...
» Click Reset button to restore values you started with.
PA - Hyndman Borough
MD - Seneca Creek
MD - Taneytown
MD - Thurmont
MD - Westminster
MD - Winebrenner
PA - Antrim Township
PA - Chambersburg Borough
PA - Franklin County Authority-Greencastle
PA - Gettysburg Municipal Authority
PA - Hyndman Borough
PA - Littlestown Borough
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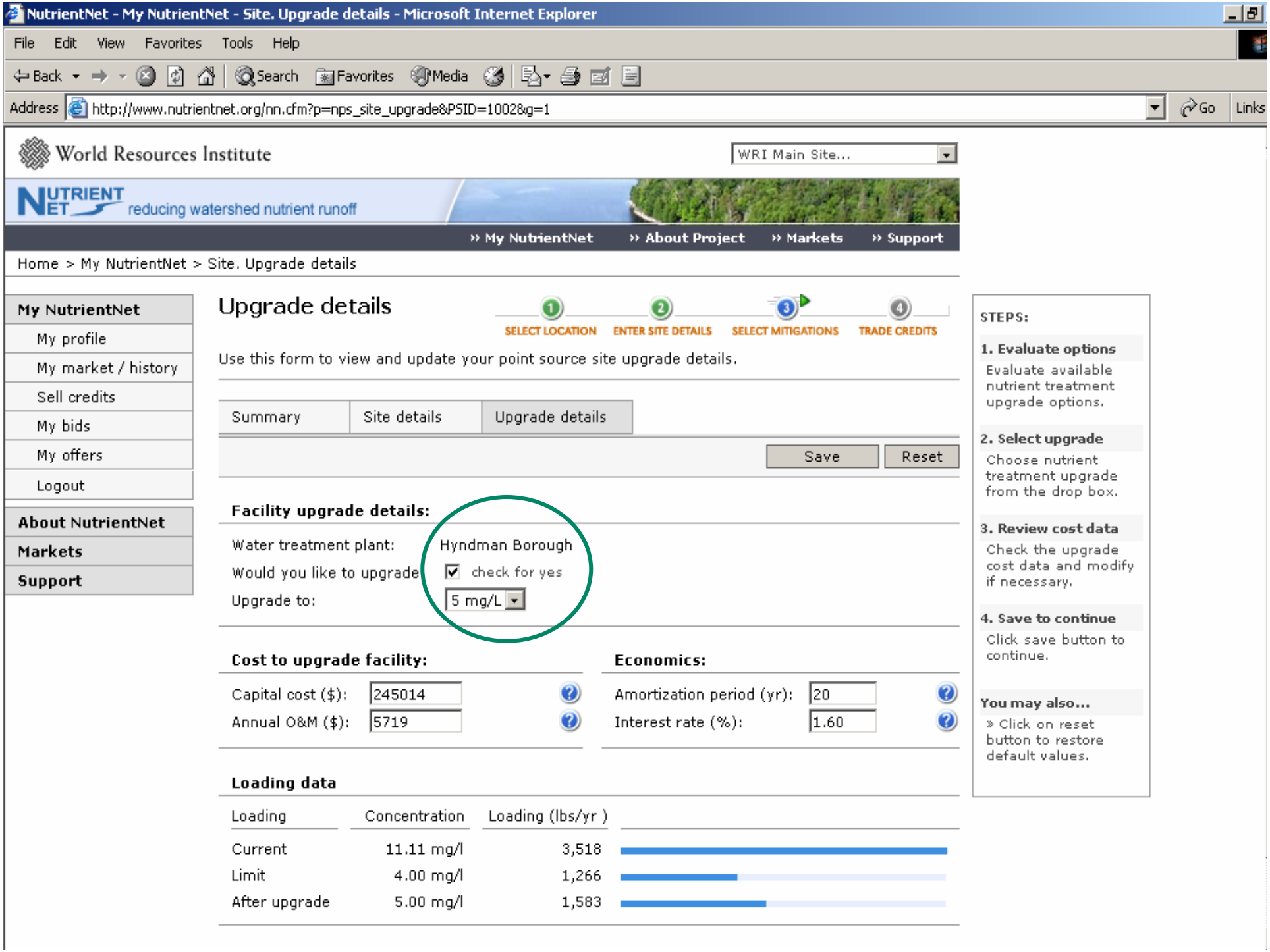
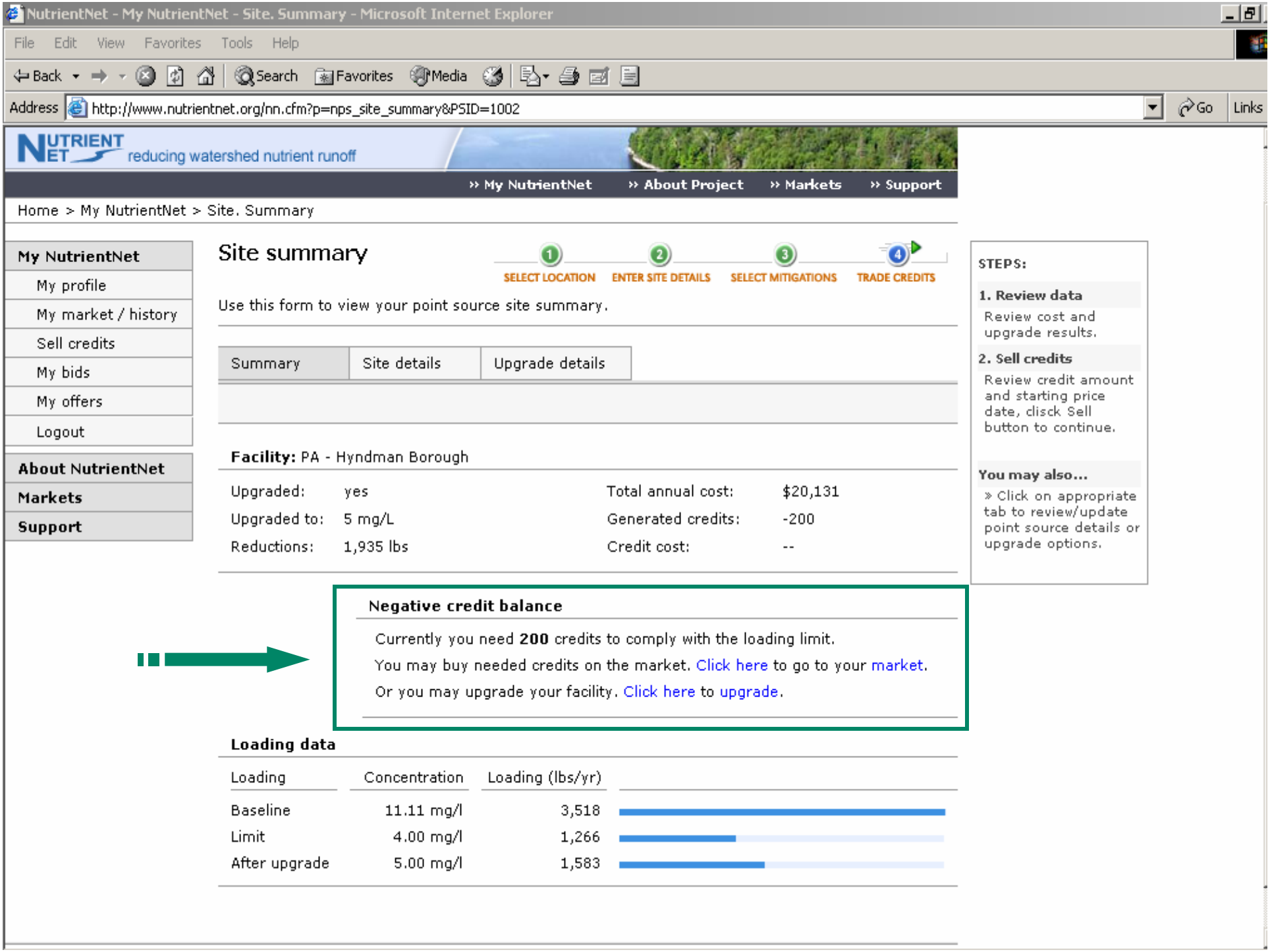

NutrientNet - My NutrientNet - Site. Upgrade details - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://www.nutrientnet.org/nn.cfm?p=nps_site_upgrade&PSID=1002&g=1
Go Links
World Resources Institute
WRI Main Site...
NUTRIENT NET reducing watershed nutrient runoff
» My NutrientNet » About Project » Markets » Support
Home > My NutrientNet > Site. Upgrade details
My NutrientNet
My profile
My market / history
Sell credits
My bids
My offers
Logout
About NutrientNet
Markets
Support
Upgrade details
1 SELECT LOCATION
2 ENTER SITE DETAILS
3 SELECT MITIGATIONS
4 TRADE CREDITS
Use this form to view and update your point source site upgrade details.
Summary
Site details
Upgrade details
Save
Reset
Facility upgrade details:
Water treatment plant: Hyndman Borough
Would you like to upgrade check for yes
Upgrade to: 5 mg/L
Cost to upgrade facility:
Capital cost ($): 245014
Annual O&M ($): 5719
Economics:
Amortization period (yr): 20
Interest rate (%): 1.60
Loading data
Loading Concentration Loading (lbs/yr)
Current 11.11 mg/l 3,518
Limit 4.00 mg/l 1,266
After upgrade 5.00 mg/l 1,583
STEPS:
1. Evaluate options
Evaluate available nutrient treatment upgrade options.
2. Select upgrade
Choose nutrient treatment upgrade from the drop box.
3. Review cost data
Check the upgrade cost data and modify if necessary.
4. Save to continue
Click save button to continue.
You may also...
» Click on reset button to restore default values.


NutrientNet - My NutrientNet - Site. Summary - Microsoft Internet Explorer
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Address http://www.nutrientnet.org/nn.cfm?p=nps_site_summary&PSID=1002
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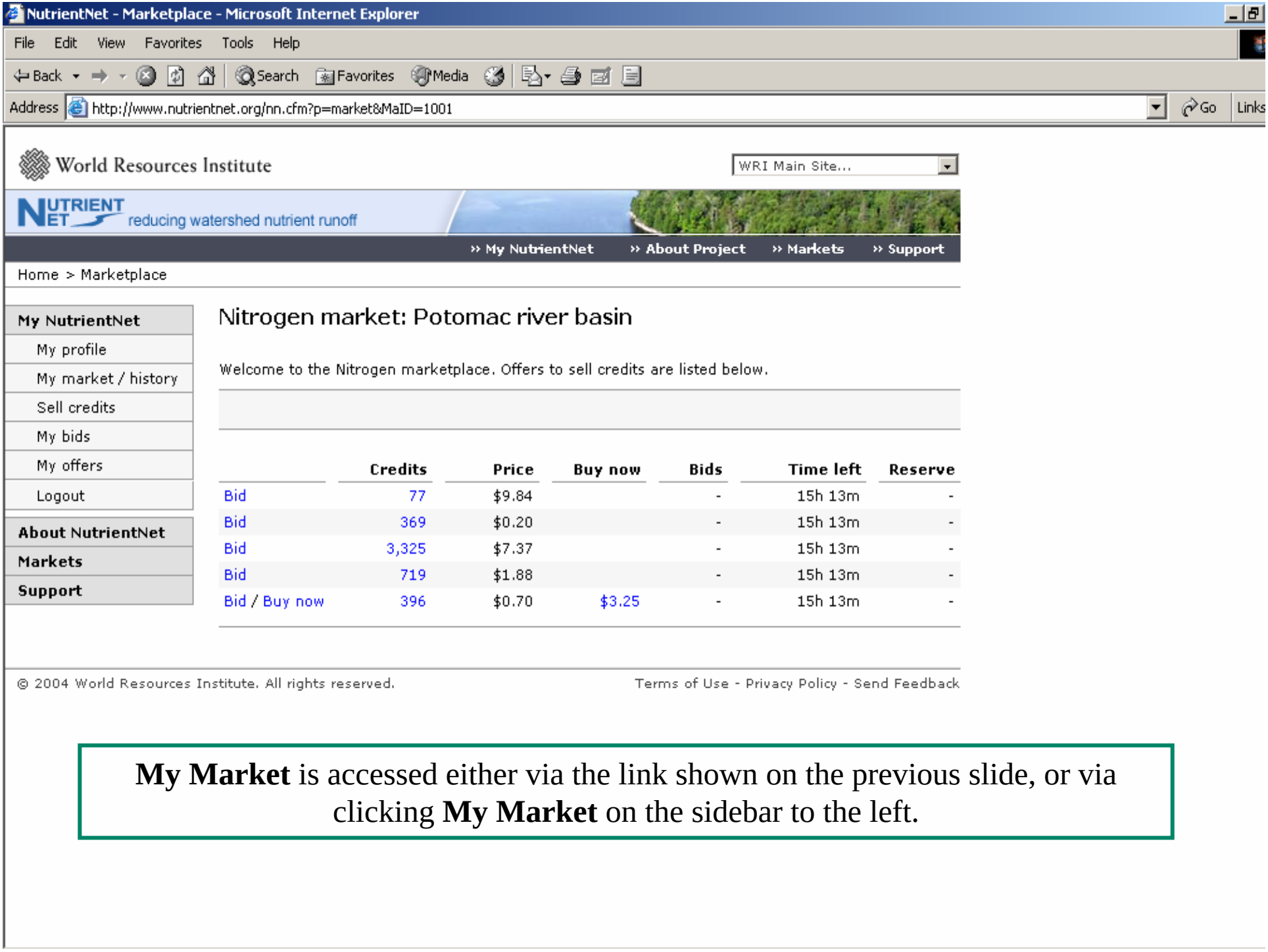
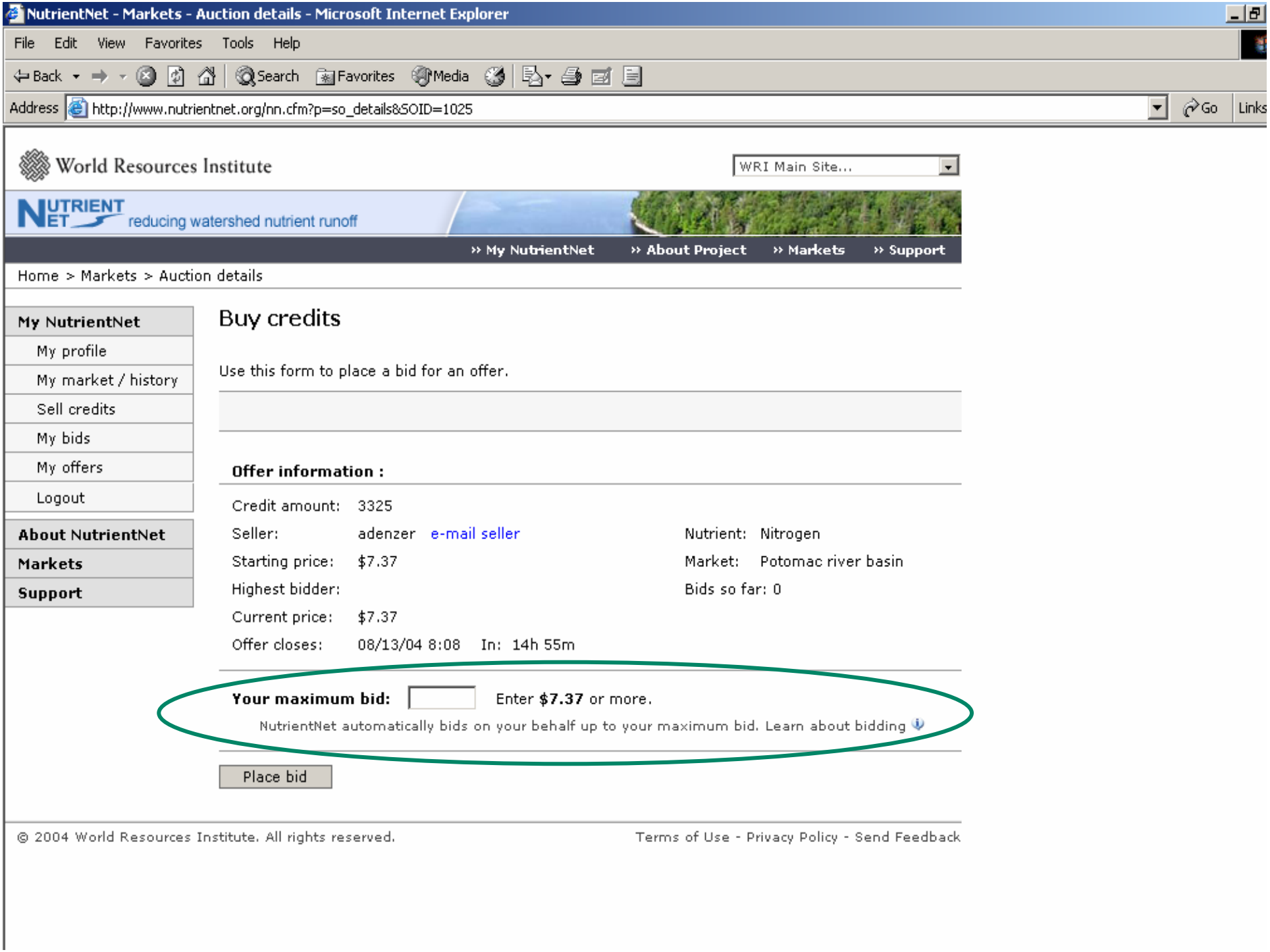
» My NutrientNet » About Project » Markets » Support
Home > My NutrientNet > Site. Summary
My NutrientNet
My profile
My market / history
Sell credits
My bids
My offers
Logout
About NutrientNet
Markets
Support
Site summary
1 SELECT LOCATION
2 ENTER SITE DETAILS
3 SELECT MITIGATIONS
4 TRADE CREDITS
Use this form to view your point source site summary.
Summary
Site details
Upgrade details
Facility: PA - Hyndman Borough
Upgraded: yes
Upgraded to: 5 mg/L
Reductions: 1,935 lbs
Total annual cost: $20,131
Generated credits: -200
Credit cost: --
Negative credit balance
Currently you need 200 credits to comply with the loading limit.
You may buy needed credits on the market. Click here to go to your market.
Or you may upgrade your facility. Click here to upgrade.
Loading data
Loading
Concentration
Loading (lbs/yr)
Baseline 11.11 mg/l 3,518
Limit 4.00 mg/l 1,266
After upgrade 5.00 mg/l 1,583
STEPS:
1. Review data
Review cost and upgrade results.
2. Sell credits
Review credit amount and starting price date, clisck Sell button to continue.
You may also...
» Click on appropriate tab to review/update point source details or upgrade options.

Viewing the Market

- After establishing that the Point Source will need to buy credits, the next step is to view the **Market**
- ***My Market*** displays credits for sale and current bids



My Market is accessed either via the link shown on the previous slide, or via clicking **My Market** on the sidebar to the left.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Home > Markets > Auction details
My NutrientNet
My profile
My market / history
Sell credits
My bids
My offers
Logout
About NutrientNet
Markets
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Buy credits
Use this form to place a bid for an offer.
Offer information :
Credit amount: 3325
Seller: adenzer e-mail seller
Starting price: $7.37
Highest bidder:
Current price: $7.37
Offer closes: 08/13/04 8:08 In: 14h 55m
Nutrient: Nitrogen
Market: Potomac river basin
Bids so far: 0
Your maximum bid:
Enter $7.37 or more.
NutrientNet automatically bids on your behalf up to your maximum bid. Learn about bidding
Place bid
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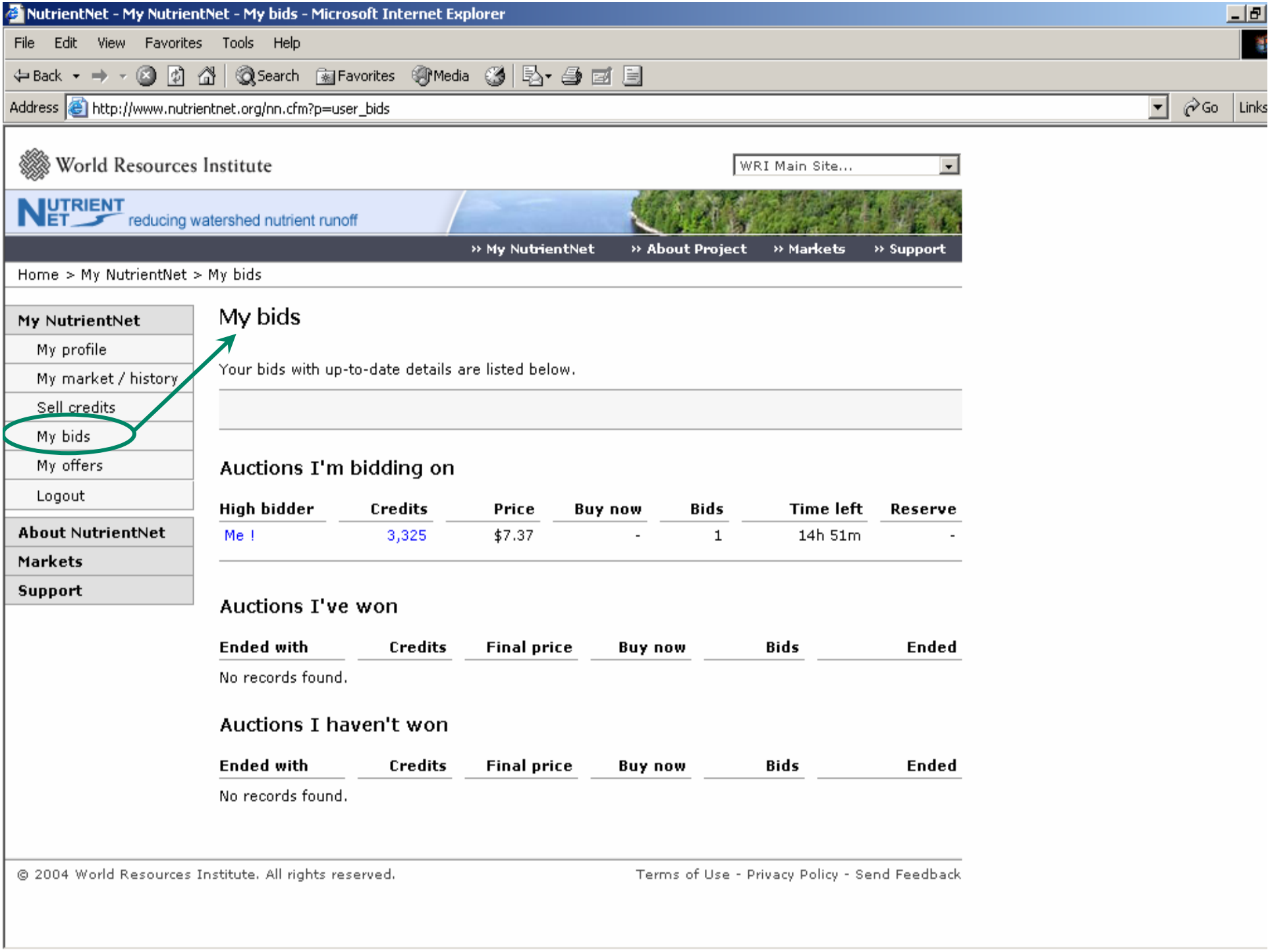
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» My NutrientNet » About Project » Markets » Support
Home > My NutrientNet > My bids
My NutrientNet
My profile
My market / history
Sell credits
My bids
My offers
Logout
About NutrientNet
Markets
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Your bids with up-to-date details are listed below.
Auctions I'm bidding on
High bidder Credits Price Buy now Bids Time left Reserve
Me ! 3,325 $7.37 - 1 14h 51m -
Auctions I've won
Ended with Credits Final price Buy now Bids Ended
No records found.
Auctions I haven't won
Ended with Credits Final price Buy now Bids Ended
No records found.
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