Converting a Shape File

(shape files must be converted into a file in a format that the X20 can use)

Plotting On Screen Only

No Layers
Track Only

TOPCON
Precision Agriculture

MAPLINK

OPTIONS

HELP

QUICK MAP

JOB ASSISTANT

Swath 75f
NOT SAVING

WHEAT-HR	NONE	NONE	NH3 as N	0
150	0	0	150	0

BOURGAULT *Pursuing Perfection*

VRC Master

NEXT LAYER | VRC LOG | GENERAL SET-UP | VIEW IN ➕ | VIEW OUT ➖ | VIEW ALL ═ | EXIT OFF | LOGGING IS OFF
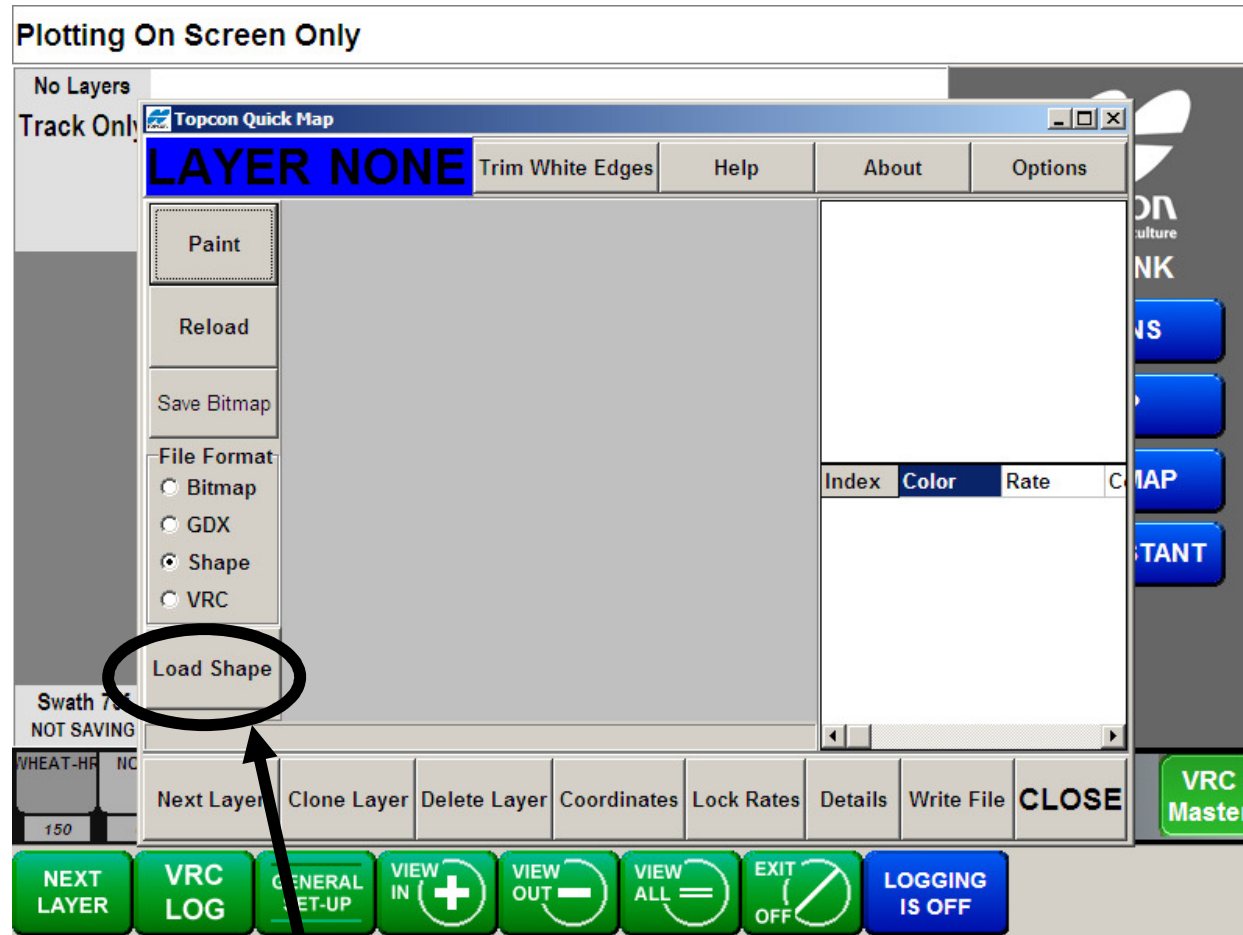
First step is to enter the QUICK MAP program

Converting a Shape File
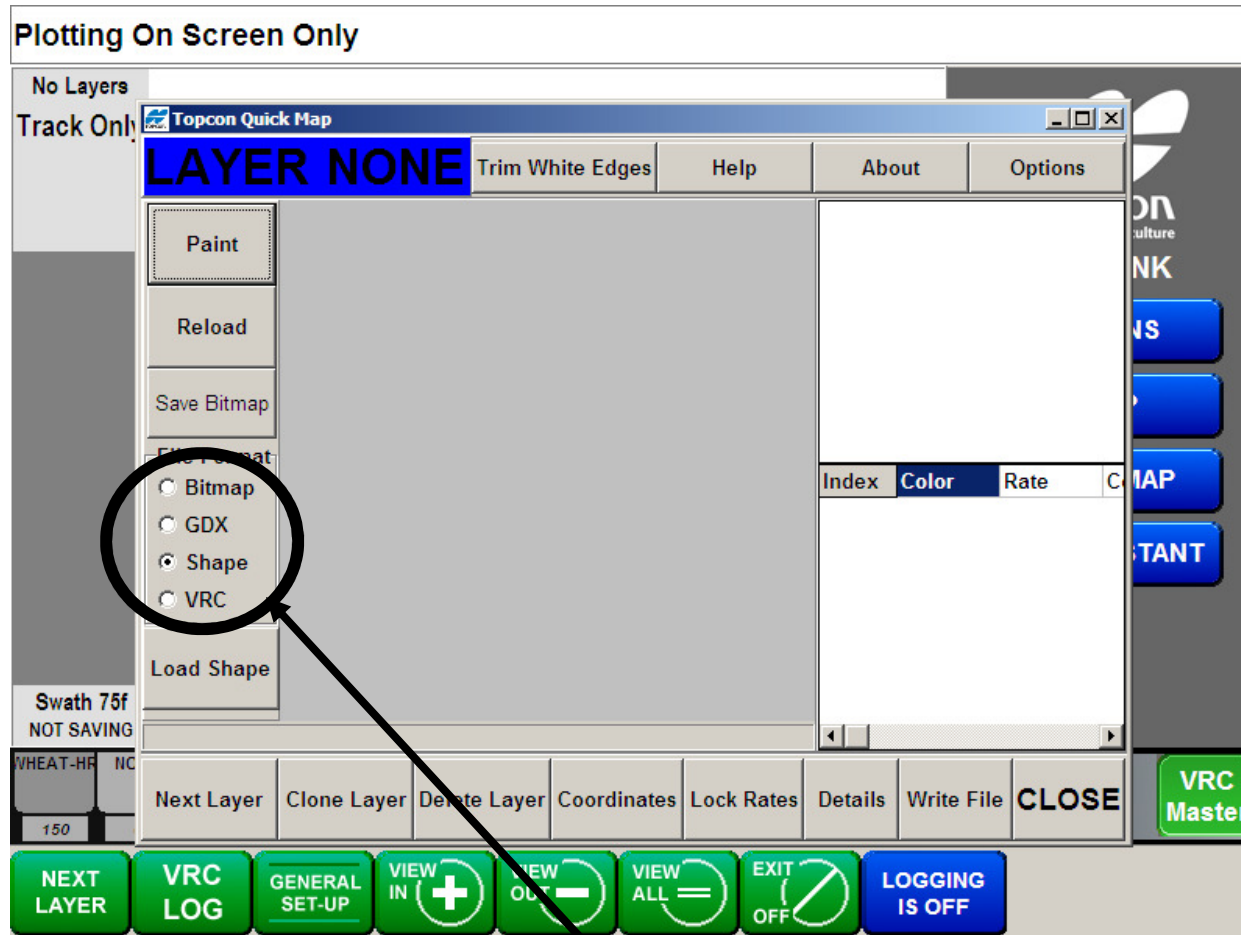
You can convert Bitmap, GDX or Shape files to VRC files

Converting a Shape File
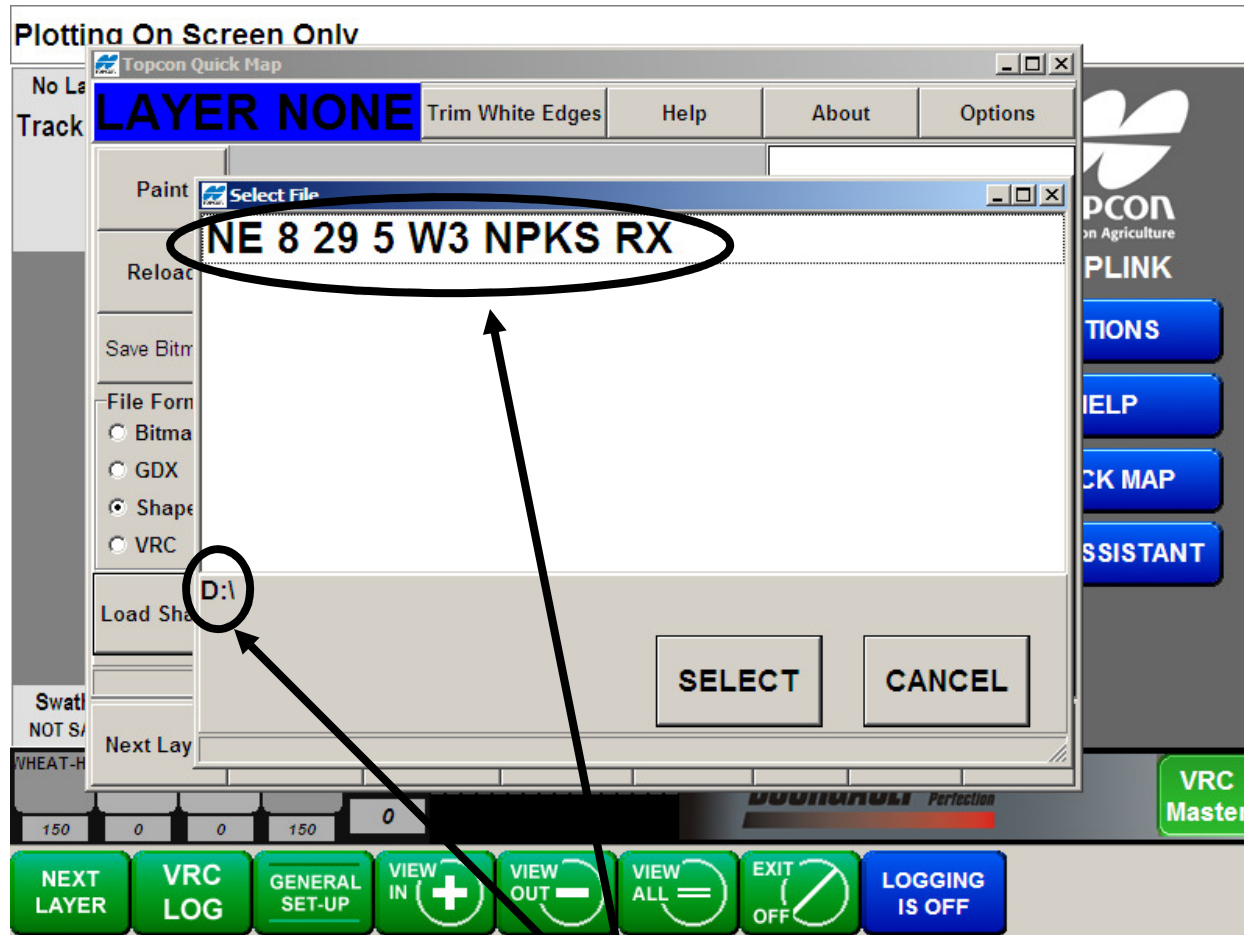
Plotting On Screen Only

No Layers

Track Only

Topcon Quick Map

LAYER NONE | Trim White Edges | Help | About | Options

Paint

Reload

Save Bitmap

File Format
- ○ Bitmap
- ○ GDX
- ● Shape
- ○ VRC

Load Shape

Index | Color | Rate | C

Swath 7
NOT SAVING

WHEAT-HR | NC

150

Next Layer | Clone Layer | Delete Layer | Coordinates | Lock Rates | Details | Write File | **CLOSE**

NEXT LAYER | VRC LOG | GENERAL SET-UP | VIEW IN + | VIEW OUT − | VIEW ALL = | EXIT OFF | LOGGING IS OFF

VRC Master

Shape is a common format for maps.

Press Load Shape to start the conversion process.

Converting a Shape File

Plotting On Screen Only

Topcon Quick Map

LAYER NONE Trim White Edges   Help   About   Options

Paint

Select File

NE 8 29 5 W3 NPKS RX

Reload

Save Bitm

File Form
- ○ Bitma
- ○ GDX
- ◉ Shape
- ○ VRC

D:\

Load Sha

SELECT   CANCEL

Next Lay

Swath
NOT SA
WHEAT-H

150   0   0   150   0

PLINK

TIONS

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CK MAP

SSISTANT

VRC
Master

NEXT
LAYER   VRC
LOG   GENERAL
SET-UP   VIEW
IN +   VIEW
OUT −   VIEW
ALL =   EXIT
OFF   LOGGING
IS OFF

Shape files loaded on D:\ drive

(D:\ is normally the USB memory stick)

Converting a Shape File

Plotting On Screen Only

No Layers

Track Only

Topcon Quick Map

LAYER 2 | Trim White Edges | Help | About | Options

Select File

NE 8 29 5 W3 NPKS RX

D:\
NE 8 29 5 W3 NPKS RX

SELECT | CANCEL

Swath 75f
NOT SAVING

WHEAT-HR

150

Next Layer | Clone Layer | Delete Layer | Coordinates | Lock Rates | Details | Write File | CLOSE

VRC Master

NEXT LAYER | VRC LOG | GENERAL SET-UP | VIEW IN | VIEW OUT | VIEW ALL | EXIT OFF | LOGGING IS OFF

Select a file then press SELECT

Converting a Shape File

Plotting On Screen Only

No Layers

Track Only

Shape File To Bitmap Converter ✕

Map Information and Data Base

Shapefile Uses Geographic Coordinates
RefE=383850.49 RefN=15703923.22 RefZ=13
MapWidth=824.73M MapHeight=826.12M
MetresPerCellX=2.754 MetresPerCellY=2.754
CellsX=300 CellsY=300
VALID SHAPE FILE - TYPE 5
46 Polygons Stored (5 Multipart)

Record	Nitrogen	Phos	Potash	ZoneID
1	36.00	40.00	17.00	3
2	31.00	48.00	0.00	5
3	33.00	48.00	0.00	7
4	33.00	48.00	0.00	6

Map Options
☐ Show Borders

Convert By
○ Cell Size
● Pixels

Load | Set Rate Colors

HELP | Cancel | OK

Cell Size (f)
32.81

Pixel Size
300

Rate Merging
● Off   ○ 10%
○ 1%   ○ 20%
○ 2%   ○ Auto
○ 5%   ○ Man

Swath 75f
NOT SAVING

WHEAT-HR

150

D:\NE 8 29 5 W3 NPKS RX.shp

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MAP
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VRC Master

NEXT LAYER | VRC LOG | GENERAL SET-UP | VIEW IN + | VIEW OUT − | VIEW ALL = | EXIT OFF | LOGGING IS OFF
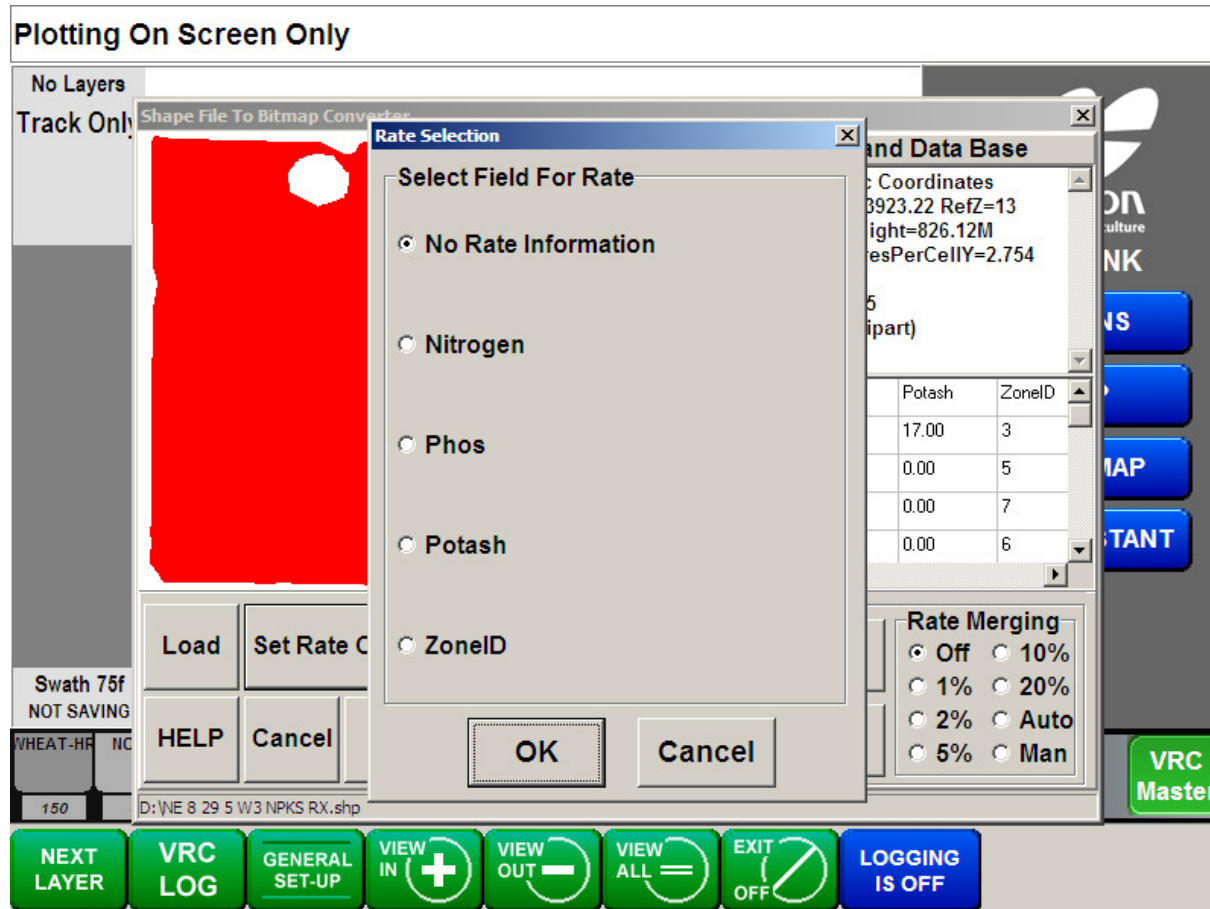
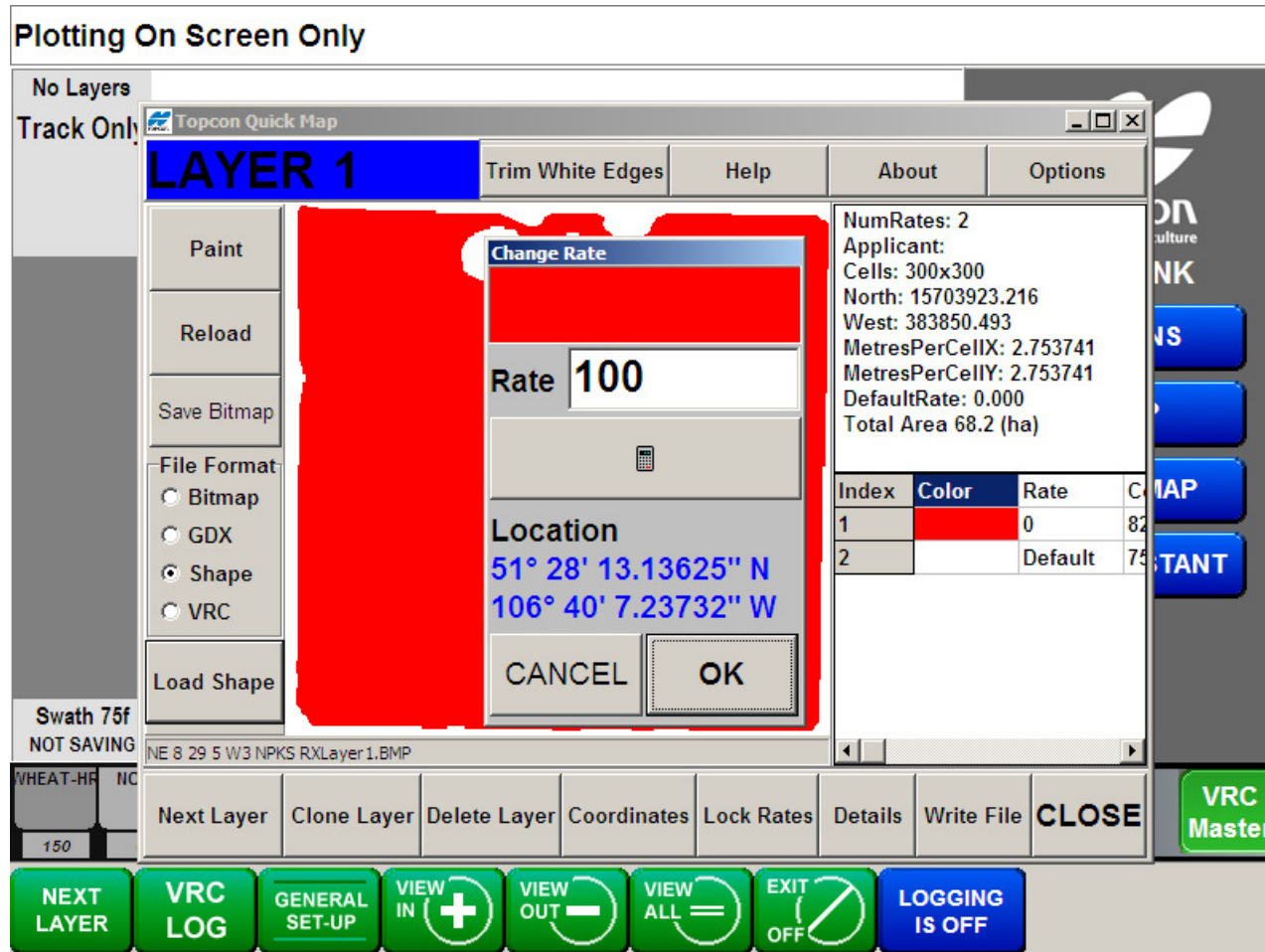**Press Set Rate Colors to set up your first layer which will correspond with tank #1**

Converting a Shape File

You will have to select the product for each layer which corresponds to the tank of your air seeder. No Rate Information would normally be your seed tank.
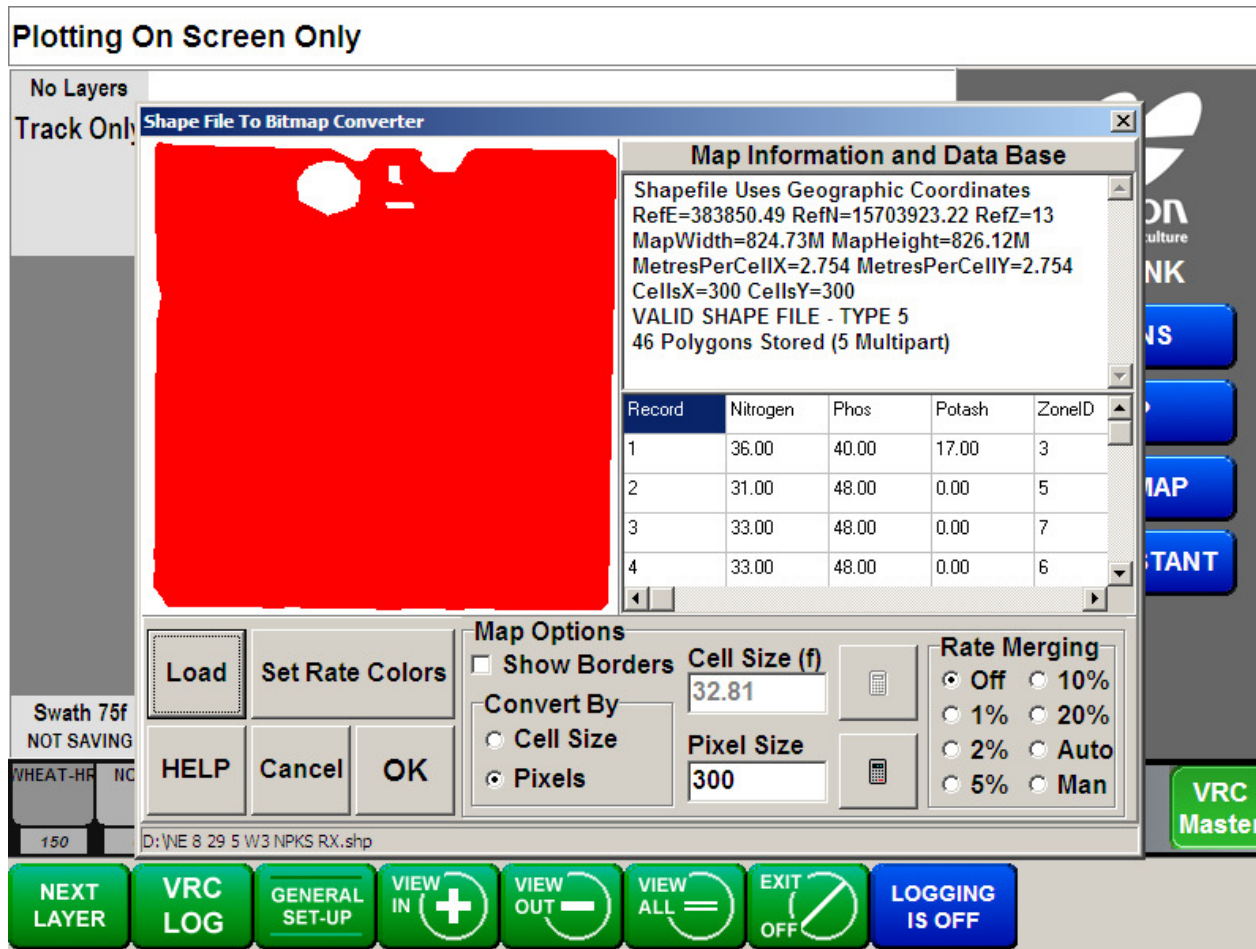
Converting a Shape File

Plotting On Screen Only

No Layers

Track Only

Topcon Quick Map

LAYER 1   Trim White Edges | Help | About | Options

Paint

Reload

Save Bitmap

File Format
- ○ Bitmap
- ○ GDX
- ● Shape
- ○ VRC

Load Shape

Change Rate

Rate **100**

🖩

Location

51° 28' 13.13625" N
106° 40' 7.23732" W

CANCEL | OK

NumRates: 2
Applicant:
Cells: 300x300
North: 15703923.216
West: 383850.493
MetresPerCellX: 2.753741
MetresPerCellY: 2.753741
DefaultRate: 0.000
Total Area 68.2 (ha)

Index	Color	Rate	C
1		0	82
2		Default	75

Swath 75f
NOT SAVING

NE 8 29 5 W3 NPKS RXLayer 1.BMP

Next Layer | Clone Layer | Delete Layer | Coordinates | Lock Rates | Details | Write File | CLOSE

WHEAT-HR
150

NEXT LAYER | VRC LOG | GENERAL SET-UP | VIEW IN | VIEW OUT | VIEW ALL | EXIT OFF | LOGGING IS OFF

VRC Master

Touch anywhere in the red area to enter your seed rate if you have seed in tank #1, we have entered 100

Converting a Shape File

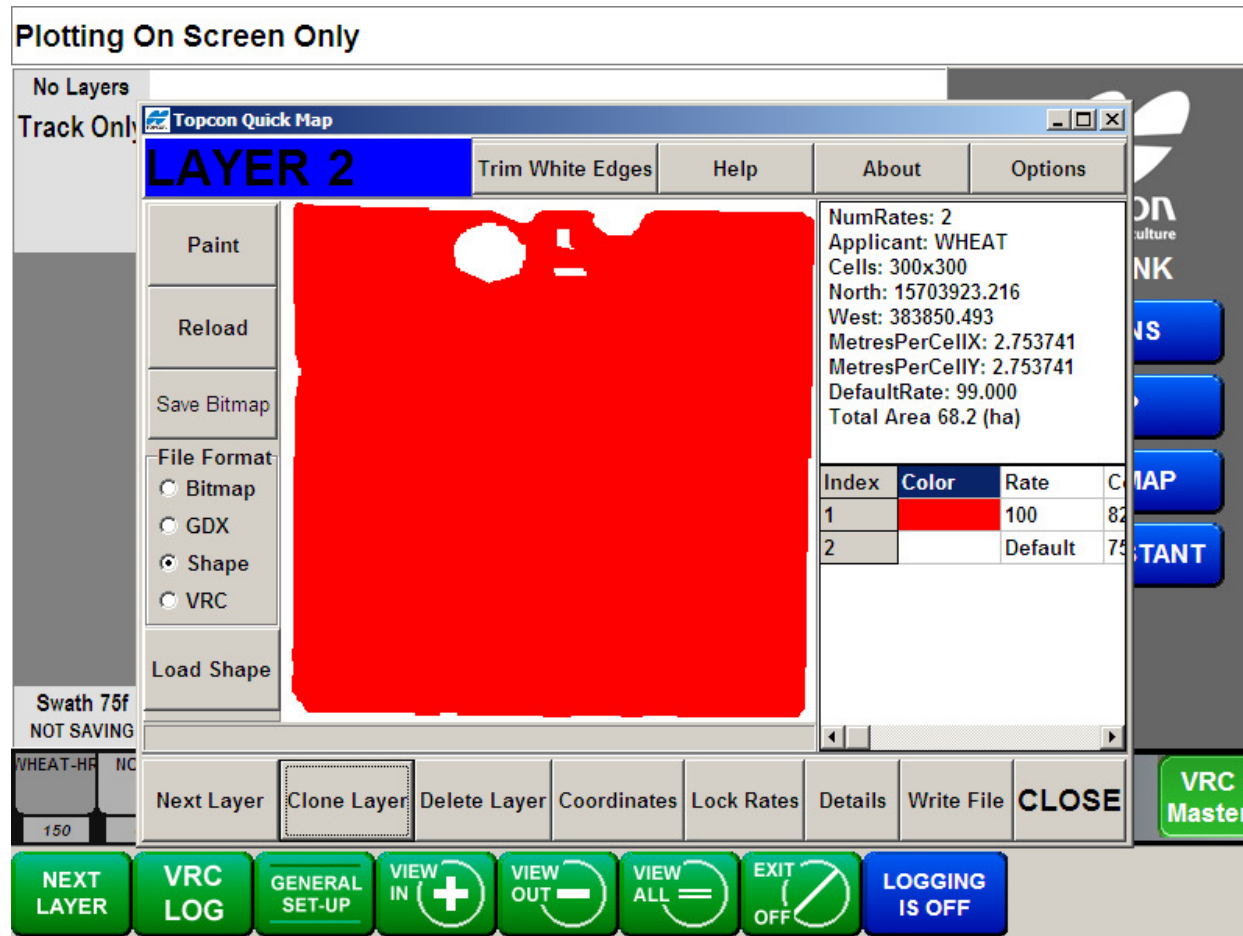**Plotting On Screen Only**

No Layers

Track Only

Shape File To Bitmap Converter

Map Information and Data Base

Shapefile Uses Geographic Coordinates
RefE=383850.49 RefN=15703923.22 RefZ=13
MapWidth=824.73M MapHeight=826.12M
MetresPerCellX=2.754 MetresPerCellY=2.754
CellsX=300 CellsY=300
VALID SHAPE FILE - TYPE 5
46 Polygons Stored (5 Multipart)

Record	Nitrogen	Phos	Potash	ZoneID
1	36.00	40.00	17.00	3
2	31.00	48.00	0.00	5
3	33.00	48.00	0.00	7
4	33.00	48.00	0.00	6

Map Options

☐ Show Borders

Convert By
○ Cell Size
◉ Pixels

Cell Size (f)
32.81

Pixel Size
300

Rate Merging
◉ Off   ○ 10%
○ 1%   ○ 20%
○ 2%   ○ Auto
○ 5%   ○ Man

Load   Set Rate Colors

HELP   Cancel   OK

D:\NE 8 29 5 W3 NPKS RX.shp

Swath 75f
NOT SAVING

WHEAT-HR   NO

150

NEXT LAYER   VRC LOG   GENERAL SET-UP   VIEW IN +   VIEW OUT −   VIEW ALL =   EXIT OFF   LOGGING IS OFF

VRC Master

Press Load again to set up the second layer (tank 2)

Converting a Shape File

Plotting On Screen Only

No Layers

Track Only

Topcon Quick Map

LAYER 2   Trim White Edges   Help   About   Options

Select File

NE 8 29 5 W3 NPKS RX

D:\
NE 8 29 5 W3 NPKS RX

SELECT   **CANCEL**

File
- E
- C
- S
- V

Save

Load

Swath 75f
NOT SAVING

WHEAT-HR   NO

150

Next Layer | Clone Layer | Delete Layer | Coordinates | Lock Rates | Details | Write File | **CLOSE**

NEXT LAYER | **VRC LOG** | **GENERAL SET-UP** | **VIEW IN (+)** | **VIEW OUT (−)** | **VIEW ALL (=)** | **EXIT OFF** | **LOGGING IS OFF** | **VRC Master**

You will have to repeat the process of selecting the map and picking the product for each tank that has product in it. If you are not using all of the tanks you must enter Cloned Layers.

Converting a Shape File

Duplicate Layer for tank 2 which will not be metering product

Converting a Shape File
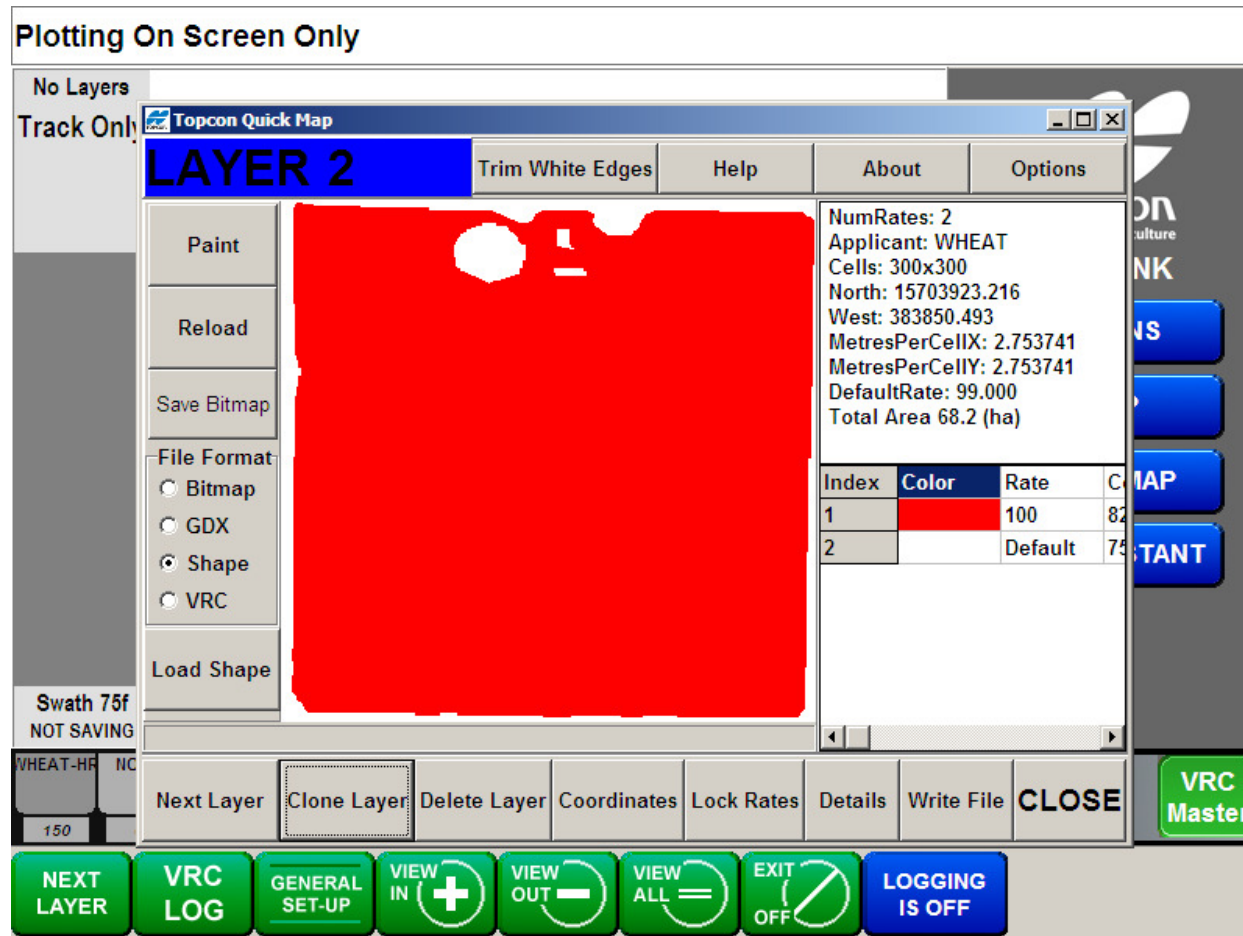
Press Load Shape again to enter Layer 3 and so on till all of the layers are set up

Converting a Shape File
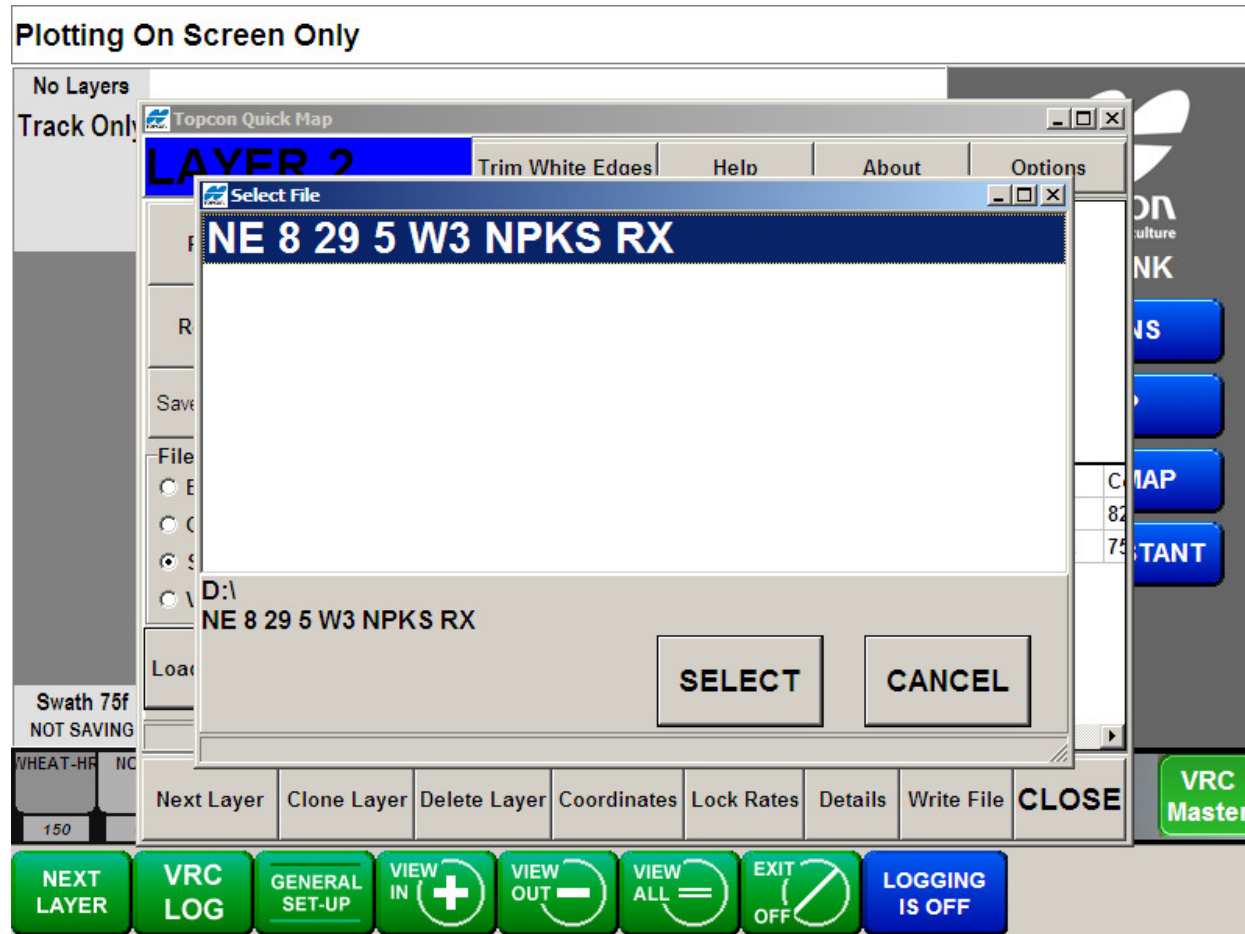
Select the file again to set up the next layer

Converting a Shape File

No Layers

Track Only

Shape File To Bitmap Converter

Rate Selection

11	45		45
12	45		42
13	45		35
14	45		38
15	45		39
16	36		17
17	36		33
18	36		0
19	35		13
20	35		23

Load   Set Rate

HELP   Cancel

Cancel   OK

7 Unique Rates Found

D:\NE 8 29 5 W3 NPKS RX.shp

nd Data Base

Coordinates
)23.22 RefZ=13
ght=826.12M
sPerCellY=2.754

(art)

	Potash	ZoneID
	17.00	3
	0.00	5
	0.00	7
	0.00	6

NS

MAP

TANT

Rate Merging
- ⦿ Off
- ○ 1%
- ○ 2%
- ○ 5%
- ○ 10%
- ○ 20%
- ○ Auto
- ○ Man

Swath 75f
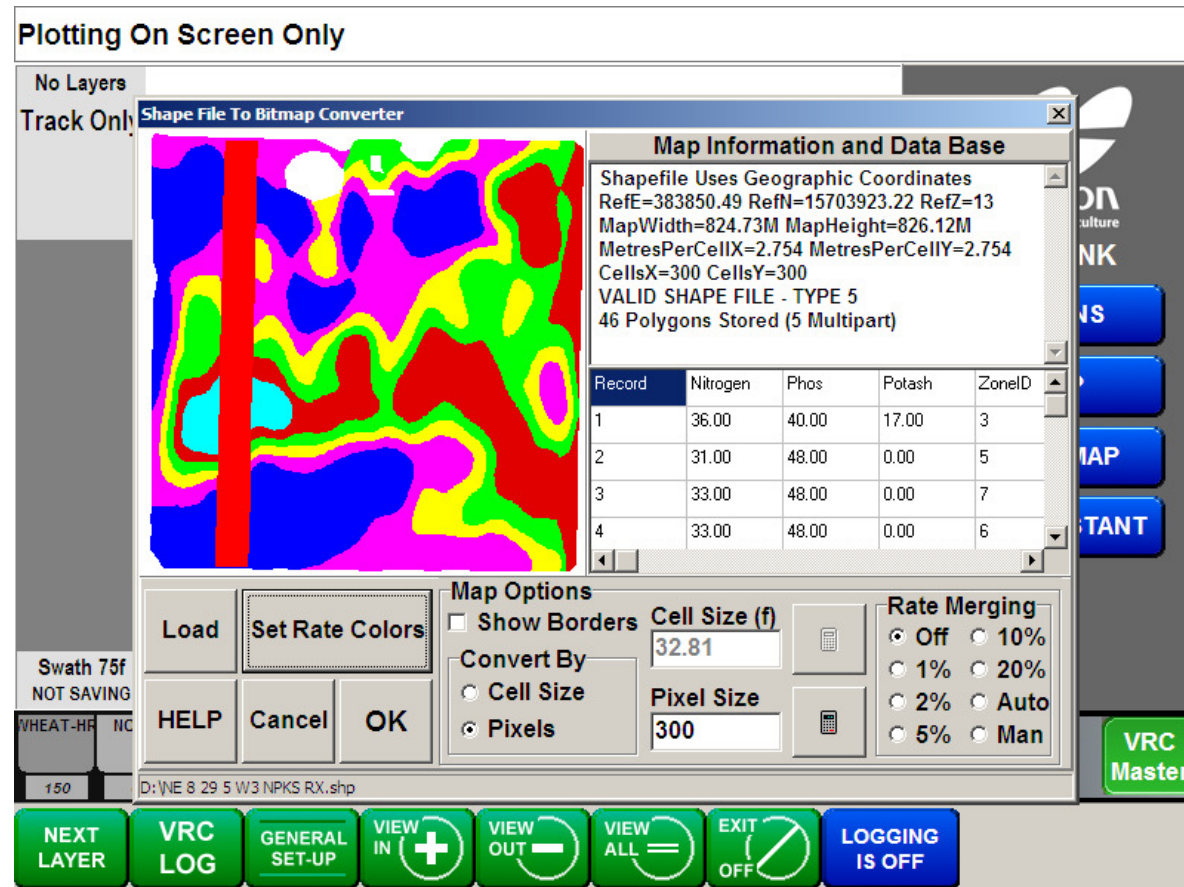NOT SAVING

WHEAT-HR   NO

150

VRC Master

NEXT LAYER   VRC LOG   GENERAL SET-UP   VIEW IN +   VIEW OUT –   VIEW ALL =   EXIT OFF   LOGGING IS OFF

**Some of the Layers will have various colors that correspond to the different rates for a product.**

Converting a Shape File

Plotting On Screen Only

No Layers

Track Only

Shape File To Bitmap Converter

Map Information and Data Base

Shapefile Uses Geographic Coordinates
RefE=383850.49 RefN=15703923.22 RefZ=13
MapWidth=824.73M MapHeight=826.12M
MetresPerCellX=2.754 MetresPerCellY=2.754
CellsX=300 CellsY=300
VALID SHAPE FILE - TYPE 5
46 Polygons Stored (5 Multipart)

Record	Nitrogen	Phos	Potash	ZoneID
1	36.00	40.00	17.00	3
2	31.00	48.00	0.00	5
3	33.00	48.00	0.00	7
4	33.00	48.00	0.00	6

Map Options
☐ Show Borders

Convert By
○ Cell Size
● Pixels

Cell Size (f)
32.81

Pixel Size
300

Rate Merging
● Off   ○ 10%
○ 1%   ○ 20%
○ 2%   ○ Auto
○ 5%   ○ Man

Load   Set Rate Colors

HELP   Cancel   OK

D:\NE 8 29 5 W3 NPKS RX.shp

Swath 75f
NOT SAVING
WHEAT-HR   NC

150

NS

MAP

TANT

VRC Master

NEXT LAYER   VRC LOG   GENERAL SET-UP   VIEW IN +   VIEW OUT −   VIEW ALL =   EXIT OFF   LOGGING IS OFF
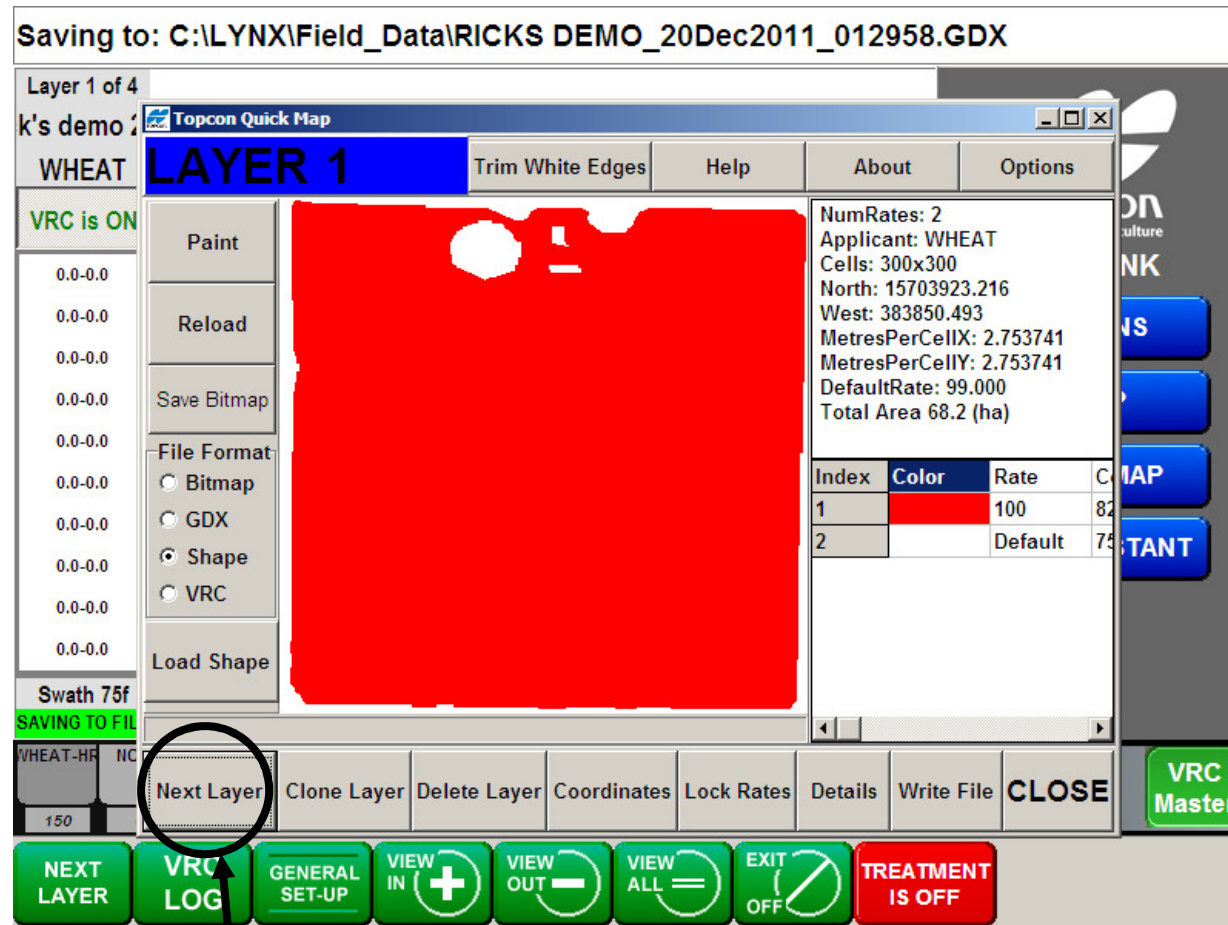

This map has a test strip across all layers to help determine the performance of the VRC Map
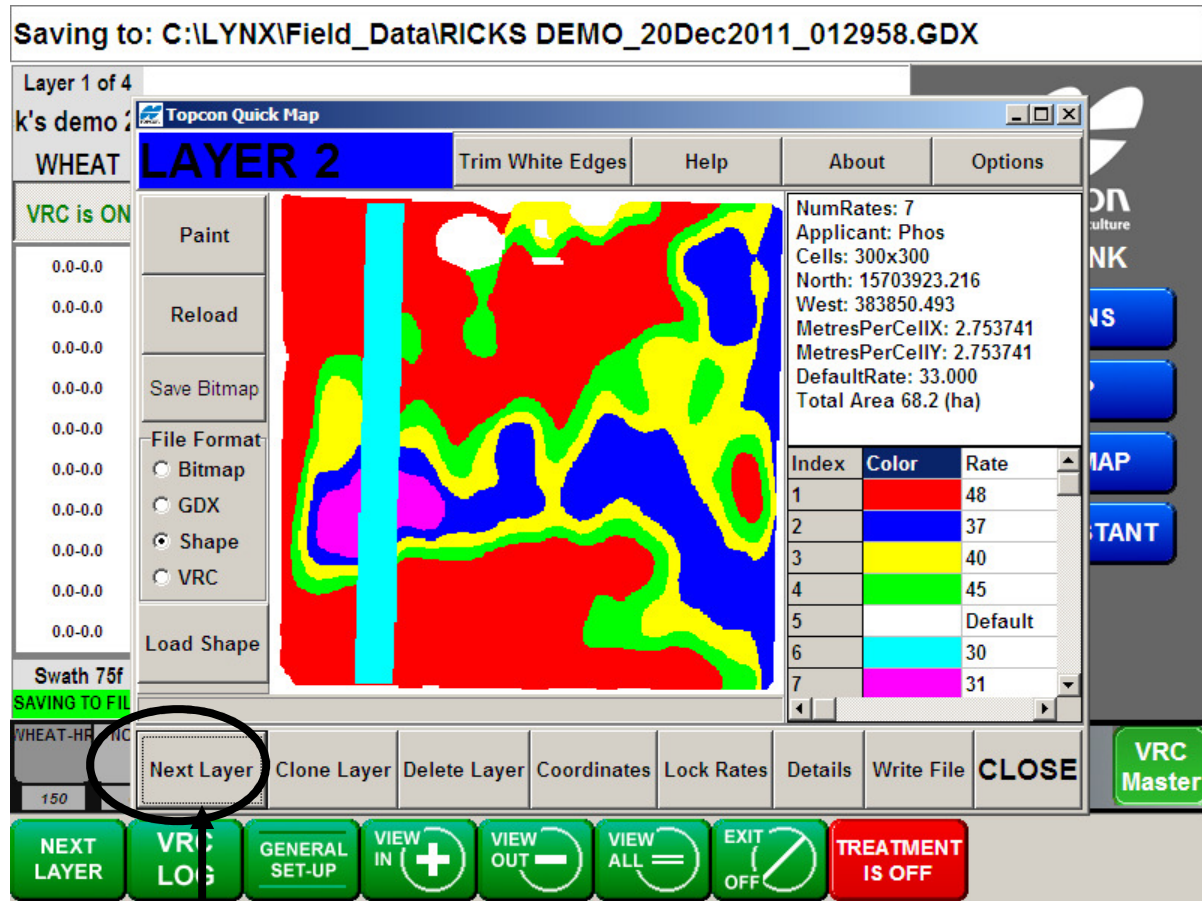
Converting a Shape File
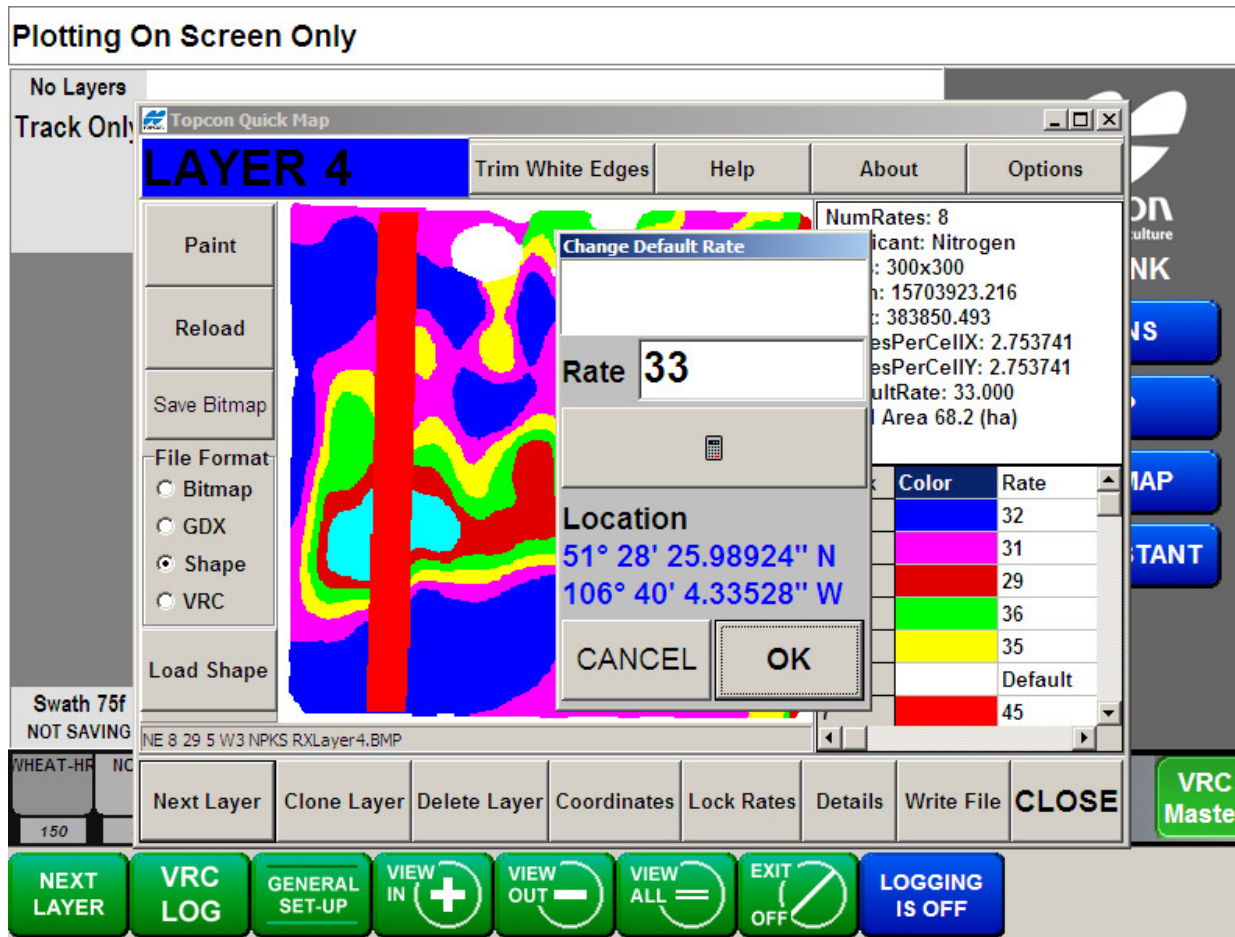
The White zones of a map would correspond to the unseeded areas or areas outside the zone. It is a good practice to enter a Default rate that you would be happy with if you lost GPS signal
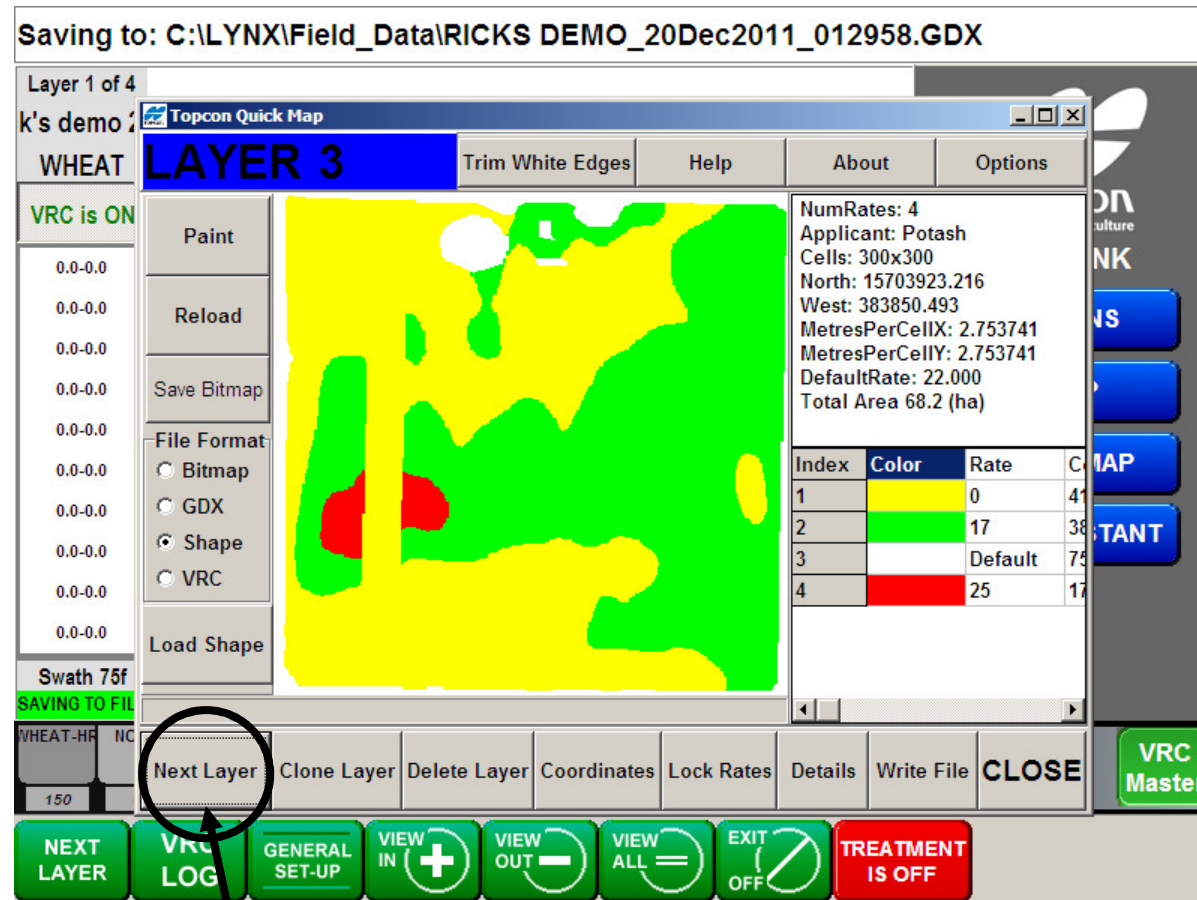
Converting a Shape File

Saving to: C:\LYNX\Field_Data\RICKS DEMO_20Dec2011_012958.GDX

Layer 1 of 4

k's demo

WHEAT

VRC is ON

Topcon Quick Map

LAYER 1 | Trim White Edges | Help | About | Options

Paint

Reload

Save Bitmap

File Format
- ○ Bitmap
- ○ GDX
- ● Shape
- ○ VRC

Load Shape

NumRates: 2
Applicant: WHEAT
Cells: 300x300
North: 15703923.216
West: 383850.493
MetresPerCellX: 2.753741
MetresPerCellY: 2.753741
DefaultRate: 99.000
Total Area 68.2 (ha)

Index	Color	Rate	C
1		100	82
2		Default	75

0.0-0.0
0.0-0.0
0.0-0.0
0.0-0.0
0.0-0.0
0.0-0.0
0.0-0.0
0.0-0.0
0.0-0.0
0.0-0.0

Swath 75f
SAVING TO FIL
WHEAT-HR NC
150

Next Layer | Clone Layer | Delete Layer | Coordinates | Lock Rates | Details | Write File | **CLOSE**

VRC Master

NEXT LAYER | VRC LOG | GENERAL SET-UP | VIEW IN | VIEW OUT | VIEW ALL | EXIT OFF | TREATMENT IS OFF
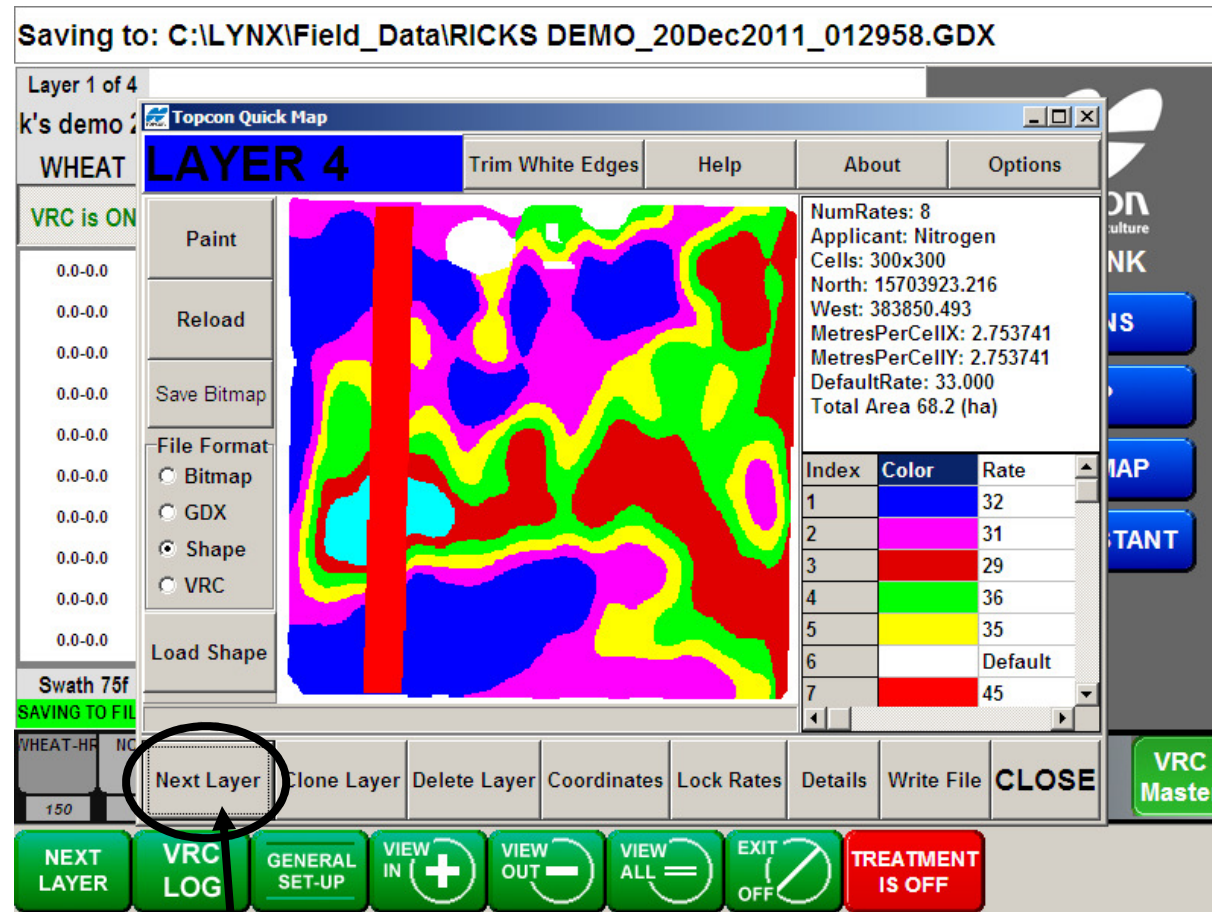
Once you have all of your layers in you should cycle through all of the Layers to make sure they are correctly entered

Converting a Shape File

Saving to: C:\LYNX\Field_Data\RICKS DEMO_20Dec2011_012958.GDX

Layer 1 of 4

k's demo :

WHEAT

VRC is ON

0.0-0.0
0.0-0.0
0.0-0.0
0.0-0.0
0.0-0.0
0.0-0.0
0.0-0.0
0.0-0.0
0.0-0.0

Swath 75f

SAVING TO FIL

WHEAT-HR   NC

150

Topcon Quick Map

LAYER 2   Trim White Edges   Help   About   Options

Paint

Reload

Save Bitmap

File Format
○ Bitmap
○ GDX
● Shape
○ VRC

Load Shape

NumRates: 7
Applicant: Phos
Cells: 300x300
North: 15703923.216
West: 383850.493
MetresPerCellX: 2.753741
MetresPerCellY: 2.753741
DefaultRate: 33.000
Total Area 68.2 (ha)

Index	Color	Rate
1	(red)	48
2	(blue)	37
3	(yellow)	40
4	(green)	45
5	(white)	Default
6	(cyan)	30
7	(magenta)	31

Next Layer | Clone Layer | Delete Layer | Coordinates | Lock Rates | Details | Write File | **CLOSE**

VRC Master

NEXT LAYER | VRC LOG | GENERAL SET-UP | VIEW IN (+) | VIEW OUT (–) | VIEW ALL (=) | EXIT ( ) OFF | TREATMENT IS OFF

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Once you have all of your layers in you should cycle through all of the Layers to make sure they are correctly entered
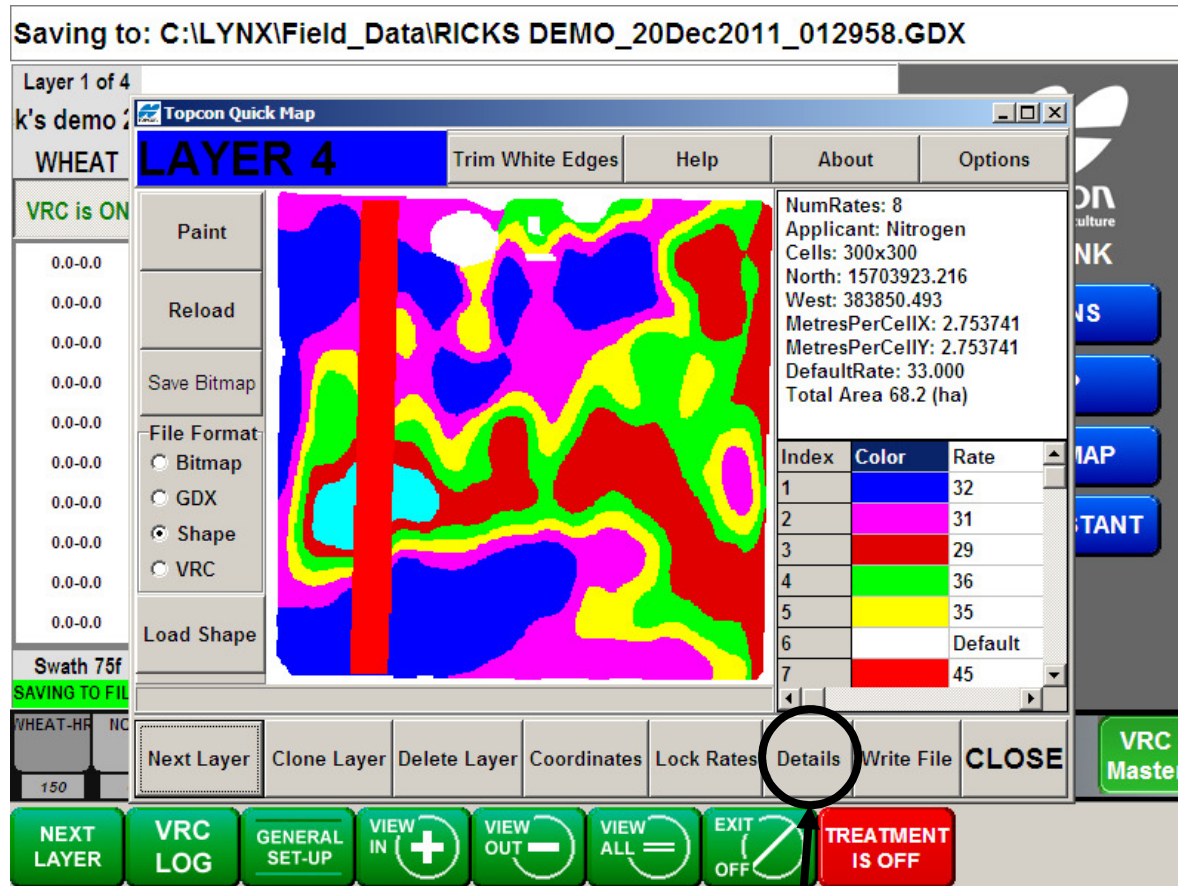
Converting a Shape File

Once you have all of your layers in you should cycle through all of the Layers to make sure they are correctly entered

Converting a Shape File

Once you have all of your layers in you should cycle through all of the Layers to make sure they are correctly entered

Converting a Shape File

At some point you should press the Details tab to enter some map details

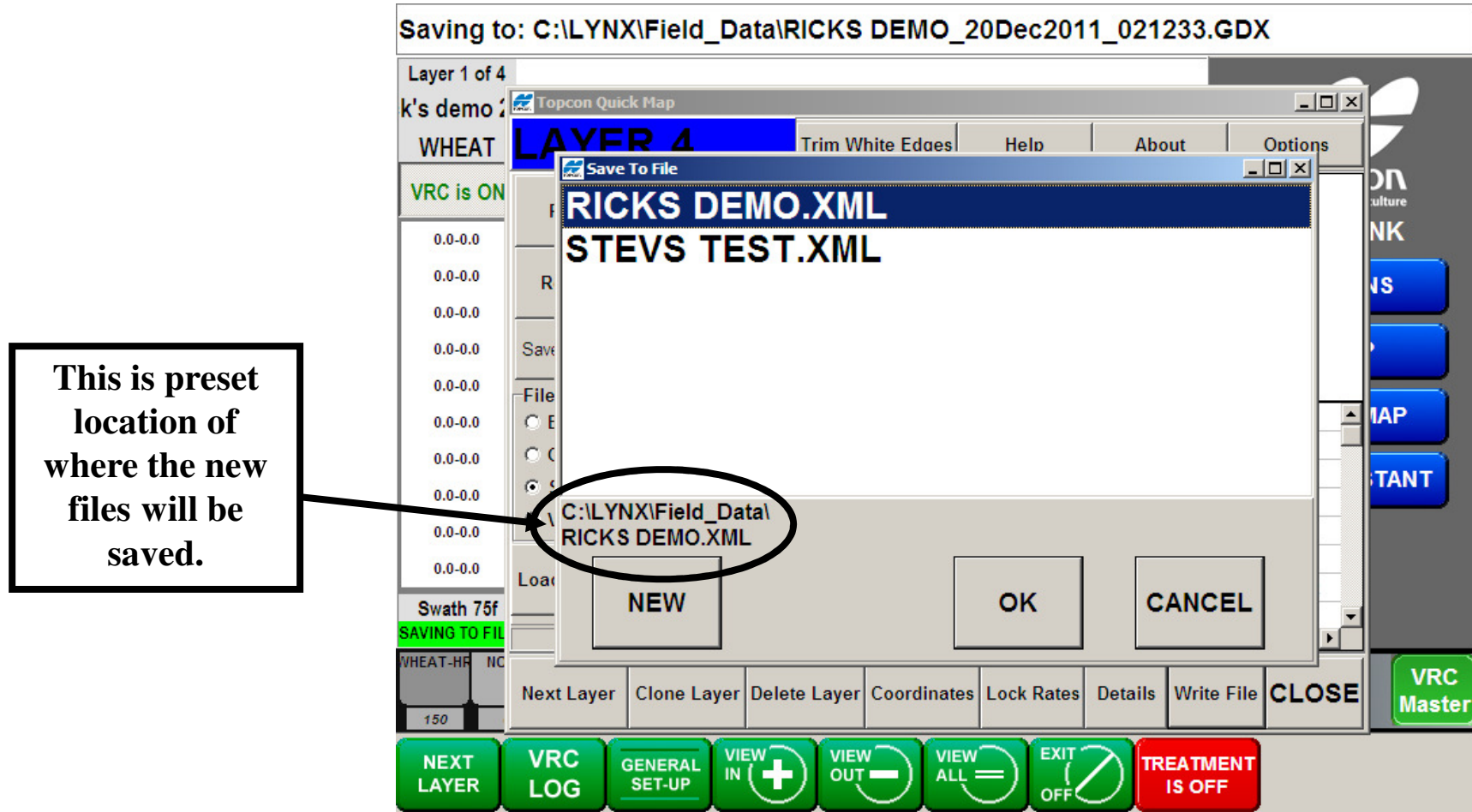# Converting a Shape File

Enter your Map details, the details on the right will carry forward for all of the layers.
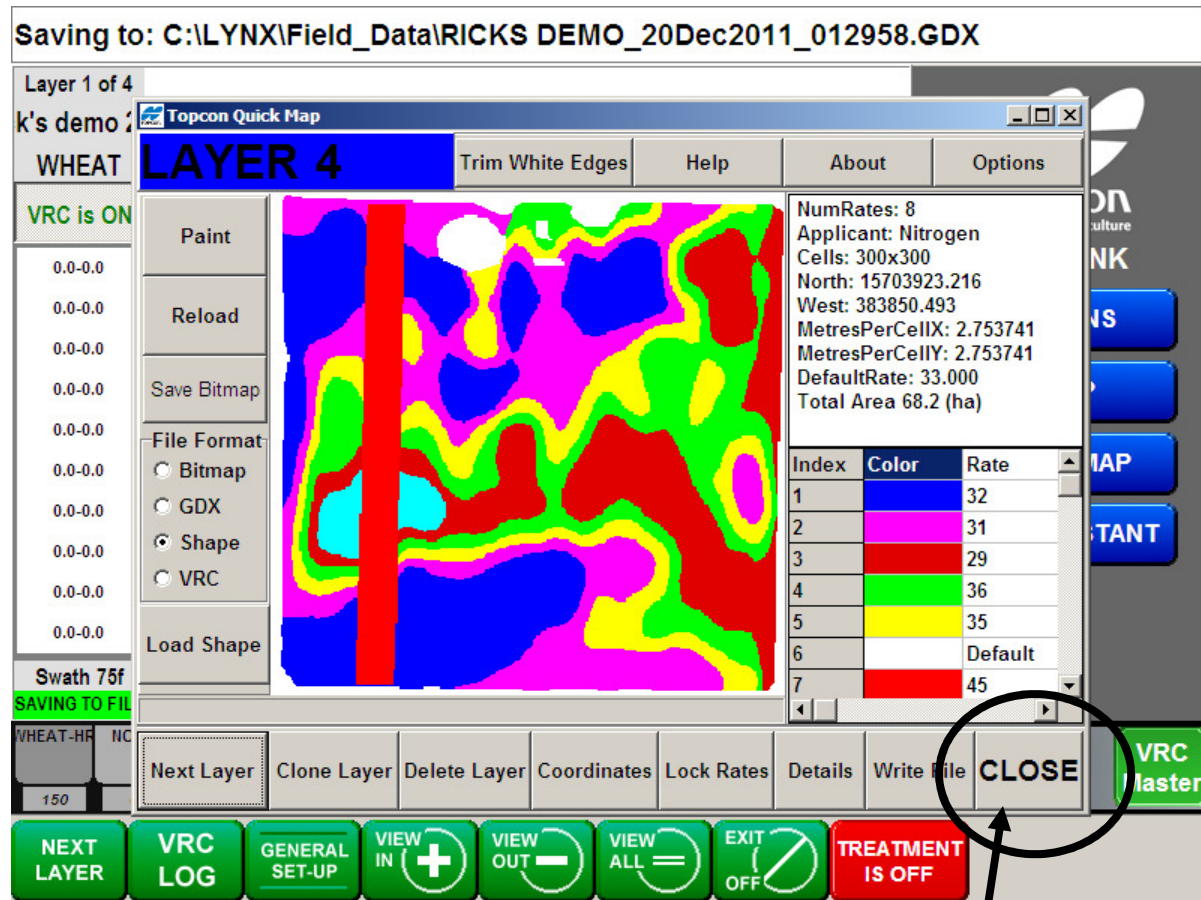
Converting a Shape File
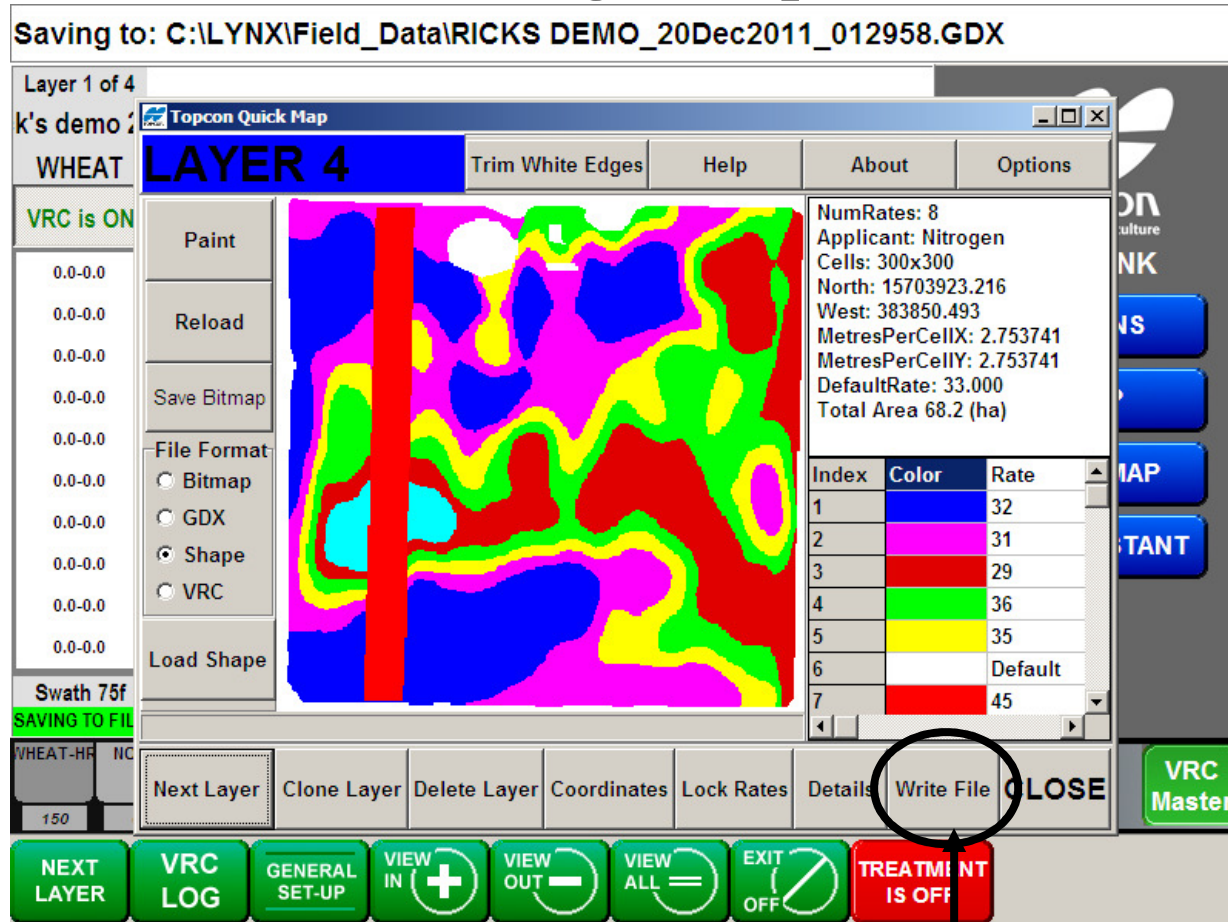
Now you will have to click on Write File to save your converted files

Converting a Shape File

Saving to: C:\LYNX\Field_Data\RICKS DEMO_20Dec2011_021233.GDX

Layer 1 of 4

k's demo

WHEAT **LAYER 4** Trim White Edges | Help | About | Options

VRC is ON

Save To File

RICKS DEMO.XML

STEVS TEST.XML

0.0-0.0
0.0-0.0
0.0-0.0
0.0-0.0
0.0-0.0
0.0-0.0
0.0-0.0
0.0-0.0
0.0-0.0

C:\LYNX\Field_Data\
RICKS DEMO.XML

This is preset location of where the new files will be saved.

NEW | **OK** | **CANCEL**

Swath 75f
SAVING TO FIL
WHEAT-HR NC

150

Next Layer | Clone Layer | Delete Layer | Coordinates | Lock Rates | Details | Write File | CLOSE

NEXT LAYER | VRC LOG | GENERAL SET-UP | VIEW IN | VIEW OUT | VIEW ALL | EXIT OFF | TREATMENT IS OFF

VRC Master

You can overwrite an existing file or create a new file then press OK

Converting a Shape File

Saving to: C:\LYNX\Field_Data\RICKS DEMO_20Dec2011_012958.GDX

Layer 1 of 4

k's demo

WHEAT

VRC is ON

0.0-0.0
0.0-0.0
0.0-0.0
0.0-0.0
0.0-0.0
0.0-0.0
0.0-0.0
0.0-0.0
0.0-0.0

Swath 75f

SAVING TO FIL

WHEAT-HR   NC

150

Topcon Quick Map

LAYER 4   Trim White Edges   Help   About   Options

Paint

Reload

Save Bitmap

File Format
○ Bitmap
○ GDX
● Shape
○ VRC

Load Shape

NumRates: 8
Applicant: Nitrogen
Cells: 300x300
North: 15703923.216
West: 383850.493
MetresPerCellX: 2.753741
MetresPerCellY: 2.753741
DefaultRate: 33.000
Total Area 68.2 (ha)

Index	Color	Rate
1		32
2		31
3		29
4		36
5		35
6		Default
7		45

Next Layer   Clone Layer   Delete Layer   Coordinates   Lock Rates   Details   Write File   CLOSE

VRC Master

NEXT LAYER   VRC LOG   GENERAL SET-UP   VIEW IN   VIEW OUT   VIEW ALL   EXIT OFF   TREATMENT IS OFF
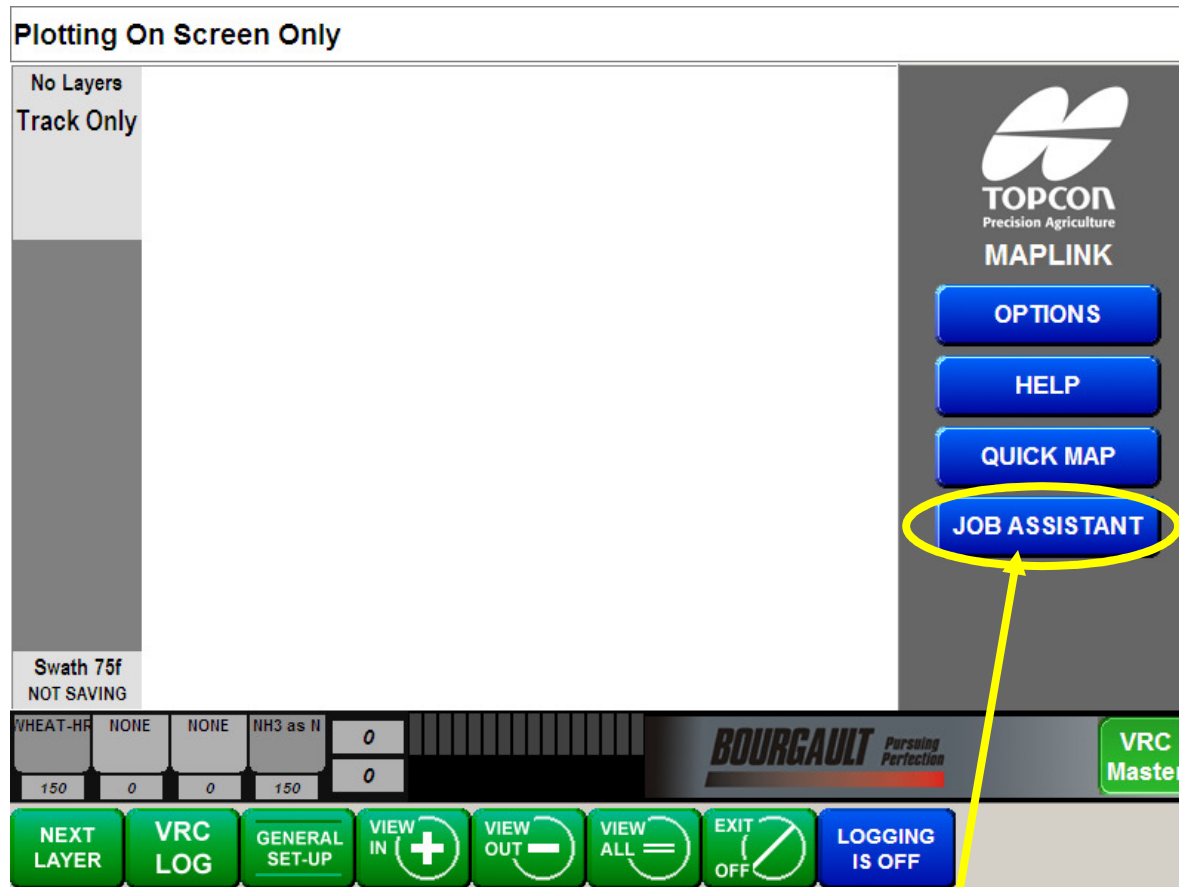
Press CLOSE to complete the process.
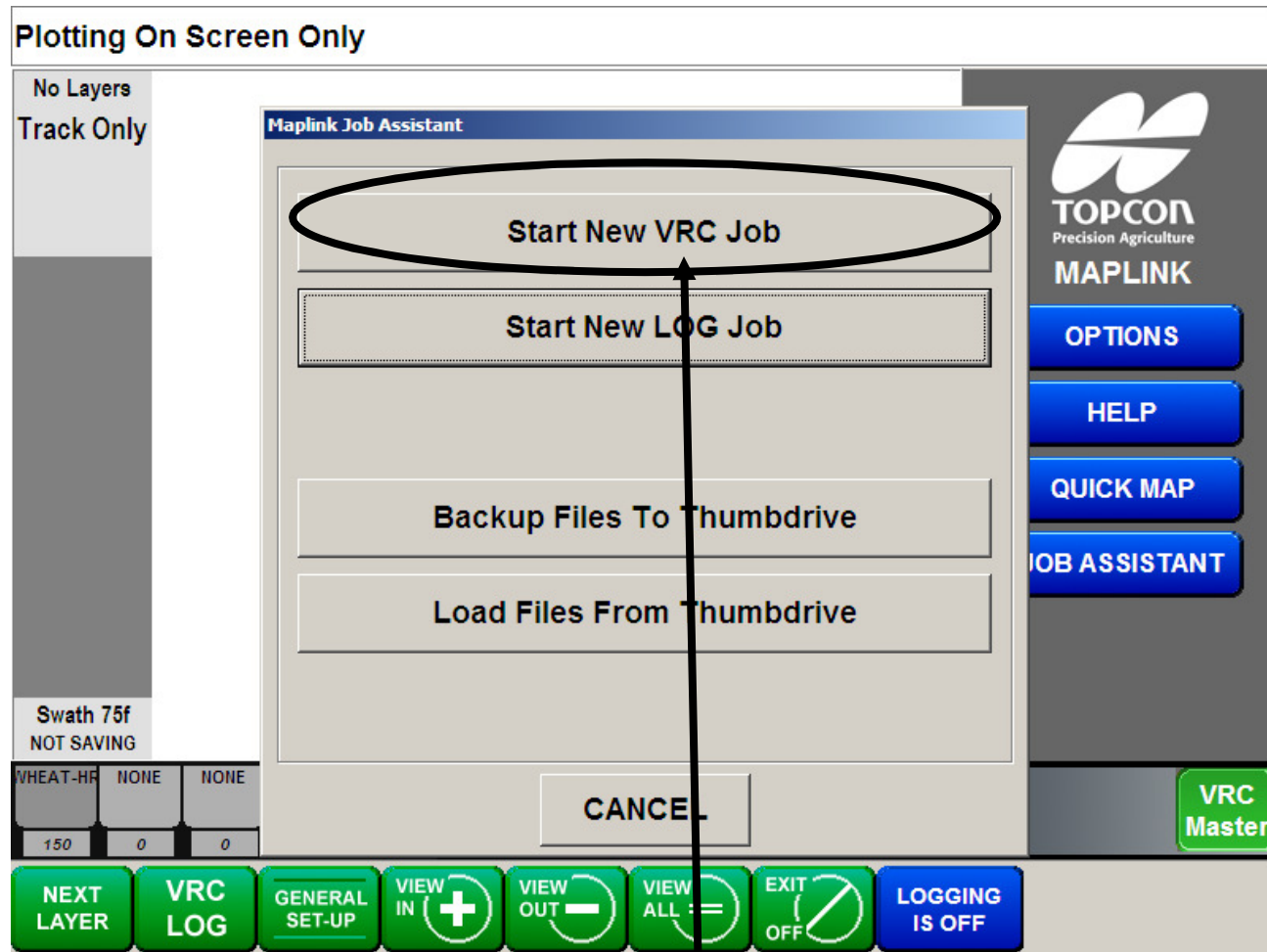
Converting a Shape File

Now you are ready to load your map. First press
JOB ASSISTANT

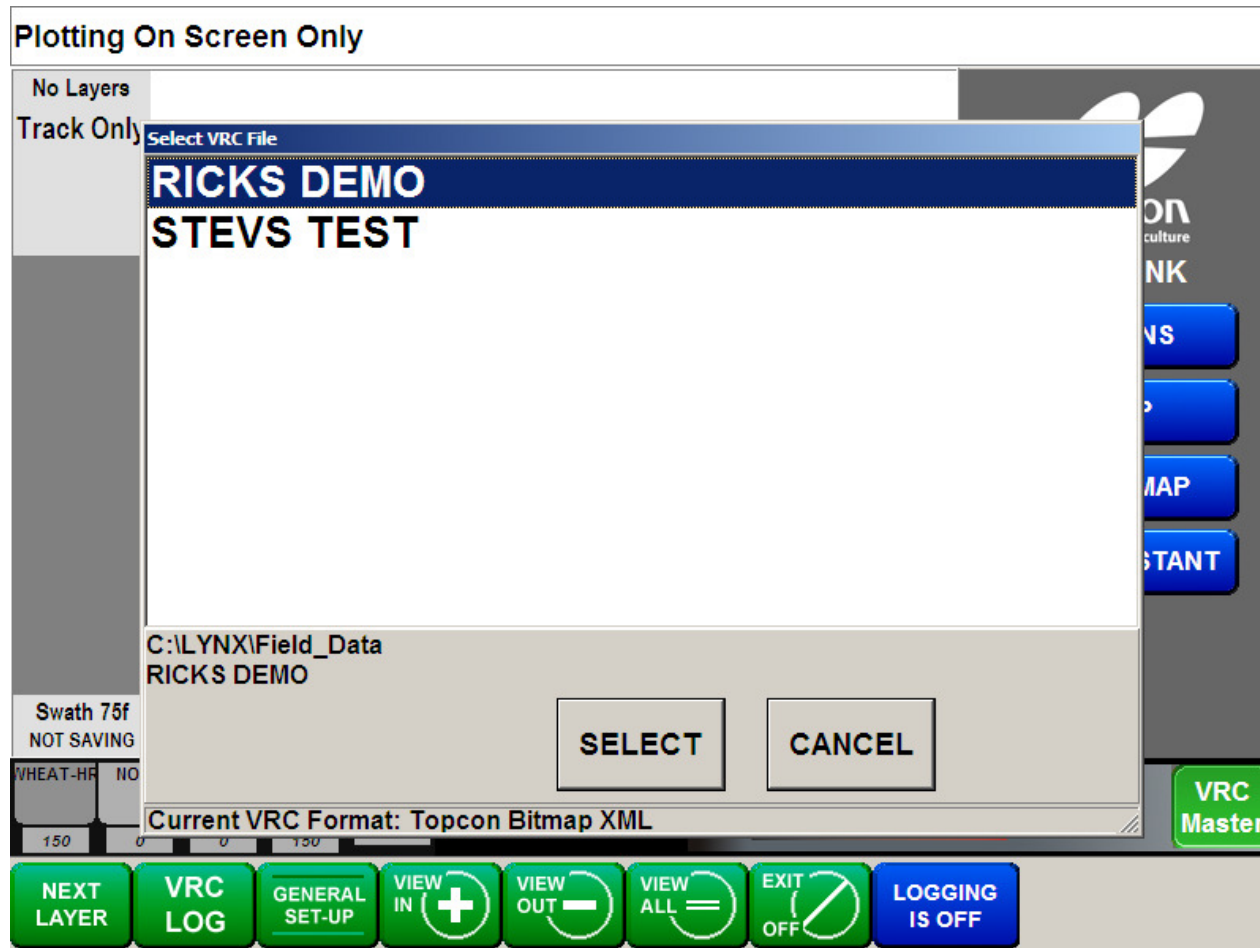# Converting a Shape File

Plotting On Screen Only

No Layers
Track Only

Maplink Job Assistant

Start New VRC Job

Start New LOG Job

Backup Files To Thumbdrive

Load Files From Thumbdrive

TOPCON
Precision Agriculture

MAPLINK

OPTIONS

HELP

QUICK MAP

JOB ASSISTANT

Swath 75f
NOT SAVING

WHEAT-HR | NONE | NONE

150 | 0 | 0

CANCEL

VRC Master

NEXT LAYER | VRC LOG | GENERAL SET-UP | VIEW IN + | VIEW OUT − | VIEW ALL = | EXIT OFF | LOGGING IS OFF

Press Start New VRC Job

Converting a Shape File

Plotting On Screen Only

No Layers
Track Only

Select VRC File

RICKS DEMO
STEVS TEST

C:\LYNX\Field_Data
RICKS DEMO

SELECT   CANCEL

Current VRC Format: Topcon Bitmap XML

NS

MAP

STANT

VRC
Master

Swath 75f
NOT SAVING

WHEAT-HR   NO
150   0   0   150

NEXT LAYER | VRC LOG | GENERAL SET-UP | VIEW IN | VIEW OUT | VIEW ALL | EXIT OFF | LOGGING IS OFF

Pick the Map you wish to load then press SELECT

Converting a Shape File

Plotting On Screen Only

No Layers
Track Only

Verify VRC File RICKS DEMO.XML

RICK
Creator

CUSTOMER
Customer Name

XYZ INC
Farm Name

RICKS HOME QUARTER
Field Name

2012 DEMO
Note

acre
Area Unit

OK   CANCEL
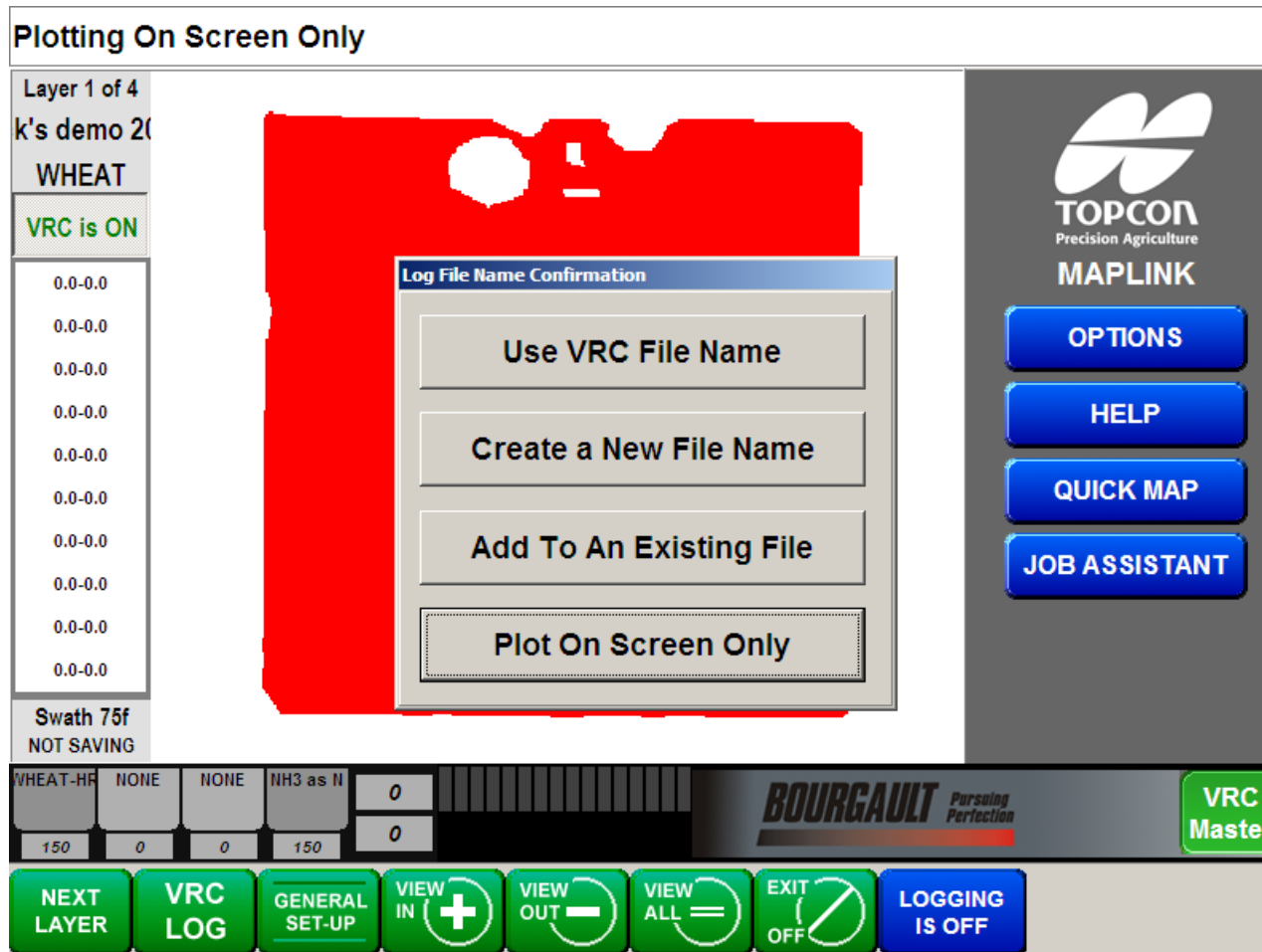
VRC Format: Topcon Bitmap XML

TOPCON
Precision Agriculture
MAPLINK

OPTIONS

HELP

QUICK MAP

JOB ASSISTANT

Swath 75f
NOT SAVING

WHEAT-HR NONE NONE NH3 as N
150 0 0 150 0

VRC Master

NEXT LAYER | VRC LOG | GENERAL SET-UP | VIEW IN | VIEW OUT | VIEW ALL | EXIT OFF | LOGGING IS OFF

Verify the map details then press OK

Converting a Shape File

Plotting On Screen Only

Layer 1 of 4
k's demo 20
WHEAT
VRC is ON

0.0-0.0
0.0-0.0
0.0-0.0
0.0-0.0
0.0-0.0
0.0-0.0
0.0-0.0
0.0-0.0
0.0-0.0

Swath 75f
NOT SAVING

Log File Name Confirmation

Use VRC File Name

Create a New File Name

Add To An Existing File

Plot On Screen Only

TOPCON
Precision Agriculture
MAPLINK

OPTIONS

HELP

QUICK MAP

JOB ASSISTANT

WHEAT-HR | NONE | NONE | NH3 as N | 0
150 | 0 | 0 | 150 | 0

BOURGAULT Pursuing Perfection

VRC Master

NEXT LAYER | VRC LOG | GENERAL SET-UP | VIEW IN | VIEW OUT | VIEW ALL | EXIT OFF | LOGGING IS OFF

Pick one of the above.

Converting a Shape File

You have loaded your map and are ready to go.