

NVZ Recording System

Reference Manual

Version 10.0

© 1998-2018 formdata Limited

Copyright Information

© 1998-2018 Farmdata Limited Westertown Rothienorman Aberdeenshire AB51 8US

The information contained in this manual and the accompanying software program are copyrighted and all rights are reserved by Farmdata Ltd.

Farmdata Ltd reserve the right to make periodic modifications of this product without the obligation to notify any person or entity of such revision. Copying, duplicating, selling or otherwise distributing any part of this product without the prior written consent of an authorised representative of Farmdata Ltd are prohibited.

Information contained in this document is subject to change without notice and does not represent a commitment on the part of Farmdata Ltd. The software described in this manual is furnished under a license agreement. The software may be used or copied only in accordance with the terms of this agreement.

Limitations of Liability

In no event will Farmdata Ltd or any other person involved in the creation, production or distribution of the Farmdata software be liable to you on account of any claim for any damages, including any lost profits, lost savings, or other special, incidental, consequential, or exemplary damages, including but not limited to any damages assessed against or paid by you to any third party, arising out of the use, inability to use, quality or performance of such Farmdata software and user manual, even if Farmdata Ltd or any such other person or entity has been advised of the possibility of such damages, or for any claim by any other party. In addition, Farmdata Ltd or any other person involved in the creation, production, or distribution of Farmdata software shall not be liable for any claim by you or any other party for damages arising out of the use, inability to use, strict liability to use quality or the negligence of Farmdata Ltd or other tort, branch of any statutory duty, principles of indemnity or contribution, the failure of any remedy to achieve its essential purpose, or otherwise.

This does not affect your statutory rights.

PREFACE

This document describes how NVZdata for Windows the NVZ Recording System produced by Farmdata Limited, operates. The program runs on Windows 2000 or above and is written in Visual Basic.net. It will not run on Windows 95 or Windows 98

'Windows 2000', 'Windows XP', 'Windows Vista' 'Windows 7' 'Windows 8' and 'Visual Basic.net' are registered trademarks of Microsoft Corporation Inc.

Related Documents.

NVZdata ; Getting started.

Contents

Introduction.		5
I. 1.	What the System does	5
I. 2.	The information it needs	5
I. 3.	The information it can provide	5
I. 4.	Finding your way around	6
I. 5.	If you get Stuck	6
I. 6.	Using this Manual.	7
Chapter 1	Maintenance	8
1.	Business Parameters	9
1.	1. Business	9
	1. 1. 1. Harvest	10
1.2.	Area Codes	11
1.3.	Crop Codes	12
1.4.	Holdings	15
1. 5.	Varieties	16
Chapter 2.	NVZ	17
2.1.	Adjustments	17
2. 2.	Excreta Code	17
2.3.	Excreted Nitrogen	18
2.4.	FYM & Slurry Codes	19
2. 5.	FYM & Slurry Production	20
2. 6.	Grassland Management	21
2.7.	Livestock Manure Types	22
2. 8.	Livestock Manure Codes	23
2. 9.	Organic Manure Movements	24
Chapter 3	Field Records	25
3.1.	Create a New Field	25
3.2.	Create a New Sub-Field	
	3. 2. 1 Soil Analysis	28
	3. 2. 2. Limings	29
	3. 2. 3. Eelworm	30
	3. 2. 4. Crops	31
	3. 2. 5. Operations	33
	3. 2. 6. Manure	34
Chapter 4	Field Events	
4.1.	Allocation of Crops	
4. 2.	Eelworm Test	
4.3.	Liming	
4.4.	Soil Analysis	40
4. 5.	Split a Field	41
Chapter 5	Field Operations	
5.1.	New Operations	
5.2.	One Crop Operation	
5.3.	Manure Operations	
Chapter 6	Stock Records	
6.1.	Stock	49

6. 2.	Analysis	
6. 2.	Receipts	51
Chapter 7	Reports	
7.1.	Field Reports	54
7.2.	Stock Reports	
7.3.	Code Lists	
7.4.	NVZ Reports	60
	7. 4. 1. Spreading Land, Field Loading. (Table 1)	61
	7. 4. 2. Average Annual Stocking Record (Table 3)	
	7. 4. 3. Nmax for Arable Crops (Table 8)	
	7. 4. 4. Livestock Manure Applications (Table 9)	63
	7. 4. 5. Nmax for Grassland (Table 10)	
	7. 4. 6. Field Record Sheet (Table 11)	64
	7. 4. 7. Annual Fertiliser Inventory (Table 12)	65
	7. 7. 9. Nmax for WOSR (Table 16)	66
	7. 7. 10 Slurry Production (Table A)	66
	7. 4. 11 Poultry Manure (Table N)	67
	7. 4. 12 FYM Production (Table Q)	67
7. 6.	Selective Reporting	
Appendix A		

I. 1. What the System does

Welcome to NVZdata for Windows. The program described in this manual is one of the Farmdata family of computerised management information systems for agricultural businesses.

NVZdata uses the power of a computer to record and organise the complex information which accumulates during a growing season and present it in an easy to read format.

Once the information is entered it can be edited at any time. The full information is retained for all time or until **you** decide to delete it.

I. 2. The information it needs

From the recording point of view, the NVZdata system requires no more daily input than you would enter into manual field recording sheets.

Initially there is a bit of work involved in setting up the system with stock, crop, variety and field information unique to your farm.

Day to day entry of stock purchased and the recording of usage on the fields will produce all of the basic information you will require thereafter.

Operating at this level the system is simply a stock record and field costing system. You can extend this further if you wish. Entry of observations will give you a field diary. Any number of soil sample results, limings, and eelworm test results can be stored for each field.

I. 3. The information it can provide

Run at its simplest the system will provide the information needed to for the NVZ regime.

The reporting flexibility is particularly useful. Any information held on a field record can be produced in report formats you can create yourself.

Full Historical information is held in complete detail. There is no summarising in a History section. All soil test, liming and eelworm test results are retained for reference.

I. 4. Finding your way around

The program is written in 'Microsoft Visual Basic.net' to run in the 'Microsoft Windows' operating system. This gives it all the flexibility and function now available with this type of programming. It is designed to be used with the mouse and to have the minimum of keyboard input.

Clicking into one option on the screen will often take you to another screen with further options. You may need to take time at first to find out where everything is. If you go into the wrong option, simply exit out again and you will be back to the previous stage.

Within a screen you should use the Tab Key to move between data fields, not the return key. Shift + Tab goes back through the fields.

If a field has a box with a down arrow at the end, it has a predefined list from which to pick. Once in the field you can scroll down the list and select the required item. Alternatively type the first letter of the item you wish, this will give you the first item with this initial letter. Press the same letter again to move to the next item on the list with that initial letter. New items can be added to lists by clicking on the **Add button** beside the list field.

I. 5. If you get Stuck

Something somewhere is sure to catch you out. It is often just a matter of taking a step back to the previous section and starting again.

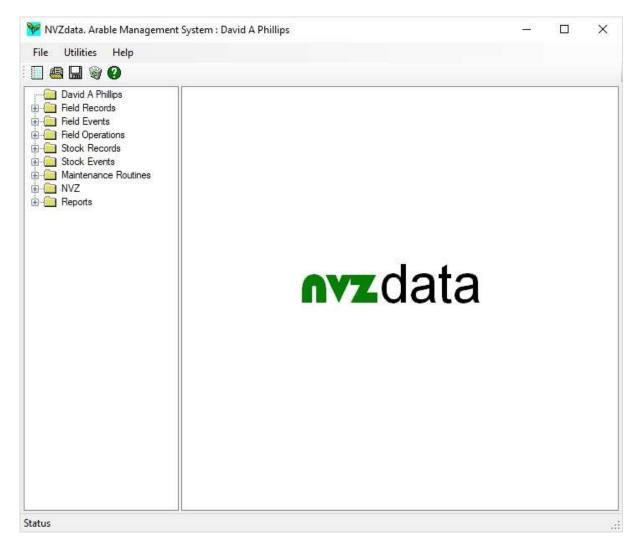
Switching the machine off is never a good option but it is unlikely that you would cause real damage if you did. You are likely to lose any unsaved entries which will have to be re-entered.

Should you get totally stuck you can call up Farmdata's help line which is manned during office hours for assistance. Outwith office hours Farmdata can be contacted by fax (01467671448), e-mail (<u>support@farmdata.co.uk</u>) or through our website (www.farmdata.co.uk).

It is absolutely necessary that you take regular backups of your work. You should keep at least three sets of backups and use them in rotation. Set A should be used on Day 1, Set B on Day 2, Set C on Day 3 and on day 4 you should return to Set A. Should all else fail Farmdata can resurrect your system from your backup if it is correctly done.

Each of the sections shown in the Screen below is explained in an individual chapter. They are headed:

- 1. Maintenance
- 2. NVZ
- 3. Field Records
- 4. Field Events
- 5. Field Operations
- 6. Stock Records
- 7. Reports

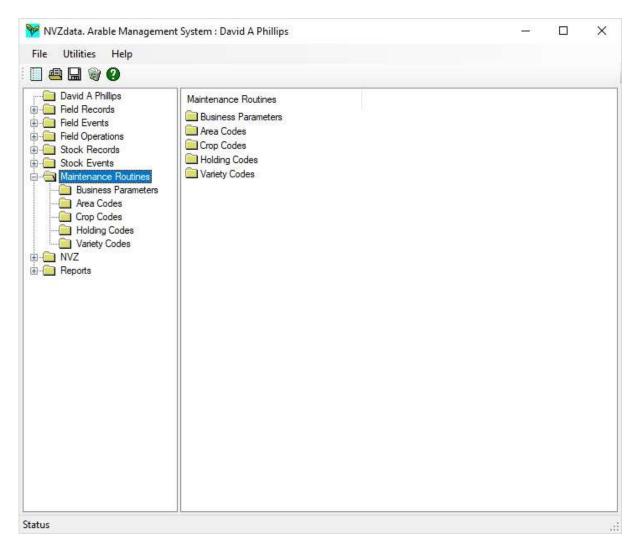


Each of these sections can contain a number of further options, each of these is described in a numbered section within the chapter. Each option available within a section is described in the order in which it appears. Each option is listed then its operation described.

Chapter 1 Maintenance

This section contains the basic information needed to set up and run the system. Some adjustment will be required here when the system is started to tailor it to your requirement.

Most of these sections can be updated whilst entries are being made. The **Add Button** can be used in most data entry routines to create new items as required.



All of the lists can be edited to meet your requirements. It is not advisable to delete an item once you have used it in an entry. This will leave blanks in your historical records. It is easier, where possible, to make the item "non-Current".

1. 1. Business

<u>B</u> usiness H <u>a</u> rvest				
Name:	High End Farm			
Address:	Northfield			
	Kinross	1		
	Angus]		
Post Code:	KY32 50S			
Telephone:				
Fax:				
E-Mail:				
	62/101/0019			
Holding Number:				
Holding Number: Password:				

A. Business Name, Address and Telephone Number:

The trading name, address and contact telephone number of the business.

B. Holding No.

The official Ministry of Agriculture code for the principle holding of this business.

C. Password

Used to access the business when entered here.

Business Parameters	K.)
Business Harvest				
Units:) Hectares: 🔘	Acres:		
Harvest Year:	2017			
Farm Size:	334.18			
Cropped Area:	0.00			
☑ Enable Stock C	onitor.			

A. Units

This sets the system to work either in Imperial or Metric measures. Acres for Imperial or Hectares for Metric.

B. Harvest Year

This sets the default year for entering and extracting information. It is generally set to the crop year you are currently entering information for (i.e. 2017 for crops to harvested in 2017). It should be reset each year when you move forward to the next crop. It can be over-ridden for individual entries or reports as required.

C. Farm Size / Cropped Area

Total farm area and total cropped area of the business.

D. Enable Stock Control.

When this is set to **Yes** the system gives full Stock traceability. It will record when and from whom stock was purchased and show where and when it was used. If set to **No** only current available quantities of stock can be listed.

Area Codes					<u></u>	
Code:	T		~			
Description:	Tu	innels				
Omit this A	rea Code fro	m Occurrence	es:			

These are the units which can be used as 'Secondary areas' within a field. They are not generally used in field scale agriculture but rather in horticulture where detailed costing on a particular scale is required.

To create a new area, click **New**, fill in the code you wish, Tab to Description Field, fill in Description and click **Save**. You may not delete a code which is already in use.

1.3.

Code:	WW	~			
Description:	Winter Whe	eat			
Туре:	Cereals	~			
Residue Group:	1	~			
Standard Yield:	8.00	Tonnes / Ha	:		
Expected Yield:	10.00	Tonnes / Ha	÷		
Additional Nitrogen for Yields > Standar	20.00 d:	Kg / Ha:			
Omit this Crop C	ode from Occurr	ences:			

This is the list of crops you grow on your farm. The program has a pre-set list. This is based on the list in the IACS explanatory booklet. This can be changed to your own specification if you wish.

To add a new crop, click New and enter the code, description and crop class (crop class relates to IACS classification). Then click Save.

Туре	Indicates the IACS Classification of the crop.
Residue Group	This used for NVZ reporting and calculation. Set the residue group of this crop to applied to the following crop.
Standard Yield	Use in NVZ calculations. This is the standard yield figure for the crop as set in the NVZ guidelines. Applies to cereals and WOSR.
Expected Yield	Your predicted yield for the crop based on historic information. This can be varied in individual field records. Applies to cereals and WOSR.
Additional Nitrogen	Where the Expected Yield differs from the Standard Yield this is the variation to be applied to the Standard Nitrogen figure. Entered as Kg of N per Ha.

The following do not apply to forage crops. Forage crop values are set in the NVZ section under grassland management.

Autumn N

The value of N which may be applied in the Autumn to a particular crop as set in the NVZ guidelines. Based on Soil Type and Residue Group of previous crop.

rops	Autumn N	Spring N	Adjustments	Winte	r Rain			
Cod	le:	WOS	R					
Des	cription:	Winte	er Oilseed Rape					
Not	e: Figures bel Soil Type Humose S		09 onwards; Group	o 1 30	Group 2 20	Group 3	Group 4	Grou
ľ	Other Min			30	20	10	0	
	Peaty Soi	ls		30	20	10	0	
	Sands			30	20	10	0	
	Sandy Lo	ams		30	20	10	0	
	Shallow S	ioils		30	20	10	0	
			ALC:					diameters in
<								>

Spring N

The Value of N which may be applied in the spring to a particular crop as set in the NVZ guidelines. Based on Soil Type and Residue Group of previous crop.

Cod	e:	WOS	R					
Des	cription:	Winte	er Oilseed R	ape				
	Soil Type Humose Soil	5	G	iroup 1 120	Group 2 110	Group 3	Group 4	Grou
1	Other Minera	Call Inc.		200	110	180	140	
	Peaty Soils			80	70	60	40	
	Sands			200	190	180	140	
	Sandy Loam	s		200	190	180	140	
	Shallow Soils	3		200	190	180	140	
<								>

Adjustments

These are variations which can be applied to the standard N figures for a particular crop as set in the NVZ guidelines. Based on Soil Type and Residue Group of previous crop. This is usually associated with the intended market.

ops	Autumn N	Spring N	Adjustments	Winte	r Rain			
Cod	le:	WW						
De	scription:	Winte	ar Wheat					
Not	e: Figures belov Adjustment Milling		09 onwards: Grou	р 1 40	Group 2 40	Group 3 40	Group 4 40	Grou
	and the second se							
<								>

Winter Rain

Adjustment which may be applied to standard nitrogen for high winter rainfall for a particular crop as set in the NVZ guidelines. Based on Soil Type and Residue Group of previous crop.

Code	¢.	WW					
Desc	ription:	Winter Whe	at				
•	Soil Type Humose So	ils	Group 1	Group 2	Group 3 10	Group 4	Grou
			100103 (* 0 %).	1.1.7.1.1.7.1.7.7.7.7.7.7.7.7.7.7.7.7.7	Sector Inclusion	Constraint Constraint	Grou
P	Other Miner		0	10	10	10	
-							
	Peaty Soils	i	0	10	10	10	
l I	Sands		0	10	20	20	
	Sandy Loan	ns	0	10	20	20	
		s	0	10	20	20	
	Shallow Soi		1				
•	Shallow Soi						

Code:	EN ~		
Description:	North End		
Holding Number:	67/001/0004		
Region:	Scotland ~		
Height	100		
Omit this Holding	Code from Occurrences:		

Holdings within a business can be identified. They are necessary for NVZ purposes. Each field on the farm can be allocated to a holding thus allowing operations to be done on a specific holding and reports to be formulated for each holding if required.

Height is required for NVZ purposes.

Cod	e:	EN				
Des	cription:	North End				
	Year	Winter	Spring	Summer	Comment	
	2015	380	180	440		
	2016	380	180	440		
	2017	460	180	440		
<						>

Rainfall figures are required for NVZ purposes. These can be taken from the standard tables issued in the NZV guidelines.

Winter Wheat		
WIRLCH WIRCH	∽ Add:	
Cereals ~		
de from Occurrences:		
0	Cereals ~	

The list of varieties you grow on the farm. The system comes preloaded with recommended variety lists for cereals and oilseeds. Again, the pre-set list can be edited as with **Crops** above. Each variety is related to a crop and IACS class.

Chapter 2. NVZ

These lists are required as background for NVZ reporting. They can be amended as required.

2.1.	Adjustments
------	-------------

Code:	BREAD	~			
Description:	Breadmaking				
Omit this Unit (Code from Occurrence	95:			

This is a list of circumstances that may cause the amount of nitrogen to be amended when determining the Required Nitrogen in the Fertiliser and Manure Plans. These include specific end markets such as Breadmaking for Wheat or Malting for Barley. Specific disease situations or crop types may also require adjustment.

2. 2. Excreta Code

Code:	B11 ~		
Description:	Beef Suckler Cow (over 500kg)		
Туре:	Grazing Livestock \checkmark		
Occupancy:	100.00 %:		
Nitrogen:	83.00 kg / year:		
Omit this Excre	eta Code from Occurrences:		

This contains the typical excreta production for different classes of livestock in a year in units of nitrogen.

This section contains the detail of the livestock on the holding. From these numbers, and the tables in the NVZ code lists, the Nitrogen production on the farm is calculated.

	Stock Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total Animals	Average Animals	Nitrogen per Animal	Total Nitrogen
Þ	Beef Suckler Cow (over 500kg)	40	40	40	40	40	40	40	40	40	38	38	38	474	39.50	83.00	3278.5
	Steer/Heifer (for Slaughter)	40	40	20	20	0	0	0	0	0	0	0	0	120	10.00	50.00	500.00
	Steer/Heifer (3 to 13 months)	40	40	40	40	20	20	20	40	40	40	40	40	420	35.00	34.00	1190.00
	Bull for Breeding (over 25 months)	1	1	1	1	1	1	1	1	1	1	1	1	12	1.00	48.00	48.0
	Calf (up to 3 months)	0	0	0	20	39	39	20	0	0	0	0	0	118	9.83	8.00	78.6

Enter your own livestock types in the screen by selecting from the available types of livestock. These types are held in the NVZ code lists. To get a list of types, type the first few letters under Stock Unit and select from the list. Then enter the quantity under the No. of Units. The Total N is then calculated. This is the total N excreted for all the livestock in Kg/year.

2.4.

This section contains the FYM and Slurry Production per week for different classes of livestock as cubic metres.

Code:	B11	~			
Description:	Beef Suckler Co	w (over 500k)	g)]	
Туре:	Non Poultry		\sim		
Volume:	0.32	m ³ /week:			
Weeks Housed:	22				
Straw Addition Factor:	1.15				
FYM Density Value:	0.70				
Omit this Slurry Cod	e from Occurrenc	es:			

Code and Description of the type of animal are set.

Type is Poultry or Non-Poultry

Volume is the production of one animal in M³ per week.

Weeks housed is the assumed no. of weeks this type of animal will be housed. Used to calculate annual production

Straw Addition factor applied to the annual production figure to allow for the increase in volume of added bedding.

FYM Density Value.

This is used to calculate the likely FYM and Slurry production of the farm for the year.

	2016 ~						
ype:		O Poultry:					
lote:	Figures below are per Week for 2009 onward Stock Unit	No of	Amount	Weeks	Straw Addition	FYM Density	Total
_		Animals	Vanoenie	Housed	Factor	Value	Amount
Þ	Beef Suckler Cow (under 500kg)	40	.22	28	1.15	.70	404.80
	Steer/Heifer (for Slaughter)	40	.22	20	1.15	.70	289.14
	Steer/Heifer (3 to 13 months)	40	.14	28	1.15	.70	257.60
	Bull for Breeding (over 25 months)	1	.18	28	1.15	.70	8.28

Select the Year required of Click New to start a new year's calculation.

Select the type of production.

Enter your own livestock types in the screen by selecting from the available types of livestock. These types are held in the FYM and Slurry code lists. To get a list of types, type the first few letters under Stock Unit and select from the list. Then enter the quantity under the No. of Units. The standard figures are entered for the remainder of the entries on the line and the total production amount calculated.

Slurry production is calculated in the same way.

	2016 ~					
Туре	: O FYM: O Slumy: O	Poultry:				
Note	: Figures below are per Week for 2009 onwards:					
	Stock Unit	No of Animals	Amount	Weeks Housed	Total Amount	
	Dairy Cow (over 9000 litre milk yield)	230	.45	27	2794.50	
•	Dairy Heifer Replacement (13 months to first	50	.28	27	378.00	

This gives the volume of slurry produced per week.

Description:	2 or 3 Cut Silage	+ Grazing			
Site Class:	Nitrogen:	Site Class:	<u>Nitrogen:</u>		
1:	310	4:	280		
2:	300	5:	270		
3:	290				
Omit this Mana	agement Option from Occ	urrences:			

This section holds the detail for different management options applied to grassland.

Code and Description. The different Management option available for Grassland

Site Class and Nitrogen. The standard maximum values of Nitrogen which may be applied to grass under this management regime adjusted for site class values.

This section holds the different types of manure.

Code:			
Description:	Pig Slumy]	
Adjustment for Aut	umn Applications on Grassland and Winter Oilseed Rape:		
Humose, Peaty an	d Other Mineral Soils: 5		

Adjustments can be set for autumn nitrogen application for some soil types.

Cod	e:	1			
Des	cription:	Pig Slumy			
Note	e: Figures below ar	e the 'default' values	mn or Winter Applications:		
	Date	Value		1	1
Þ	01/01/2010	25.00			
	01/01/2013	45.00			
	01/01/2015	50.00			
					1

Default efficiency values for autumn and winter applications are set. These over-ride other efficiency values.

This section contains detail of all the different type of Slurry and FYM available for application.

Code:	101 ~]		
Description:	Cattle FYM			
Туре:	Solid Manure	~		
Incorporation Time:	Not Incorporated	~		
Total Nitrogen:	6.0			
Dry Matter:	25.0			
Omit this Livestoc	Manure Code from Occu	urrences:		

Total Nitrogen is the Kgs of N per tonne or M^3

Details contains the Percentage of the nitrogen available to the crop based on the season of application on the crop.

Description:		Cattle FYM					
Note	: Figures below	v are for 2009 or	iwards:				
	Soil Type		Spring	Summer	Autumn	Winter	
+	Humose Soi	ls	10	10	10	10	
	Other Miner	al Soils	10	10	10	10	
	Peaty Soils		10	10	10	10	
	Sands		10	10	10	10	-
	Sandy Loan	ns	10	10	10	10	
	Shallow Soil	S	10	10	10	10	

	Date	Manure	Quantity	Supplier
•	12/03/2015	Broiler/Turkey Litter, Stored Uncovered - [Over 2	600	
	28/04/2016	Broiler/Turkey Litter, Stored Uncovered - [Over 2	500	Oaklands Egg Producers
	09/07/2016	Broiler/Turkey Litter, Stored Uncovered - [Over 2	150	Oaklands Egg Producers
	19/09/2016	Broiler/Turkey Litter, Stored Uncovered - [Over 2	70	Oaklands Egg Producers
	26/11/2016	Broiler/Turkey Litter, Stored Uncovered - [Over 2	65	Oaklands Egg Producers
	09/01/2017	Broiler/Turkey Litter, Stored Uncovered - [Over 2	65	Oaklands Egg Producers
	02/03/2017	Broiler/Turkey Litter, Stored Uncovered - [Over 2	64	Oaklands Egg Producers

This section records the movements on or off the holding of organic manures.

Enter the Date of the movement.

To get a list of types of manure, type the first few letter and select from the list. Then enter the quantity in Tonnes or M^3 .

The source or destination should also be entered.

This section accesses the complete record of all fields whether current or non-current. It is generally for information only but any of this information can be edited if required.

New fields and sub-fields must be created here before any information can be entered.

3. 1. Create a New Field

At the Initial Screen click on Field Records and click Field Records again on the second or subscreen. You will be presented with the screen shown below. If you have existing fields you will see the detail of the first field alphabetically on your list.

Field:	IM 01 Hall West		
Sub Field:			
Type:	Current ~		
Size:	14.18 Ha:		
Second Units:	(Please Select) ~ Add:		
Size:	0.00		
OS Number:	NO/44269/49081		
OS Map Sheet:			
Holding:	Mains of Inver 🗸 🗸 Add:		
Comment:			

Click on **New** on the Bottom Button Bar and you will be presented with the small sub-screen shown below. (If it is the first field of the system this sub-screen will not appear.)

Please selection an existing f	xt whether you wish to create a new Field, or a Sub Field o field.
Field:	
🔿 Sub Fie	d:
Field:	IM 01 Hall West

If it is an entirely new field leave the button in 'Field' and click Ok. The 'Field Record' screen as above will appear with blank detail for you to fill in as follows:

Field:	The identifier of this field. This can be a name, number or combination of both. This identifier must be unique to each field. The list of fields is held in alphabetic order, numbers come before letters in computers.
Sub Field:	Not available when entering a new main field. Used to identify part fields when splitting main fields.
Туре:	Can be either Current or Non-Current . Non-Current fields are those which are no longer used. They may be fields that have been amalgamated, sold or no longer cropped for some reason. Their histories are all retained but are not shown in current reports.
Size:	The nominal O.S. area of the field.
Second Units:	An alternative unit of measure as set up in Chapter 1, Section 2.1.
Second Size:	The number of the second units in the Field.
O.S. Number:	The Ordnance Survey Number of the field.
O.S. Map Sheet:	The sheet number of the map for this field.
Holdings:	The holdings this field is on.
Comment:	Free space for your own comment on this field.

Click on **Save** on the Bottom Button Bar to store this detail.

Other details of the field's record can now be accessed by clicking on the tabs along the top. These details are not required at start-up. It is however necessary to enter the current crop details before any operations can be recorded and this is best done at this stage. This routine is explained later in this chapter.

If there are fields which are split in a particular year (two or more crops or part in set-aside) then **Sub-Fields** have to be created.

Please sele an existing l	ct whether you wish to create a new Field, or a Field.	a Sub Field
O Field:		
Sub Fie	ld:	
Field:	IM 08 Mid Bank	~

This is done by a similar routine to creating a new field. Click on **New** on the Bottom Button Bar. When the **New Field Sub-Screen** appears click in **Sub-Field** and select the field which is to be split from the drop-down list.

The record for that field will appear with the cursor in the **Sub-Field** section. Enter the identifier you wish for the sub-field. This should be two digits, letters or numbers. It is suggested that one of these should be the Year number for easy reference, i.e. A7 Would be the first section of the field for the 2007 crop, **B7** the reference for the second section.

The **Size** should be set to the area of the sub-field as should the **Second Size** if applicable. The only other item likely to be edited may be the **Comment**.

You should now click Save.

The crop for this Sub-field can now be entered in the **Crops** section of the **Options Bar.** Continue by the same routine till you have created all the sub-fields you need.

Care should be taken that the total area of the sub-fields should not be greater then the nominal O.S. area of the main field.

Any number of soil sample results can be recorded against a field. These records can be examined and edited by clicking on the **Soil Analysis** tab.

agnesium Sulphur Manganese Copper Zinc
agnesium Sulphur Manganese Copper Zinc
agnesium Sulphur Manganese Copper Zinc

Land Class sets the class for IACS purposes, Non LFA, LFA or SDA.

The record holds both Soil Type and Sub Soil Type description. Soil type is selected from a dropdown list. The list is that used to define soil types for NVZ purposes.

Each test result can record -

Date, pH, Phosphate, Potash, Magnesium, Sulphur, Copper, Zinc, Calcium, Boron, Organic Matter and Comment. Comment is free space for any remarks you wish.

New entries should normally be made through **Field Events** as described in Chapter 4 Section 5.

New entries can also be recorded by clicking on **New** on the button bar and filling in the detail as required. Click save when finished.

Existing entries can be edited by clicking on the incorrect section and re-entering.

Entries can be deleted completely by clicking on **Delete** on the button bar.

Any number of limings can be recorded against a field. These records can be examined and edited by clicking on the **Liming** tab.

1	Field:		IM 01 Ha	all West				
	b #	Date 09/04/2018	PH	.00	Applied	Comment 00	_	_

Each Liming can record -

The Date of the application, the pH Result and amount applied. Comment is free space for any remarks you wish.

New entries should normally be made through Field Events.

New entries can also be recorded by clicking on **New** on the button bar and filling in the detail as required. Click save when finished.

Existing entries can be edited by clicking on the incorrect section and re-entering.

Entries can be deleted completely by clicking on **Delete** on the button bar.

Any number of Eelworm Tests can be recorded against a field. These records can be examined and edited by clicking on the **Eelworm** button on the options bar.

	Soll Analysis	Limings	Eelworm	<u>C</u> rops	Operations	<u>M</u> anu	re		
Fie	eld:	IM 01 H	lall West						
	Date	Re	esult		Comme	ent			
	* 09/04/201	8						 	
<)	

Each test result can record -

The Date of the test and the Result. Comment is free space for any remarks you wish.

New entries should normally be made through **Field Events** as described in Chapter 5, Section 3.

New entries can also be recorded by clicking on **New** on the button bar and filling in the detail as required. Click save when finished.

Existing entries can be edited by clicking on the incorrect section and re-entering.

Entries can be deleted completely by clicking on **Delete** on the button bar.

3. 2. 4. Crops

This Section gives access to the full cropping record for this field. All the crops are shown as in the screen below.

Field		IM 01 Hall We	st					
	ercourses: Eligible for Area	Dry:		< 3 m: 0 > 6 m: 0				
	Date	Harvest Year	Following Crop	Сгор	Variety	Size	2nd Size	IACS Class
•	01/10/2016	2017		Winter Wheat	Beluga	14.18	.00	Cereals
	15/08/2015	2016		Winter Oilseed Rape		14.18	.00	Oilseed
<								,

New

This allows you to create a new crop in this field. The creation of new crops is normally done within the Allocation of Crops in Field Events.

Date:	The sowing date for this crop. For continuing crops such as grass enter the 1 st January of the Harvest Year.
Year:	This is generally the Year in which the crop will be harvested. It also is the year it is taken into account for IACS purposes. It is possible to have 2 or more crops in the same Year. In this case it may be necessary to adjust IACS Class for one or more of these crops to show correct figures.
Crop:	The name of the crop you are entering. Either type the crop name or the first letter to select from the drop-down list.
Variety:	The variety of the Crop. Either type the variety name or the first letter to select from the drop-down list. May be blank
Size:	This is the area of the crop. It is generally the nominal area of the field but may be altered to a smaller area to take into account any uncropped area. This is the Area used in the costings and IACS calculation.
Second Size:	The area of any Secondary Units if they are required.

IACS Class:	This is generally the class associated with the chosen crop.
--------------------	--

Seed Type: Is applied to oilseed rape crops where seed type is a requirement in the record.

- Management Option: Applied to Grassland crops to define the grazing and cutting regime. Also applies to Set-Aside to define the management regime.
- **Delay:** Used for NVZ calculation adjustment, specifies the number of days sowing was delayed,
- Adjustment: Used for NVZ calculation adjustment (pre-2009), where the growing regime is tailored to a specific end market.

Cycle: Specifies the year of a set-aside cycle.

Harvest Date: This is the date the crop was harvested. Filled in after harvest.

Comment: This can be used for any comment you wish to associate with this crop.

Click Save when you are happy with your entry.

Editing

Any of the detail as entered above can be edited. Clicking on the incorrect part of the entry allows you to change it. Again, click save when you are happy with your entry.

Delete

Should you wish to remove one of the crops you may do so by highlighting it and clicking on **Delete**. You cannot delete a crop which has operations (planned or completed) or observations entered in the record. These would have to be deleted individually beforehand. Once all these have been deleted you can now delete the crop, you will be asked to confirm the deletion before it goes.

Watercourses

The Number of **watercourses** bounding this field is also maintained in this section. For LERAP purposes you are required to enter this. There are four class of watercourses depending on their width.

Eligible For AAPS

Sets whether the field is eligible for AAPS or not.

Crop: Size: Type		2017 Winter Wheat V 14.18 Ha: O Planned: O Completed: 	Marg /Ha			
Г	Date	Item Name	Rate	Quantity	Cost	Tim
1	12/10/2016	0-24-24	253.188	3590.206	1148.87	
	01/03/2017	34.5% N	150.038	2127.539	570.18	
	29/03/2017	34.5% N	290.698	4122.098	1104.72	
	20/04/2017	34.5% N	121.905	1728.613	463.27	
	, i					

This gives access to all the operations recorded on this field. These can be either planned or completed.

The crop required can be selected from the drop-down list. The operations for that crop are then displayed.

All operations are shown in chronological order. Scrolling up and down and side to side shows all the detail of each application. The Summary at the top shows the Current margin for this field in total and by Ha. Negative figures indicate that costs have been incurred which are greater than any outputs entered.

New Operations can be entered here by clicking **New** and entering the detail. Stock will be updated accordingly. This is not the normal entry routine for completed jobs.

This is however the section where **amendments** are done to entries already made. Highlight the section of the operation which is wrong and re-enter it. Stock records will be updated accordingly.

Any operation can be deleted by highlighting it and clicking on the **Delete** button. Stock records are again updated accordingly.

Planned operations are automatically removed by entering completed operations to the same field, same crop and with the same stock item. This usually means that anything left in the planned section at the end of the season didn't happen or a different stock item was used.

This section	records the a	pplications	of slurries	and FYM or	a particular crop.

	S <u>o</u> il Analysis				Operations	Manure						
Field		IM 08 Mi	10.1751/01X									
Crop:		2017 Spring Barley					Buffers:	0.00				
Size:		5.30	Ha:				Slopes:	0.00				
	NVZ Rules App	ly:					Other:	0.0	0			
	Date	Ма	nure				Rate		Quantity	Season		1
1	01/03/2017	Catt	le FYM - [Not	t Incorpora	ated]		27	.770	147,181	Spring	:**	
	-											l
												L
												1.
												l

New Operations can be entered here by clicking **New** and entering the detail. This is not the normal entry routine for completed jobs, they are generally entered in field operations.

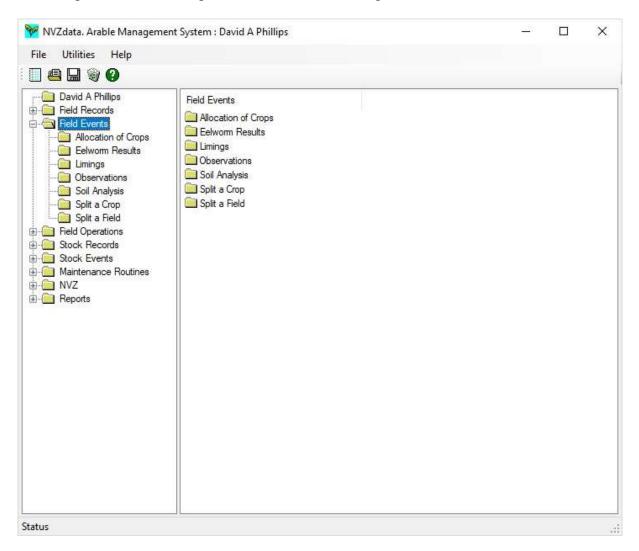
This is however the section where **amendments** are done to entries already made. Highlight the section of the operation which is wrong and re-enter it. Stock records will be updated accordingly.

Any operation can be deleted by highlighting it and clicking on the **Delete** button.

Buffers, Slopes and Other are areas which are not spreadable and are deducted from the field area in some of the NVZ reporting.

Chapter 4 Field Events

This Chapter describes the option available for recording field events.



This allows for the rapid entry of crops into fields. It is generally a once a year task although if a field is double cropped a second entry will have to made.

It is best to have created all the new sub-fields you will require for the new year before commencing this process.

tails Date							Type:	Cereals	~
				 ✓ Add; 					
				~	Add:				
Com	iment:								
lds					Linear	t Year:		elected: Available:	Total:
_ E	By Holding:	Little Manor		~ []	2018	× 🗌	Following Crop:	4 37	41
	Field Name		SF	Includ		Area to be Allocated	Crop Area	Previous Crop	^
	IM 01 Ha	M 01 Hall West]	14.18	14.18	Winter Wheat	
	IM 02 H	all East E	E]	6.22	6.22	Peas	
	IM 02 Ha	ill East W	W			6.22	6.22	Winter Wheat	
•	IM 03 W	hirlies]	8.10	8.10	Seed Potatoes	
	IM 04 W	ell]	9.35	9.35	Winter Wheat	
	IM 05 Co	tter]	10.17	10.17	Winter Oilseed Rape	
	IM 06 No	orth Eat Bank]	5.10	5.10	Winter Oilseed Rape	
	IM 07 Ro	adside]	9.96	9.96	Winter Barley	
	IM 08 Mi	Mid Bank]	5.30	5.30) Spring Barley	
	IM 09 Ba	09 Ram Park			1	6.60	6.60	Spring Barley	~

Enter the **Date** that work is expected to commence on this crop, usually the sowing date.

Select the **Crop** and **Variety**. **Type** is the pre-set IACS definition but can be changed if required. Comment can be entered if you wish.

Enter the **Year** for which you are entering the crops. Generally, the year the crop will be harvested. This is also the IACS year that the crop will be calculated in.

Now Highlight all the fields growing this crop and variety.

Crop Area can be amended to the planted area. This may be less than the nominal area of the field. Any remaining area may then be allocated to a second crop.

Area to be Allocated is the area of the field not already in crop for the selected year.

Clicking following crop will allow you to allocate a second, following crop for the same year. If the field has previously been allocated to more than one crop the crop with the larges area will be selected as the previous crop.

Click save and this will be recorded in the field record.

You will be presented with the details screen. Depending on the crop type being saved various options are available.

pected Yield: 10.00 Tonnes / Ha:	Seed Type:	Certified Seed \checkmark
	Management:	(Please Select)
ljustment: (Please Select) ~ Add:	Expected Yield:	10.00 Tonnes / Ha:
	Adjustment :	(Please Select) ~ Add:

Click OK when details are correct.

The saved fields will disappear off the list to prevent them having two crops accidentally entered. If all the fields are done at once, the only fields left on the list at the end are those which are no longer current, e.g. old sub-fields.

Should some of the fields have an area of crop which is less than the O.S. area of the field this can be adjusted in the field record.

Details						
Date:	03/04/2018 🗸					
Result:	Pass	~				
Comment:						_
Fields						
1997				Selected:	Available: Total	<u>21</u>
By Holding	: High End Farm	~	Non Current:	1	34	35
Field Nam	ie		SF Area			
01			11.44			~
02			10.86			
03			7.89			
04			13.88			
05			10.71			
06			14.96			
07			1.49			
08			11.20			
09			.89			
10			2.99			
11			10.77		-	
12			7.80			
13			12.79			
14			11.08			
15			4.81			
16			14.20			
17			14.15			¥

Results of eelworm tests are recorded here.

Enter the date of the test.

Pick the field by clicking on it to highlight.

Enter the result. (Pass, Fail, Retest Required, Resistant Variety, Order Imposed.)

Comment can be anything you wish.

Click Save to record the entry.

Lime applications are entered here.

Details							
Date:	03/04/2017 🗸						
PH:	5.8			Applied:	4.5	Tonnes	Ha:
Comment:							
Fields							4
By Holding	High End Farm	0	Non Current:	[Selected: Av	ailable: Tot 34	ar: 35
Field Name	1		SF Area				
01			11.44				~
02			10.86				
03			7.89				
04			13.88				
05			10.71				
06			14.96				
07			1.49				
08			11.20				
09			.89				-
10			2.99				
11			10.77				
12			7.80				
13			12.79				
14			11.08				
15			4.81				
16			14.20				
17			14.15				V

Enter the date of the application.

Pick the field or fields by clicking on it to highlight.

Enter the PH if known and the Rate per Ha and any Comment if required.

Click save to record.

Used to enter soil analysis results.

etails Date: Items:	03/04/2017 ~											
			_									
items.	All		\sim									
Comment	1											
elds												
				Show Fiel	ds:	Selected:	Available: T	otal:				
By Hol	Iding: High End Farm			Non Curre		0	35	35				
- Fi	eld Name	SF	PH	Phosphate	Potash	Magnesium	Sulphur	Manganese	Copper	Zinc	Boron	~
01			0.00									
02			0.00									
03		-	0.00									
04		-	0.00									
05		-	0.00		-							
06			0.00									
07		-	0.00									
08		-	0.00									
09			0.00									
10			0.00									
11			0.00									~
<												>
<							10 2004					>

Enter the **Date** of the soil analysis.

Use Items if only one element is to be recorded.

Select **Show Fields** if you wish a list of fields to be shown.

Select **Holding** to get a list of fields on that particular holding. Do not select holding to get all the fields.

Select the first field by clicking on it to highlight it. Enter the analysis in the appropriate boxes and click Save. The Field will disappear from the list and you can highlight the next field.

Click Exit when all the entries have been made and saved.

	3/220				-	6.0200 ET	1 Parata		
☑ 1: [A7	4.70			SL.	4:	0.00		
2:	B7	3.10	Ha:			5:	0.00	Ha:	
3:		0.00				6:	0.00		
ìelds				Ürmun	t Year:		Colored A.	allable:	Tail.
— — —	Lanco II			-					Total:
∐ Ву Но	lding:	High End Farm		2017	~		1	34	35
Field 1	Name			SF	Area	Crop			
01					11.44	Carrot	3		~
02					10.86	Spring	y Barley		
03					7.89	Carrot	s		
04					13.88	Spring	g Barley		
05					10.71	Spring	g Barley		
06					14.96	Spring	g Barley		
07					1.49	Grass	over 5 years		
08					11.20	Spring	g Barley		
09					.89	Grass	over 5 years		
10					2.99	Grass	under 5 years	3	
11					10.77	Spring	g Barley		
12					7.80	Ware I	Potatoes		
13					12.79	Spring	g Barley		
14					11.08	Ware H	Potatoes		
15					4.81	Grass	under 5 years	3	
16							under 5 years	3	
17					14.15	Grass	over 5 years		V

Used to split a field after work has started on it.

Select **Holding** to get a list of fields on that particular holding. Do not select holding to get all the fields.

Select the Harvest Year.

Select the field to split. Tick the number of splits to make by ticking the appropriate number of boxes.

Enter the identifier for each sub-field and the area for each.

Click Save.

Chapter 5 Field Operations

File Utilities Help			
David A Phillips	Completed Operations		

There are three ways of entering detail onto fields:

1. New Operations.	This allows for individual operations to be entered onto individual fields also for the entry of sales from fields.
2. One Crop Operations.	This allows for rapid entry of the same operation to many fields growing the same crop or variety.
3. Manure Operations	Used to enter applications of FYM & Slurry.

This is where you can enter single operations onto fields. All Sprays, Fertiliser, Seeds, Tasks and Yields are available through this routine.

09/04/2017 🗸				(Rate:	231,965	Kgs/Ha
All					••••••••••		regarria.
Car				(Quantity:	10000.000	Kgs:
34.5% N			~ Ad	ld:	Price:	198.00	Tonnes:
			418-14	0	Stock:	-2.599	Tonnes:
		110000	V		Putratal.	Walder	Total:
Little Manor		and the second second		Planned:			10tal: 41
Latting (Pilat No)		2017		r annou.			
		SF	Area	Crop			_
lest			14.18	Winter	Wheat		^
			6.22	Peas			
	W	W	6.22	Light of the local state of the	A shink play the sheet		
les			8.10	Seed Po	tatoes		
			9.35	Winter	Wheat		
			10.17	Winter	Oilseed F	lape	
Eat Bank			5.10	Winter	Oilseed F	lape	
ide			9.96	Winter	Barley		
ank			5.30	Spring	Barley		
ark			6.60	Spring	Barley		
1			4.37	Seed Po	tatoes		
Ind		E	3.40	Winter	Wheat		
Ind		W	4.11	Seed Po	tatoes		
1			3.53	Winter	Wheat		
			8.25	Grass o	ver 5 vea	ars	~
	Little Manor Nest East East Es Es Eat Bank Eat Bank de Eat Bank Ch End End	Litile Manor	Harvest Little Manor 2017 SF Rest East E E East W W Les C Eat Bank Lide ank ark h End E M W	Harvest Year: 2017 2017 SF Area Nest East East 9.35 9.35 c 10.17 East 9.35 c 10.17 Eat Bank 5.10 Ide 9.96 ank 5.30 ark 6.60 1 4.37 Snd E 3.53	Little Manor Harvest Year: 2017 2017 SF Area Crop Nest 14.18 East E Cast W 6.22 Peas 9.35 Winter 10.17 Winter Eat Bank 5.10 Control 9.96 Winter 6.60 Spring ank 5.30 4.37 Seed Pc Seed 9.36 Winter 6.60 Spring 6.60 Sind E 3.40 Winter Seed 8.353	Harvest Year: Selected: 2017 Planned: 5 SF Area Crop West 14.18 Winter Wheat East E 6.22 Bast W 6.22 Winter Wheat 10.17 Winter Oilseed F Eat Bank 5.10 Sind 9.96 Winter Oilseed F Ank 5.30 Spring Barley Ank 6.60 Spring Barley Ank 5.340 Winter Wheat Sind E 3.40 Winter Wheat Sind W 4.37 Seed Potatoes 3.53 Winter Wheat	Stock: 2599 Stock: 2017 Planned: Stock: 2259 Stock: 2017 Planned: SF Area Crop SF Rest E East E 6.22 Peas Cast W W 6.22 Winter Wheat Lities 9.35 Winter Wheat D0.17 Winter Oilseed Rape Colspan="2">Cast W 6.60 Spring Barley ank 5.30 Spring Barley ank 5.30 Spring Barley ank 5.30 Spring Barley ank 5.33 Seed Potatoes Sind E Cast W A.37 Seed Potatoes Sind E State 3.53

Enter the **Date** the operation was done.

Pick the **Category** you wish from the list. The list is obtained by clicking on the small box with the arrow at the end of the Category field. The individual **Item** from within that category is selected in the same way. Selecting **None** as the Category give a list of all Items regardless of category. (Stock can be used before it is entered in Stock Receipts, the stock level will run at a negative level.)

Select **Rate** or **Total**. Only one of these options can be selected. **Rate** would be entered as the Rate per Hectare at which the item was applied. **Total** is the total amount of the item used for the applications. Using **Total** gives a more accurate control of Stock.

Comment can be anything you wish to record against the application.

Select **Holding** to get a list of fields on that particular holding. Do not select holding to get all the fields.

Select the Harvest Year. The default Harvest Year, as set in the Business Parameters, is displayed.

Each field will have several crops after a number of years. This **Year** determines which crop the application will be applied to. Only fields with crops allocated in the Year will appear on the list. If a field has two crops in the same year, the field will be displayed twice. The crop with the earliest commencement will be displayed first.

Select the fields for the application by clicking on them to highlight them. The full list of fields can scroll up and down using the up and down arrows at the right side of the field list. If you have selected a Rate for the application, the total will build up as the fields are selected. If you have selected a Total, the rate will adjust as fields are selected.

If you wish to select all the Fields on the list click **Select All** on the Bottom Button Bar. Individual fields can then be deselected by clicking on them to remove the highlight.

On the Bottom Button Bar Click **Save** to record the entry.

This section allows for the same function as in **1**. above. This options however gives the facility to pick only the fields growing the same crop in a particular year. A particular variety of the selected crop can then be chosen. It gives a rapid entry facility where an application is applied over all fields growing a particular crop or variety.

Ali Quantity: 10000.000 Kgs: 34.5% N Add: Price: 295.00 Tonnes: Winter Wheat Harvest Year: Stock: 12.599 Tonnes: Winter Wheat Harvest Year: Selected: Available: Total: Ali 2017 Planned: 7 7 7 SF Area Crop West 14.18 Winter Wheat E
Winter Wheat Harvest Year: Selected: Available: Total: All 2017 Planned: 7 0 7 SF Area Crop Crop 7 0 7
Winter Wheat Harvest Year: Selected: Available: Total: All 2017 Planned: 7 0 7 SF Area Crop 2017 2017 2017
Harvest Year: Selected: Available: Iotal: All 2017 Planned: 7 0 7 SF Area Crop 7 1 1
Harvest Year: Selected: Available: Total: All 2017 Planned: 7 0 7 SF Area Crop 7 1 1
SF Area Crop
East W W 6.22 Winter Wheat
9.35 Winter Wheat
End E 3.40 Winter Wheat
le 3.53 Winter Wheat
8.00 Winter Wheat
8.64 Winter Wheat
8.64 Winter Wheat

Enter the **Date** the operation was done.

Pick the **Category** of input you wish from the list. The list is obtained by clicking on the small box with the arrow at the end of the Category field. The individual **Item** from within that category is selected in the same way. Selecting **None** as the Category gives a list of all Items regardless of category. (Stock can be used before it is entered in Stock Receipts, the stock level will run at a negative level.)

Select **Rate** or **Total**. Only one of these options can be selected. **Rate** would be entered as the Rate per Hectare at which the item was applied. **Total** is the total amount of the item used for the applications. Using **Total** gives a more accurate control of Stock.

Comment can be anything you wish to record against the application.

Select the **Crop** you wish to make the application on. All the fields growing that crop in the selected year will be listed. All is initially displayed in the **Variety** box. If you wish just one variety of the crop select it in the **Variety** box and only fields growing that variety of the crop will be displayed.

Select the Harvest Year. The default Harvest Year, as set in the Business Parameters, is displayed.

Select the fields for the application by clicking on them to highlight them. The full list of fields can scroll up and down using the up and down arrows at the right side of the field list. If you have selected a Rate for the application, the total will build up as the fields are selected. If you have selected a Total, the rate will adjust as fields are selected.

If you wish to select all the Fields on the list click **Select All** on the Bottom Button Bar. Individual fields can then be de-selected by clicking on them to remove the highlight.

On the Bottom Button Bar Click **Save** to record the entry.

Details	<u></u>					-
Date:	09/03/2017 ~			○ Rate:	6.732	T/Ha:
Season:	Spring	\sim		Quantity:	300.000	Tonnes:
Manure:	Cattle Sluny - Surfac	e Applied (6%) - [N	Not Incorporate	ed]		113 ~
Comment:						
Fields		1152			All Control of Control	TAL
		1.1	vest Year:	Selected:	Available:	Total:
By Holding:	Little Manor	20	17 🗸	10	31	41
Field Name	8	SF	Area	Crop		
IM 06 North	n Eat Bank		5.10	Winter Oilseed H	Rape	^
IM 07 Roads	side		9.96	Winter Barley	999233	
IM 08 Mid H	Bank		5.30	Spring Barley		
IM 09 Ram H	Park		6.60	Spring Barley		100
IM 10 Garde	en		4.37	Seed Potatoes		
IM 11 Road	End	E	3.15	Winter Wheat		
IM 11 Road	End	W	3.86	Seed Potatoes		
IM 12 Randl	Le		3.23	Winter Wheat		
IM13	10 PA		8.25	Grass over 5 yea	ars	
IML4			6.24	Grass under 5 ye		
LM 01			.44	Winter Barley		
LM 02			5.13	Winter Oilseed H	Rape	
LM 03			1.62	Winter Barley	-	
LM 04			5.55	Winter Barley		
LM 05			4.96	Winter Oilseed H	Rape	~
						1100

This section is used to record the application of FYM and slurry onto fields.

Enter the date of the application.

Enter either a rate per Ha of the application or the total amount applied over the fields you are selecting. If a rate is selected the total is calculated, if the total is entered the rate is calculated.

Select the season for the application.

Select the type of manure being applied.

Comment can be entered as required.

If holding is selected then only fields at that holding will be selected for display. If holding is not selected then all fields within the business will be displayed regardless of holding.

The Year determines which crops are displayed in the fields. Entering 2009 will display the crops grown in the fields in that IACS year, entering 2008 will display the crops grown in that year.

Select all the fields you wish to record this application against.

Click Save to save the application to the records.

Chapter 6 Stock Records

This Section access all the detail of Stock items. Stock items in NVZdata have the details of inorganic manures.

Image: Field Records 0-24-24 Fertiliser Compound Kgs Image: Field Events 20-10-10 Fertiliser Compound Kgs Image: Field Operations 20-10-10 Fertiliser Compound Kgs Image: Field Operations 34.5% N Fertiliser Nitrogen Kgs Image: Field Operations 34.5% N Fertiliser Nitrogen Kgs Image: Field Operations 8-24-24 Fertiliser Compound Kgs	On Hand
Image: Pield Events 0-24-24 Fertiliser Compound Kgs Image: Pield Operations 20-10-10 Fertiliser Compound Kgs Image: Pield Operations 34.5% N Fertiliser Nitrogen Kgs Image: Pield Operations 34.5% N Fertiliser Nitrogen Kgs Image: Pield Operations 8-24-24 Fertiliser Compound Kgs	
Image: Pred Operations 20-10-10 Fertiliser Compound Kgs Image: Stock Records 34.5% N Fertiliser Nitrogen Kgs Image: Image: Stock Events 8-24-24 Fertiliser Compound Kgs	000
Image: Period Operations 34.5% N Fertiliser Nitrogen Kgs Image: I	.000
Stock Events 8-24-24 Fertiliser Compound Kgs	17.400
n NZ ⊕- ☐ Reports	.000

Each Item which is to be costed onto a field has to be entered here. The screen below is the entry screen, the Bottom Button Bar gives the available options for all stock items. The tabs give access to further information on each Stock item.

New Stock Items should be entered here. Click on the **New** Button on the Bottom Button Bar and fill in the record as described below. With new records care should be taken to ensure that any existing stock holding is entered both in the **Receipts** Tab and the **Stock on Hand** and **Adjusted Cost** sections of the main record.

Existing items can be edited at any time. Select the item from the drop-down list by clicking on the down arrow at the end of the item line. Alternatively click the **Find** button on the Bottom Button Bar and type in the first few characters of the description. Click **OK** and the nearest item alphabetically will be presented. **Previous** and **Next** Buttons will work back and forwards through the list if you do not get exactly the item you want.

Care should be taken not to upset the Stock Audit by adjusting Stock Holding and Opening Stock Figures.

When you have made all the changes you want click **Save** to record them.

Do not delete an item once it has been used. It is easiest to make it Non-Current. Non-Current items should have a 0 Stock Holding.

Name:	34.5% N			~			
Type:	Current	~					
Category:	Fertiliser	~	Add:				
Sub Category:	Nitrogen	~	Add:				
Units:	Kilogrammes	~	Add:				
Standard Size:	1000.00	Kilogrammes:					
Description:	Tonnes	~	Add:				
Adjusted Cost:	198.00	Tonnes:					
Stock on Hand:	17.400	Tonnes:					
Committed Stock:	0.000	Tonnes:					
Comment:		ki					

- **Name:** This is the name of the stock item. It must be unique. It can made up of any mixture of characters you like.
- Type:This is either Current or Non-Current depending on whether it is a
Stock item which you wish to be available for use or not. If it is Non-
Current it is not available on the lists presented when entering
operations.
- Category: Set to Fertiliser.
- **Sub Category:** This may for example define Compound ang Nitrogen, etc. within fertilisers.
- Units: This is the unit in which the item is applied to the Field, i.e. Kilograms for Fertiliser.
- **Standard Size:** This is the number of the **above Units** that the item is purchased in. Fertilisers are normally purchased in **1000 Kg** lots called Tonnes. This is of importance when entering Stock Receipts, you enter the number of packs and the price per pack, the program will then work out the Unit price.

Description:	The description of the type of pack the item is purchased in. Tonnes for Fertiliser. When entering Stock Receipts, you are asked for this number as the quantity purchased.
Adjusted Cost:	This is the cost of the Stock on Hand. It is worked out as Stock is Purchased and a weighted average taken with the price of the quantity already in stock. For example, if you have 10 tonnes in stock at $\pounds100$ /tonne when you buy another 20 tonnes at $\pounds110$ / tonne, then the adjusted cost of the new total stock on hand is $\pounds106.67$. This is the price that this new stock on hand will be applied to the fields at.
Stock on Hand:	This is the Quantity of the stock on hand at the current time. Worked out from Quantities entered through Stock Receipts less the Quantity used as completed operations. Can run as negative values if stock is applied before being entered as a stock receipt.
Committed Stock:	The amount of stock which is needed to cover any Planned Operations which have been entered.
Comment:	Free space for any use you wish.

6. 2. Analysis

Applies to Fertilisers

Name: Type:	34.5% N Current	~		~		
Category:	Fertiliser		Add:			
Sub Category:	Nitrogen	~	Add:			
Units:	Kilogrammes	~	Add:			
Standard Size:	1000.00	Kilogrammes:	Conserve a			
Description:	Tonnes	-	Add:			
Adjusted Cost:	198.00	Tonnes:				
Stock on Hand:	17.400	Tonnes:				
Committed Stock:	0.000	Tonnes:				
Comment:						

This allows for the Nitrogen, Phosphate, Potash and Sulphur analysis to be entered. The system can then give total units of N, P, K & S applied to a particular field.

This gives access to the details of stock receipts and opening stock as at the last stock update. This is only available if the Stock Audit function is switched on in the Business Parameters

Name: Opening Date: Opening Stock: Opening Cost: Date		34.5% N 01/09/201 0.000 0.00	T	onnes: onnes:				
	Date	Quar	ntity	Cost	Supplier			٦
+	12/09/2010	5	10.000	268.00	Fert Co.			
	12/02/2017	7 1	000.000	198.00	Fert Co.			
								L

The opening Stock on a particular date is recorded here. This is only valid if the Stock Audit is switched on in the Business Parameters. The Opening Stock Date, Adjusted Stock Cost and Stock Quantity on that date are recorded.

The stock audit works from the Opening Date calculating from Opening Stock, usage and receipts to give a current stock holding. This is compared to the Stock on Hand figure. If there is a difference you are warned of the error. Errors usually occur when manual adjustments are made rather than using normal entry routines.

Running the Stock update routine brings the Opening Stock Date forward and updates to the calculated Stock Cost and Stock Holding since the last date. Any errors have to be rectified at this point to the actual Stock Holding and Stock Cost.

This screen only shows the receipts since the last Stock Update.

New receipts can be entered here by clicking on the **New** button on the button bar. New entries are however best entered through the Stock Receipts section.

Any existing entries can be edited by highlighting the incorrect data and re-entering it.

This chapter describes how to get your information out of the system in a form you will find useful.

😵 NVZdata. Arable Manageme	nt System : David A Phillips	<u> </u>	×
<u>F</u> ile <u>U</u> tilities <u>H</u> elp			
🗌 🚇 📦 🚷			
David A Phillips Field Records Field Events Field Operations Field Operations Field Operations Field Records Field Reports Field Report	Reports Field Reports Code Lists IACS Reports NVZ Reports Selective Reporting		
atus	J		

The options are,

1. Field Reports:	Reports on the field details, the crops allocated to them and the field events entered.
2. Stock Reports:	Reports on Stock Items, availability and usage.
3. Code Lists:	The Codes as set up in the Business Parameters.
4. NVZ Reporting	Reports and calculations for the NVZ regulations
5. Selective Reporting:	Reports set up and defined by you to get the what you want out of the system.

ì	Field	d Sum	mary												8 <u>°</u>		×
£	3		Ð	H	4	Þ	M	1		/2 🕅	€, -				SA	P CRYSTAL R	EPORTS
-																	
	177								Dav	vid A P	hillips				Date: 09/04/18		
									Fie	ld Sum	mary				Page 1 of 2		
															Harvest Year: 2017		
		Fie	eld Nam	ne				<u>SF</u>	Area	Secon	d Area	Date	Year	Crop / Variety	Area	0	
		IM	01 Hall	Wes	t			81 <u></u> 11	14.18	80	(01/10/16	2017	Winter Wheat Beluga	14.18		
		IM	02 Ha	II Eas	t		E	E	6.22		()1/04/17	2017	Peas	6.22	2	~
<																	>
Curi	rent P	age N	lo.: 1						Total Pa	age No.: 2				Zoom Fa	actor: 100%		

Common to all Screen reports are some Button Controls on the Screen Display.

The button at the top left exports the displayed report to file. This may then be imported into other applications.

Next from the left is the Print button which sends the displayed report to the printer.

The Refresh button (rotating arrows) refreshes the report if the data has been changed.

Next is the copy button.

Next is shown which page of the report is on the screen. At each side are start and end page buttons, inside these are page forward and back buttons.

The Binoculars icon next to it is for searching. For example, it can be used for searching for a particular field or stock item. Click on the Binoculars button, enter the required characters and the first item containing the characters chosen will be outlined, click again and the next item containing those characters will be shown.

The magnification button can be used to change the size of the report shown on the screen or it can be made to fit the page width or the whole page.

The side scroll bar allows you to scroll up and down the report and the bottom scroll bar from side to side.

Reports on the various headings shown in the Options Box can be printed or shown on the screen. The screen displays are exactly the same as the printed reports. Printed reports can be created directly from the screen display. If you have a colour printer the reports will print in the same colours as the screen display.

Field Reports		- 🗆 ×
Reports		
Field Summary:	O Observations:	
O Detailed Fields:	O Soil Analysis:	
O Fields by Crop:	O Limings:	
O Cropping Summary:	O Eelworm:	
Limits		
Start: By Holding: End:	Little Manor <u>L</u> imits]
Harvest Year:	2017 ~	

- **Holdings** can be set in the holdings section by putting a tick in the box and selecting start and end holdings. Not selecting holdings means all fields in the business will be shown.
- Year Where available it should be set to the desired year. It initially sets to the current year as set in the Business Parameters.

Limits are available in all the Field reports by clicking on the **Limits Button** in the Holding Section. The Limits are operated by clicking in the square beside the description. If there is no **X** in the box the limit is not set. If the limit is set with a tick then you can select from the list in the adjacent drop-down list.

Type:	Current 🗸	
Field:	IM 01 Hall West	×
Crop:	5 yr Set-Aside 🚽	

- **Type** can be limited to Current or Non-Current fields. This limit is set to Current Fields only by default. This means only current fields are included in reports as standard if you do not change Limits.
- Field can be limit to one particular field.

Crop can be limited to one particular Crop.

Field Summary.

Gives a summary listing of all fields. Be careful only to include current fields to get accurate areas at any point in time. You should set **old Sub-Fields** not in current use to **Non-Current**.

			Dav	id A Phillips		Date:	09/04/18	
				Id Summary			age 1 of 2	
						Harvest Y	'ear: 2017	
<mark>Field Name</mark> IM 01 Hall West		<u>SF</u>	<u>Area</u> 14.18	Second Area Date 01/10/1	Year 2017	Crop / Variety Winter Wheat Beluga	Area 14.18	
IM 02 Hall East	Е	Е	6.22	01/04/1	7 2017	Peas	6.22	
IM 02 Halkerton East			12.44					
IM 02 Hall East	w	W	6.22	01/10/1	6 2017	Winter Wheat	6.22	
IM 03 Whirlies			8.10	15/04/1	7 2017	Seed Potatoes	8.10	
IM 04 Well			9.35	01/10/1	6 2017	Winter Wheat	9.35	
IM 05 Cotter			10.17	15/08/1	7 2017	Winter Oilseed Rape	10.17	
IM 06 North Eat Bank	il.		5.10	15/08/1	6 2017	Winter Oilseed Rape	5.10	
IM 07 Roadside			9.96	01/09/1	5 2017	Winter Barley	9.96	
IM 08 Mid Bank			5.30	01/04/1	7 2017	Spring Barley	5.30	
IM 09 Ram Park			6.60	01/04/1	7 2017	Spring Barley	6.60	
IM 10 Garden			4.37	15/04/1	7 2017	Seed Potatoes	4.37	
IM 11 Road End			7.51					

Detailed Fields.

Similar to the summary report but showing more detail.

			-			
	David A Phillips Detailed Fields		Date: 09/04/18 Page 1 of 4			
Crop: Winter Wheat			Harvest Year: 2017			
Field Name SF OS Number Map Ref	Area Second Area Land Class		V	Const Western	A	
OS Number Map Ref IM 01 Hall West NO/44269/49081	14.18 Non LFA	Date 01/10/16	<u>Year</u> 2017	Crop / Variety Winter Wheat Beluga	Area 14.18	
IM 02 Hall East E E NO/44492/49185	6.22 Non LFA	01/04/17	2017	Peas	6.22	
IM 02 Halkerton East NO/44492/49185	12.44 Non LFA	(
IM 02 Hall East W W NO/44492/49185	6.22 Non LFA	01/10/16	2017	Winter Wheat	6.22	
IM 03 Whirlies NO/43827/46548	8.10 Non LFA	15/04/17	2017	Seed Potatoes	8.10	
IM 04 Well NO/44037/46559	9.35 Non LFA	01/10/16	2017	Winter Wheat	9.35	
IM 05 Cotter NO/44233/46503	10.17 Non LFA	15/08/17	2017	Winter Oilseed Rape	10.17	
IM 06 North Eat Bank NO/44483/46554	5.10 Non LFA	15/08/16	2017	Winter Oilseed Rape	5.10	

Fields by Crop.

A listing of all fields with crops in the selected year totalled by crop and within crop by variety.

🗶 📭 H 🔺 🕨 I	N 1	/2 🚜 🤇	₽, +		SAP	CRYSTAL
		construction of the				
		David A Ph	illins		Date: 09/04/18	
		Fields by C			Page 1 of 2	
					Harvest Year: 2017	
Field Name	SF	OS Number	Date	Area Comment		
Grass over 5 years	51	03 Number	Date	Alea Comment		
IM13		NR/12345/56575	01/01/17	8.25		
NG 03		NO/43969/44164	01/01/17	0.94		
		2		9.19		
Total for Grass over 5 y	/ears	2		9.19		
Grass under 5 years						
IM14		NG/12342/96732	01/01/17	6.24		
Peas						
IM 02 Hall East	ΕE	NO/44492/49185	01/04/17	6.22		
LM 08		NO/44066/48960	01/04/17	3.17		
LM 10 NG 08		NO/44116/48814 NO/44343/44100	01/04/17 01/04/17	3.05 7.94		
NG VO		NO/44545/44100 4	01/04/11	20.38		
Total for Peas		4		20.38		
Seed Potatoes						
IM 03 Whirlies		NO/43827/46548	15/04/17	8.10		
IM 10 Garden		NO/44005/45974	15/04/17	4.37		
IM 11 Road End	W		15/04/17	4.11		
NG 07		NO/44332/43325	01/05/17	6.32		
NG 13		NO/44673/44319 5	01/05/17	7.09 29.99		
Total for Seed Potatoes	5	5		29.99		
Spring Barley						

This option gives reporting facility on Stock Items and their usage. Limits can be set for a single Stock Category or a range of stock categories.

Reports				
Stock Items:		🔘 Stock Holdings:		
🔘 Non Stock Ite	ms:			
O Stock Transa	ctions:			
🔘 Non Stock Tr	ansactions:			
imits				
By Category:	Start:	Fertiliser <u>L</u> imits		
	End:	Yield		

Stock Items

A listing of all Stock Items on Record.

Reports			
Crop Codes:	O Observation Codes:		
O Variety Codes:	O Unit Codes:		
O Operation Categories:	O Holding Codes:		
O Operation Codes:	◯ Area Codes:		

This section gives the ability to print or view the codes as set up in the Maintenance Routines.

Select the list you wish and click Printer or Screen.

The reports in this section are based on those published in the Scottish Government's 'Guidelines for Farmers in Nitrate Vulnerable Zones'.

Reports							
Spreading Land, L	oading (1	Table 1):	() Ann	ual Fertilise	r Inventory (Table 12)	r.	
O Average Stocking	Records	(Table 3):	🔿 Org	anic Manur	res - Imports/Exp <mark>o</mark> rts (Table 13):	
O Nmax for Arable C	rops (Tab	le 8):	O Nm	ax for WOS	R (Table 16):		
🔿 Livestock Manure	Applicati	ons (Table 9):	🔿 Slur	ry Productio	on (Table A):		
🔘 Nmax for Grasslan	d (Table	10):	O Pou	ltry Manure	(Table N):		
O Field Record Shee	t (Table	11):	O FYN	1 Productio	n (Table Q):		
imits							
A REAL PROPERTY OF A REAL PROPER	art:	Little Manor		\sim	Limits		
By Holding:	nd:	North Grange	e Farm	~			
Harvest Year:		2017 ~					
			5				

Before creating a report for a specific year, you should be sure that the livestock figures are correct for that year in the Excreted Nitrogen and Slurry section of the Maintenance section.

Selecting a year pre-2009 will change the report to those which were described under the rules in force at that time.

The Table referred to in brackets corresponds to the same as published in the Scottish Executive 'Guidelines for Farmers in Nitrate Vulnerable Zones' booklet of tables.

Calculates the spreadable area of each field and applies the Maximum Nitrogen figure to get the Field Limit.

5 🗃		▶ 1		/1 🏔 🔍 ·	•				SAP C	RYSTAL RE	POF
20											
, e									Date: 09/04/18	anang -	
				vid A Philli		1.1.44			Page 1 of 1		
		Sprea	aing Land	& Field Lo	ading (1	able 1)			ragetori		
	Holdings : Mains of In	ver to Ma	ins of Inve	10							
				Ditches	and	Other					
			Field	Watercoul	rses	Red	Unavail	Spread	Field		
	Field Name	Sub	Area	Length	Area	Areas	Areas	Area	Limit		
	Mains of Inver										
	IM 01 Hall West		14.18	380.00	0.38	0.00	0.00	13.80	3450.00		
	IM 02 Hall East	EE	6.22	170.00	0.17	0.00	0.00	6.05	1512.50		
		w w	6.22	170.00	0.17	0.00	0.00	6.05	1512.50		
	IM 03 Whirlies		8.10	0.00	0.00	0.00	0.00	8.10	2025.00		
	IM 04 Well		9.35	0.00	0.00	0.00	0.00	9.35	2337.50		
	IM 05 Cotter		10.17	0.00	0.00	0.00	0.00	10.17	2542.50		
	IM 06 North Eat Bank		5.10	0.00	0.00	0.00	0.00	5.10	1275.00		
	IM 07 Roadside		9.96	0.00	0.00	0.00	0.00	9.96	2490.00		
	IM 08 Mid Bank		5.30	0.00	0.00	0.00	0.00	5.30	1325.00		
	IM 09 Ram Park		6.60	0.00	0.00	0.00	0.00	6.60	1650.00		
	IM 10 Garden		4.37	0.00	0.00	0.00	0.00	4.37	1092.50		
	IM 11 Road End	EW	3.40	250.00	0.25	0.00	0.00	3.15	787.50		
	IM 11 Road End	VV	4.11	250.00	0.25	0.00	0.00	3.86	965.00		
	IM 12 Randle		3.53 8.25	300.00	0.30	0.00	0.00	3.23 8.25	807.50 2062.50		
	IM13			0.00	0.00		0.00	100000000000000000000000000000000000000	1560.00		
	Totals for Mains of Inv	ver	6.24 111.10	1520.00	1.52	0.00	0.00	6.24 109.58	27395.00		
	Totals		111.10	1520.00	1.52	0.00	0.00	109.58	27395.00		
	Loading Limit for Live	estock Ma	nure	18887.00 kg							

Areas of ditches and watercourses, red area and other unavailable areas are set in the individual field records under the manure section.

Records the number of animals on the holding and calculates the total livestock nitrogen production.

	g Records (Table 3)																- <u>p</u>	
		1 🕅 🔍 +															SAP CRYSTA	L REPO
																		-
[Н	igh En	d Fari	n											Date:	03/04/18	٦
		Average Sto	cking	Recor	ds (T	able 3)										P	age 1 of 1	
		-	_													Harvest Y	ear: 2016	
																Nitrogen	Total	
Code B12	Description	<u>Jan</u> 85 0 2 0	Feb 85 0 2 0 0	<u>Mar</u> 85 0 2 40 0	Apr 85 0 2 80 0	May 85 0 2 80 0	<u>Jun</u> 85	Jul 85 80 2 0 0	Aug 85 80 2 0	85 80 2 0	Oct 85 80 2 0	<u>Nov</u> 85	Dec				Nitrogen	
B12 B16	Beef Suckler Cow (up to 500kg) Steer/Heifer (3 to 13 months)	0	0	85 0	80	80	40	80	80	80	80	80 0	85 0		5.00	61.00 34.00	5185.00 1020.00	
B18	Bull for Breeding (over 25 months)	2	2	2	2	2	40 2 40	2	2	2	2	0 2	2	24	2.00	48.00	96.00	
B20 \$13	Calf (up to 3 months)	0	0	40	80	80	40	0	0	0 150	0	0	0		0.00	8.00	160.00	
Totals	Lamb (from 6 to 9 months)	100	U	U	U	U	0	U	U	100	500	400	200	1350 11	12.50	2.00	225.00 6686.00	
Totalo																	0000.00	
L																		1
ent Page No.: 1		Total Pa										m Facto		2				-

The numbers are entered in the NVZ section under the Excreted Nitrogen Section.

7. 4. 3. Nmax for Arable Crops (Table 8)

Calculates the Nmax figure for each crop based on the individual field records.

2 B H 4	► H	1	/2	M 🔍 -										S	AP CRYST
		-													
				۰.	David A Phi	line								Date: 0	04/40
					Arable Cro	and the second second second second	e 8)								1 of 2
Holdings : Mains o	fInver	to Mai		iniax for	Augue ore	p5(105)	,								_
Mains of Inver	, mirei	to mu													
Peas			Standard Yield:	0.0 t/ha	Average Y	ield for th	is crop on	this farm:	0.0 t/ha						
			Crop Prev	Soil	Standard	Adjust	monte	- Adjusted	Mmax	N from	N from	Winter	N to be	N to be	
			Area Crop	Type	N Rate	Yield			Total N		Manufact		Applied	Applied	
Field Name		SF	ha				kg N /ha		kg	kg	kg		kg	kg /ha	
IM 02 Hall East	E	E	6.22 SB	OMS	0	0		0	0	0	0	0	0	0	
Totals									0	0	0	Nmax	0		
Seed Potatoes			Standard Yield:	0.0 t/ha	Average Y	ield for th	is crop on	this farm:	0.0 t/ha						
			Crop Prev	Soil	Standard	- Adjust	ments	- Adjusted	I Nmax -	N from	N from	Winter	N to be	N to be	
			Area Crop	Туре	N Rate	Yield			Total N		Manufact		Applied	Applied	
Field Name		SF	ha		kg N /ha	kg N /ha	kg N /ha		kg	kg 0	kg	kg /ha	kg	kg /ha	
IM 03 Whirlies			8.10 SB	OMS	225	0	0	225	1823			0	1823	225	
IM 10 Garden		100	4.37 SB	OMS	225	0	0	225	983	0	983	0	983	225	
IM 11 Road End		W	4.11 SB	OMS	225	0	0	225	925	0	925	0	925	225	
Totals									3731	0	3731	Nmax	3731		
Spring Barley			Standard Yield:	5.5 t/ha	Average Y	ield for th	is crop on	this farm:	6.0 t/ha						
			Crop Prev	Soil	Standard			- Adjusted		N from	N from		N to be	N to be	
			Area Crop	Туре	N Rate	Yield			Total N			Rainfall	Applied	Applied	
Field Name		SF	ha				kg N /ha		kg	kg	kg	kg /ha	kg	kg /ha	
IM 08 Mid Bank			5.30 WW	OMS	130	8	0	138	731	88	643	0.000	643	121	
IM 09 Ram Park			6.60 WW	OMS	130	8	0	138	911	110	801	0	801	121	
Totals									1642	198	1444	Nmax	1444		
Winter Barley			Standard Yield:	6.5 t/ha	Average Y	ield for th	is crop on	this farm:	8.0 t/ha						
			Crop Prev	Soil	Standard			- Adjusted		N from			N to be	N to be	
			Area Crop	Туре	N Rate	Yield			Total N		Manufact		Applied	Applied	
Field Name		SF	ha				kg N /ha		kg	kg	kg	kg /ha	kg	kg /ha	
IM 07 Roadside			9.96 WW	OMS	180	22	0	202	2012	0	2012	0	2012	202	
Totals									2012	0	2012	Nmax	2012		

	Lives	1000 Contractor		Farm plications (Tabl	e9)			3/04/18 e 1 of 1	
Field Name 03 04 04 04 08 11 12 EN02 EN03 EN05	<u>SF</u>	Soil Type SL SL SL SL SL SL SL SL SL SL SL	Man Ref 16 16 16 16 16 4 4 4 4 4 4	TotalSeasonkg /t25.00 Spring25.00 Spring5.00 Spring25.00 Spring25.00 Spring25.00 Spring5.00 Spring5.00 Spring5.00 Spring5.00 Spring5.00 Spring5.00 Spring5.00 Spring	% N Spring 30.00 20.00 30.00 20.00 20.00 20.00 20.00 20.00 20.00	Size ha 7.89 13.64 13.64 10.13 10.43 7.56 10.43 8.07 14.89	Amount Applied <u>1</u> 47.34 54.56 136.40 40.52 41.92 181.44 260.75 121.05 372.25	Next Crop kg /ha 45.00 30.00 10.00 30.00 30.00 24.00	

Lists the applications of FYM and slurry made in the calendar year.

Entries are made in Field Operations, Completed Operation, Manure Operations.

7. 4. 5. Nmax for Grassland (Table 10)

Calculates the Nmax for total grassland based on the individual field records.

👔 Nmax for Grassland (Table 10)			8 <u>—</u> 8		×
	/1 🧥 🔍 ↔		SAP CI	RYSTAL F	REPORTS®
	David A Phillips Nmax for Grassland (Ta		Date: 09/04/18 Page 1 of 1		
Field Name SF IM13 IM14 NG 03 Totals	Grass Site Intended Area Class Use ha 8.25 3 Grazing with Low Clover 6.24 3 2 or 3 Cut Silage + Grazing 0.94 3 Grazing with Low Clover	Standard N Rate Total Nitrogen N from Organic N from Manufact M from Manufact kg kg kg kg kg kg kg ha 250 2063 0 2063 250 290 1810 0 1810 290 250 235 0 235 250 250 4107 0 4107 4107			
Current Page No.: 1	Total Page No.: 1	Zoom Factor: 100%		- 34 - 6	

7. 4. 6.Field Record Sheet (Table 11)

Calculates the Actual usage of Nitrogen on a Crop. Each field is shown with its applications, the Nitrogen calculated and compared with the field limit. All Nitrogen for the fields growing the same crop is totaled and compared with the Nmax for that crop. Warnings are shown if the Nmax is exceeded.

(m)	N Da	1.14	-	400	- kt				10 00	@	Υ.															
	8	H	4	1	M	4	_	_	/9 🕅		1	_	_	_	_	_	_	_	_	_	_	_	_		SAP CRYS	JTAL R
_										Ir	שאל	id A Pl	aillin										ï	Dato	09/04/18	
									Fi					able 11)											re 4 of 9	
												i a one		ubic i ij											6	
																							Harv	est Yea	ar: 2017	
						Limit:	3	121.0) 4	ctual I	N:	117.1	4	Fotal N:	215.54					306.58	460.0	0				
N	IG 02					(OMS		6.3	6 Ha	N	D/ 4 3846	/4406	8			6 Ha									
							-			<u>2000</u>	Inor	ganic I	litrog	en			- Organie				Field					
	<u>)ate</u> Applied	Cron						ate	Descr	intion					Total N Applied		Nitroge Analysi			Total N Applied	Limit	Commer				
	1/03/17			rlev				1/04/17		ipuon				Kg /ne	Applieu	1				1059.70	[230]	Commen	<u>n</u>			
2	0/03/17	Sprir	Ig B	arley			0	1/04/17	20-10	10				277.72	353.26											
3	0/04/17								34.5%					178.54												
	0	VER	3Y 6	14 /ŀ	la>	Limit:		111.0	0 4	ctual I	N:	117.1	4	Total N:	745.01					1059.70	1590.0	0				
N	IG 05					10	OMS		7.8	0 Ha	N	0/44145	4357	4			0 Ha									
3	100								100	and the second	Inor	ganic I	litrog	en		-	- Organie	c Nitr	ogen -		Field					
)ate	Cron						ate own	Descr	iption				Rate	Total N Applied	Man	Nitroge Analysi		Kate	Total N Applied	(250)	Commor				
10	o/03/17	Sprin	a B	rlev					20-10						433.25	Rei	Analysi	5	/ <u>na</u>	Applied	12301	Commer	<u>n</u>			
3	0/04/17	Sprir	ig B	arley					34.5%					178.54												
						Limit:		138.0) 4	ctual I	N:	117.1	4	Total N:	913.69											
N	IG 12					1.00	OMS		3.4	9 Ha	N	0/44670	/4452	8		3.4	19 Ha									
														en			- Organie	c Nitr	ogen -		Field					
)ate	-						ate							Total N	Man	Nitroge	n	Rate	Total N		-	-			
E.	o/03/17	Crop	- P						Descr 20-10					277.72	Applied 193.85	Ret	Analysi	S	/ Ha	Applied	(250)	Commer	nt			
43	0/03/17	Sprir	a B	rlev					34.5%					178 54	214.97											
						Limit;		138.0		ctual I	N:	117.1	4	Total N:												
	IG 14						OMS		3 1	8 Ha	NO	0/44873	14451	2		31	8 Ha									
						8								en		100	- Organi	c Nitr	ogen -		Field					
)ate							ate				in the second	Service .	Rate	Total N	Man	Nitroge	n	Rate	Total N						
E	Applied	Crop		12					Desci	iption				kg /ha	Applied		Analysi			Applied	(250)	Commer	<u>it</u>			
	1/03/17							1/04/17	20-10	10				277.72	176.63	1	6.0	0	21.11	529.85						
3	0/04/17	Sprir	ig B	arley					34.5%					178.54												
			-			Limit:		121.0) [ctual I	N:	117.1	4	Total N:	372.50					529.85	795.0	0				
N	IG 15					1.0	OMS		5.5	1 Ha	N	0/44949	/4436	0		5.5	i1 Ha									
														en			- Organi	e Nitr	ogen -		Field					
)ate	6						ate	Dec						Total N		Nitroge			Total N		Comme				
	1/03/17			vola				own 1/04/17	Descr	iption				kg /ha	Applied		Analysi 6.0			Applied 918.08	(200)	Commer	IL			
0	105/17	ophi	9.0	atey			0	104/11								121.1	0.0		21.11	510.00						

Each field is shown with its applications, the Inorganic Nitrogen application is calculated and compared with the field limit. All Nitrogen for the fields growing the same crop is totalled and compared with the Nmax for that crop. Warnings are shown if the Nmax is exceeded.

Organic Manure application are shown and the Nitrogen calculated. Warnings are shown where the field limit is exceeded.

Total Nitrogen applied in each class is calculated at the end of the report.

7. 4. 7.Annual Fertiliser Inventory (Table 12)

List all the Fertilisers used or in stock in the current year.

Annual Fertiliser Inventory (Table 12)						9 <u>355</u>		×
	1 /1 🕅	€				SAP CR	IYSTAL R	EPORTS
	David A I	141,600000000000000000000000000000000000	- 40		Date: 09/04/18			Î
	Annual Fertiliser Inv	ventory (Tabi	e 12)		Page 1 of 1 Harvest Year: 2017			
Item Name	Opening Stock	Purchases	Usage	Closing Stock				
0-24-24 20-10-10	-0.002 0.000	0.000 18.000	0.000 18.000	-0.002 0.000				
34.5% N 8-24-24	8.000 0.000	100.000 15.000	90.024 15.000	17.976 0.000				
Total of 4 Items Listed.								
Current Page No.: 1	Total Page No.:	1		Zoom	Factor: 100%		31	

Takes all the Fertilisers with opening stock at the beginning of the Year. Purchases are taken from the Fertiliser records. They are entered in Stock Events, Stock Receipts. Usage is taken from Individual field records. Closing stock is calculated from the above three.

7. 4. 8. Organic Manures - Imports / Exports (Table 13)

Displays a list of the imports or exports of organic manure from the farm.

📓 Organic Manures - Imports, B	▶ 1 /1 @ €, -		SAP CRY	STAL REPORTS
	High End Farm Organic Manures - Imports & Exports (Table 13)	Date: 03/04/18 Page 1 of 1	
			Harvest Year: 2016	
		Nitroge	Contracting the second state of the second	
Date Quantity	Manure	kg /t	Received from / Supplied to	
	R) Broiler/Turkey Litter, Stored Uncovered R) Broiler/Turkey Litter, Stored Uncovered	25.00 25.00	Oaklands Egg Producers Oaklands Egg Producers	
	R) Broiler/Turkey Litter, Stored Uncovered	25.00	Oaklands Egg Producers	
	R) Broiler/Turkey Litter, Stored Uncovered	25.00		
Totals Received: 7	85.000 Supplied: 0.000			
<				~
Current Page No.: 1	Total Page No.: 1		Zoom Factor: 100%	

Entered in the NVZ section and Organic Manure Movements.7

-65-

7. 7. 9. Nmax for WOSR (Table 16)

Calculates the Nmax for Autumn applications of N on winter oilseed rape.

🖹 Autu	mn N on WOSR (Table 16)					<u>100</u>		×
£ 5		1	/1 🚜 🤄	\$ +		SAF	CRYSTAL R	
		Autu	David A umn N on W		16)	Date: 09/04/18 Page 1 of 1		^
	Field Name IM 05 Cotter IM 06 North Eat Bank LM 02 LM 05 NG 10 Totals	<u>SF</u>	Crop Prev Area Crop ha 10.17 WB 5.10 WB 5.13 SB 5.06 SB 9.51 WB 34.97	Standard N Rate kg N /ha 30.00 30.00 30.00 30.00 30.00 30.00	N to be Applied 305.10 153.00 153.90 151.80 285.30 1049.10			
Current Pa		T	otal Page No.: 1			Zoom Factor: 100%		~

7. 7. 10 Slurry Production (Table A)

Calculates the weekly production of Nitrogen in slurry.

👔 Slurry Productio	n (Table A)					-	48		×
£ 5 2 h	H 4 F H 1 /1 M G	•				S	AP CR	IYSTAL RI	EPORTS
	High End Farr Slurry Production (1					Date: 03/04/18 Page 1 of			Î
					a second second	rvest Year: 2017	,		
Code	Description		Nitrogen per Head		and the second s				
B17 D12 D14	Bull Beef (3 months and over) Dairy Cow (6000 to 9000 litre milk yield)	75 140	0.18	27 27	364.50 1398.60 226.80				
Totals	Dairy Heifer Replacement (13 months to first call	5 30	0.28	27	1989.90				
<									>
Current Page No.: 1	Total Page No.: 1			Z	oom Factor:	100%			

Figures are entered in the NVZ Section, FYM and Slurry Production.

7. 4. 11 Poultry Manure (Table N)

Calculates the annual production of Poultry Manure.

Figures are entered in the NVZ Section, FYM and Slurry Production.

7. 4. 12 FYM Production (Table Q)

Calculates the FYM Production based on the Livestock on the Farm.

FYM Production	n (Table Q)						37		×
4 3 8 h	/1	₩ 🔍 +			_		SAP C	RYSTAL R	
		nd Farm tion (Table Q)					03/04/18 ge 1 of 1		
	1 millioude				н	arvest Ye			
Code B11 B18 B20 Totals	Description Beef Suckler Cow (over 500kg) Bull for Breeding (over 25 months) Calf (up to 3 months)	No of Animals 85 2 60	Excreta per Head per Week 0.32 0.18 0.05		Straw Addition Factor 1.15 1.15 1.15	Value	Total Manure 1072.46 14.19 39.43 1126.08		
Current Page No.: 1	Total Page No	p.: 1		Z	oom Facto	nr: 100%			

Figures are entered in the NVZ Section, FYM and Slurry Production.

This section allows you to create reports to your own specification. Any information held within a field record can be incorporated into a report in this section. These report formats can be saved and reproduced at any time.

Barley Margin Wheat Fields Limings Last 5 years				^
				~
	Current Fields:	Non Curre	nt Fields:	

To create a new report:

Click New on the Bottom Button Bar. Enter the Name of the new report. This is the name the report will be stored as.

You may now pick the parameters of the report form the scrolling screen as shown below.

Rep	ort Title: Wheat I	Fields		c	olumns Used:	77]
_	Heading	Len	Lower	Upper	Incl	Rank	^
۲	Field Name	35			\checkmark		
	Field Size	9					
	2nd Units	20					
	2nd Size	9					
	OS Number	16					
	Map Reference	16					
	Land Class	10					
	Soil Type	26					
	Sub Soil Type	26					
	Holding	20					
	Field Comment	41					
	Comm Date	11					
	Harvest Year	8	2010	2017		1	
	Crop Size	9					
	Crop Size 2	9					
	Сгор	21	ww				

There are three stages to creating the report layout.

Firstly, set the limits on what you want to include in the report. Click in the **Lower** box of the item you wish to limit, you will be asked to select the bottom limit and the upper limit of your selection. You may also be given a list to select from where there are a limited number of preset options. As an example, you may wish to limit one crop or variety or crop year or below a pH level.

Secondly, to include headings in the report click the box under **Incl** to show **Yes**. The order in which you click this selection is the order in which the headings are laid out across the paper. The number of columns each heading takes in a report is shown in the **Len** Column. The total characters of all selected headings is shown at the top of the report.

Thirdly, the Sort order of the report is set by the end column under **Rank.** If you want the report sorted by a particular heading click in the rank box of that heading. This will be the first sort criteria. Should you wish to sort further within the first choice then click in you second chosen option rank box. An example of this may be to sort firstly by Crop and then within crop by Variety.

Click OK to save your report format.

To display or print a report:

Highlight the report you wish from the list. Select whether you wish to include Current and / or Non-Current fields.

Click **Display** or **Print** on the Bottom Button Bar.

To change the format of an old report:

Highlight the report you wish from the list. Click **Old** on the Bottom Button Bar and the report format will be display for editing.

To delete an old report:

Highlight the report you wish to delete and click **Delete** on the Bottom Button Bar.

Highlight the report you wish from the list. Select whether you wish to include Current and / or Non-Current fields.

Click **Display** or **Print** on the Bottom Button Bar.

To change the format of an old report:

Highlight the report you wish from the list. Click **Old** on the Bottom Button Bar and the report format will be display for editing.

To delete an old report:

Highlight the report you wish to delete and click **Delete** on the Bottom Button Bar.

You are strongly advised to make backup copies of your data. To do a backup you can use the utility supplied with the program which is located under the File menu.

) All Da	ta: Business:
) Selec	ted Businesses:
1	High End Farm David A Phillips

You may select to backup all data, in which case all businesses within the system will be saved, this business which saves only the business in which you are currently working or selected business. If you choose selected businesses you must highlight those you wish to save by clicking on the list.

Click Next and you will be asked where you wish to put the backup. The default is A:\CROPdata.zip. To change the location, you click the browse button and select your location.

To:	e:\CROPdata.zip
	Browse
-	
⊴ Cł	neck Backup Disks for Errors (Recommended):
rogre	
rogic	
2 of 4	8 files(FARMDATA/ARABLE32/ARASRP.CSV)

Click start and the backup will begin.

To restore data from a backup created by the above routine use the utility supplied with the program which is located under the File menu. If you are restoring data it is advisable to do take a backup of the current data first.

Click on Restore Data

From:	e:\CROP	data zip		
	Browse	•		

The default path will be where you last did a backup. If your backup file is located elsewhere you can use the browse button to locate it.

Click Next to start the restore.

No	Name	0.92	
1	High End Farm		
2	David A Phillips		

Select the businesses you wish to restore by clicking on them. Click Start to begin the restore.