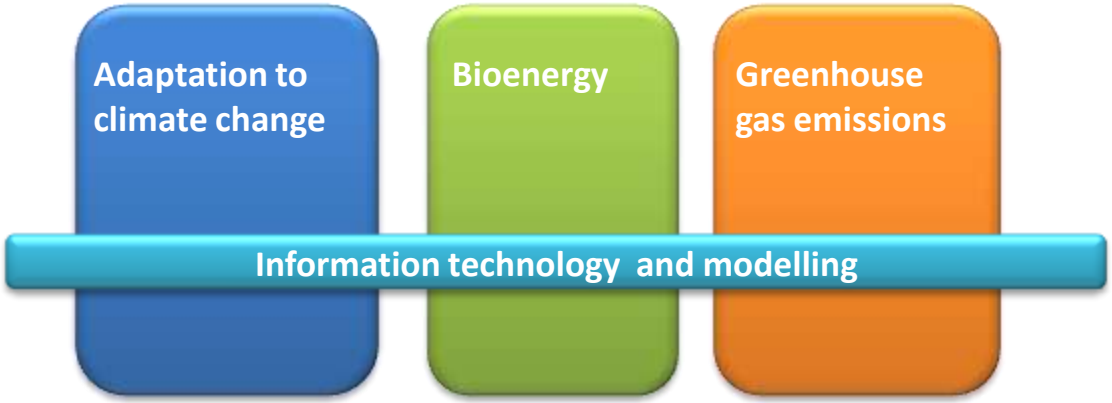
Landmanden og beslutninger

Allan Leck Jensen

Informatik og Beslutningsstøtte

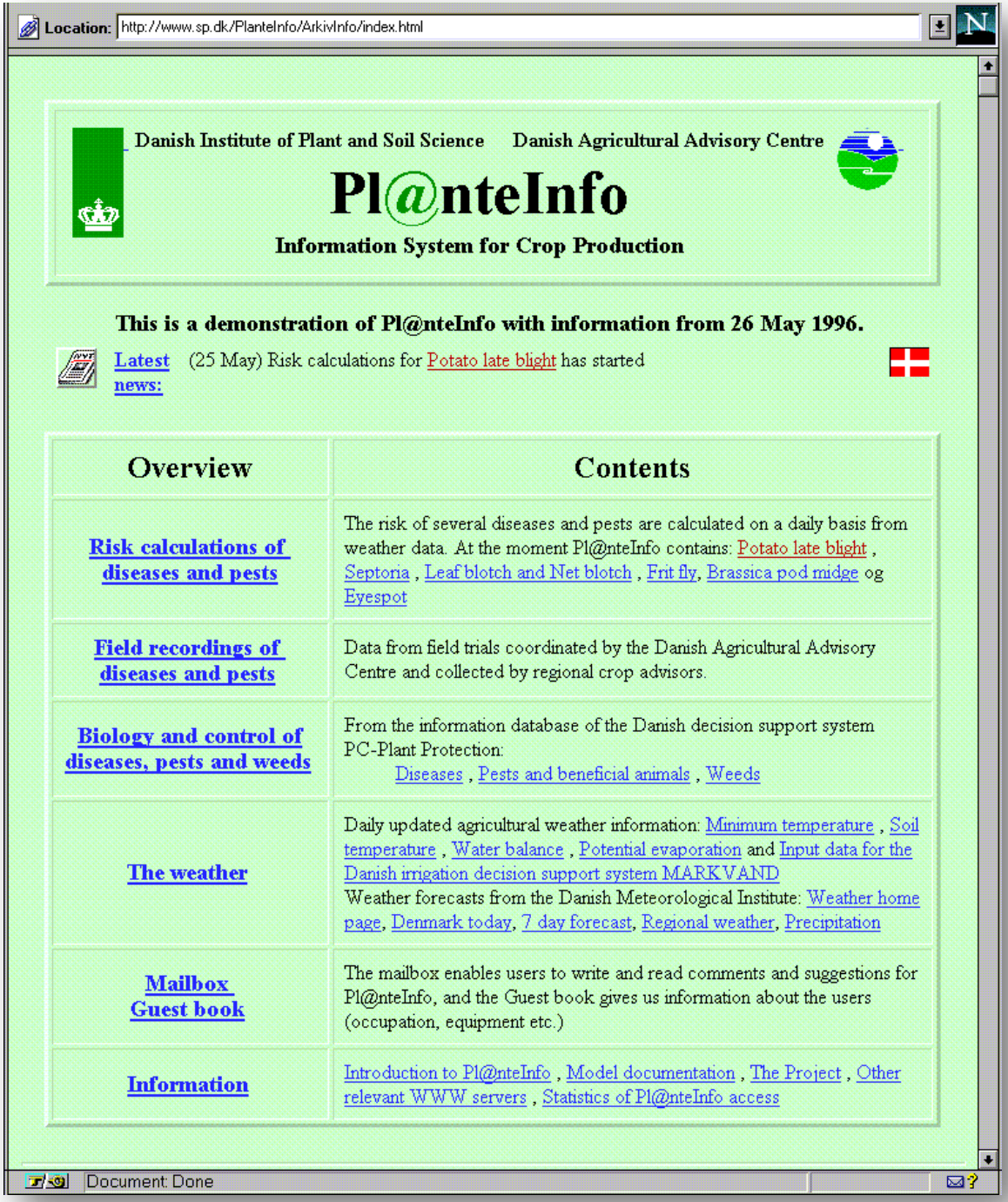
- 1991: Statens Planteavlsforsøg
- 1997: Danmarks JordbrugsForskning
- 2007: Aarhus Universitet,
  Det Jordbrugsvidenskabelige Fakultet
- 2011: Aarhus Universitet,
  Fakultet for Naturvidenskab og Teknologi

Forskergruppe:
Klima og bioenergi



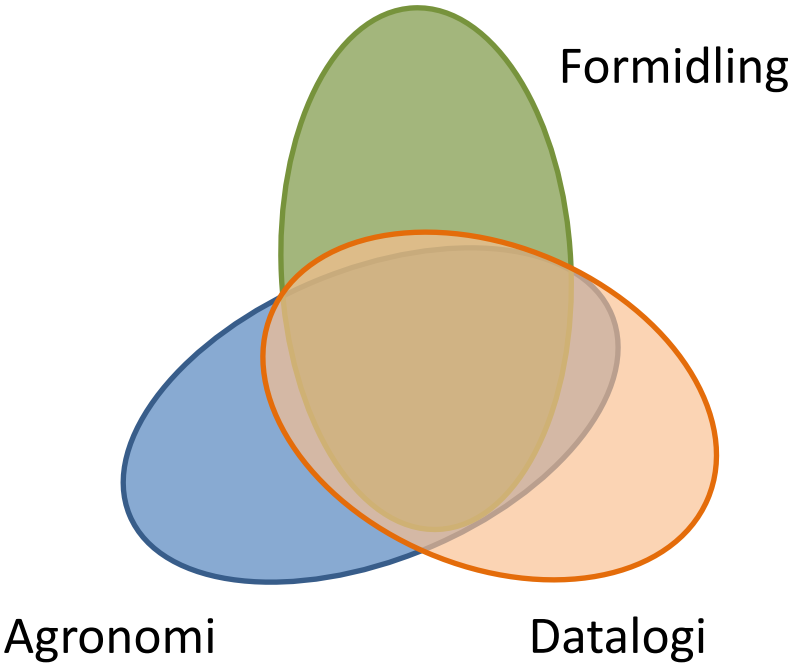
Web applikationer 1996-2010

2 days weather forecast
7 days weather forecast
AG2020
ALFAM
Amaranth
Ammonia volatilization
BeeInfo
Blight Management
BurPlan
CertCost
Cost718
Critical harvest day of carrots
Daisy - Need for additional fertilization
Danish Universities Frontier Program
Database for national variety testing
eAdvice
Endure
EucaBlight
EuroBlight
EuroWheat
eWarnings
FarmN
FASSET
FertOrgaNic
Field recordings in Google Maps
Field recordings on mobile
Forecast of grass growth and quality
FruitQuality
GroFrIT
Gysse/NJFjord
Harvest forecasts
HortInfo
IAT
Irrigation Manager
Karoline/NJFjord
KlimaNet
LBNordic
LowP
MoVeTracker
NegFry DK
NegFry LT, LV, EE and PL
Nmin
NP-Risikokort
Optimal harvest time of apples
OrganicHACCP
PlanteInfo
PlanteInfo Mobile
Polish-Baltic web sites
Prediction of firmness of pears
Prediction of maize growth
Q_PorkChains
Rain forecast animation
Risk models for crop diseases and pests
Roses online
SAFIR
Scandinavian Long Term Experiments
ScanTurf
Skimmel
Soil temperature
SoilCompaction
SortInfo
SortsValg
Tracing product history with mobile camera
UgandaDairy
Vandregnskab
Water Balance
WaterWeb
Weather forecast animation
Weather observations
Weather radar animation
WebBlight
WebComponents

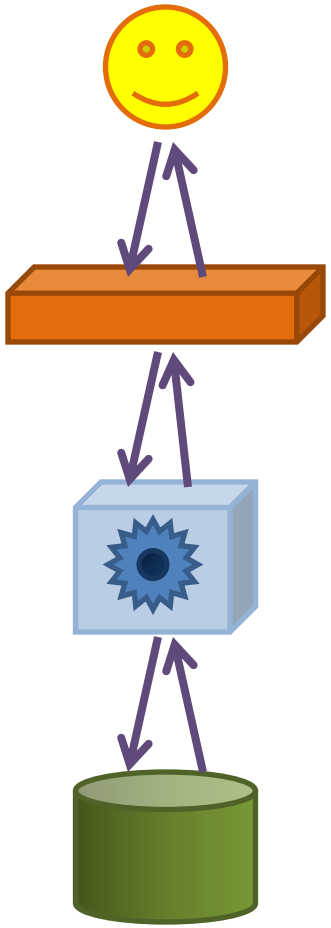

Location: http://www.sp.dk/PlanteInfo/ArkivInfo/index.html
Danish Institute of Plant and Soil Science
Danish Agricultural Advisory Centre
Pl@nteInfo
Information System for Crop Production
This is a demonstration of Pl@nteInfo with information from 26 May 1996.
Latest news:
(25 May) Risk calculations for Potato late blight has started
Overview
Contents
Risk calculations of diseases and pests
The risk of several diseases and pests are calculated on a daily basis from weather data. At the moment Pl@nteInfo contains: Potato late blight , Septoria , Leaf blotch and Net blotch , Frit fly, Brassica pod midge og Eyespot
Field recordings of diseases and pests
Data from field trials coordinated by the Danish Agricultural Advisory Centre and collected by regional crop advisors.
Biology and control of diseases, pests and weeds
From the information database of the Danish decision support system PC-Plant Protection:
Diseases , Pests and beneficial animals , Weeds
The weather
Daily updated agricultural weather information: Minimum temperature , Soil temperature , Water balance , Potential evaporation and Input data for the Danish irrigation decision support system MARKVAND
Weather forecasts from the Danish Meteorological Institute: Weather home page, Denmark today, 7 day forecast, Regional weather, Precipitation
Mailbox Guest book
The mailbox enables users to write and read comments and suggestions for Pl@nteInfo, and the Guest book gives us information about the users (occupation, equipment etc.)
Information
Introduction to Pl@nteInfo , Model documentation , The Project , Other relevant WWW servers , Statistics of Pl@nteInfo access
Document: Done

Fælles træk

- Web-baseret
- Dynamisk
- Interactiv
- Skræddersyet
- Added value



Typisk struktur af applikationer



Bruger

Præsentation

Model

Database

Pl@nteInfo

KONTAK

Forside | Vejret | Afgrøder | Planteværn | Vand | Jord | Kvælstof | Sorter | Bier | Links | Hjælp | Statistik | E

Ammoniakfordampning ved udbringning af gylle

2 døgns prognose | 7 døgns prognose | 2010 | Marts

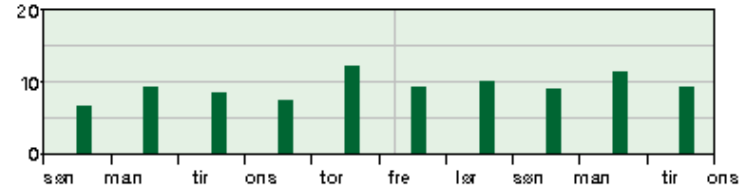
Valgt

Fourdsætninger

Gylletype	Kvæggylle
Tørstofindhold (%)	5
NH_3 indhold (g N/kg)	3
Gylle pr. ha (tons/ha)	30
Udbringningsmetode	Slæbeslange
Nedpløjning, timer efter udbringning	6
Gylle pr. time (tons/time)	100
Ha i alt	10
Start timer efter kl. 24	8
Tør / våd jord	Beregnes fra vejrdata.

Vis

Ammoniakfordampning, kg N pr. ha



Søjlerne viser for hver dag hvor meget ammoniak der fordamper, hvis gødningen er udbragt netop den dag.

Temperatur (°C)

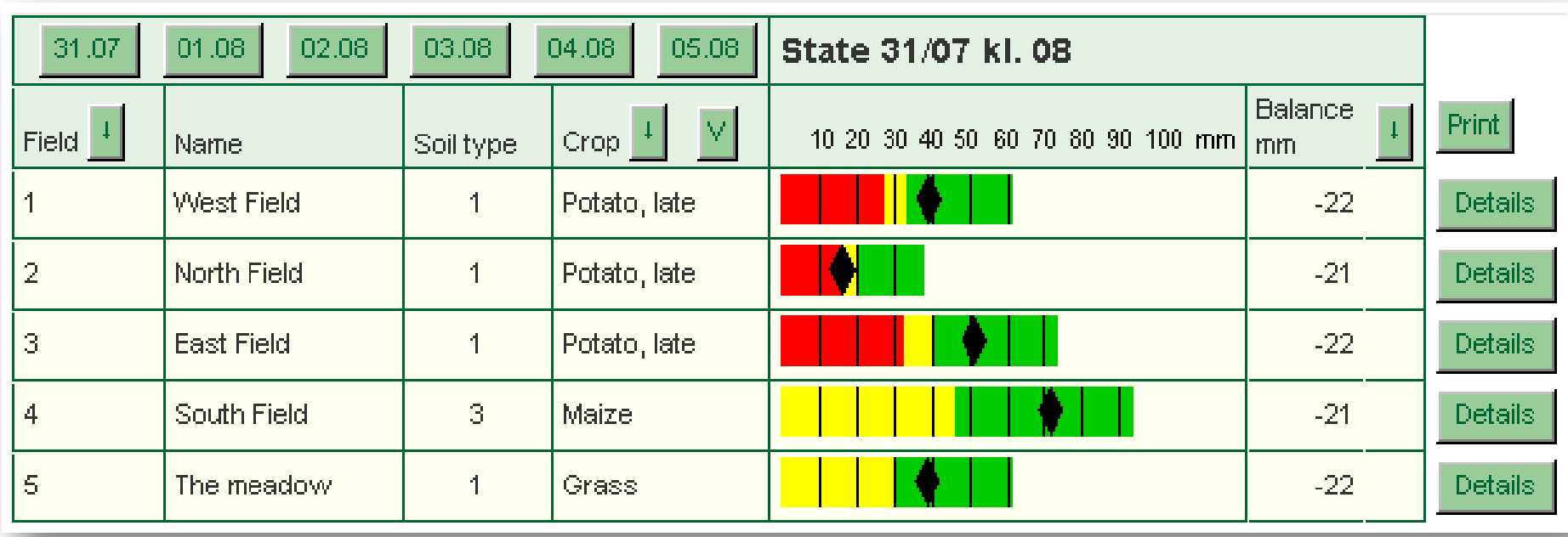
Vindhastighed (m/s)

Applikationen beregner den totale ammoniakfordampning i op til 3 døgn fra en udbringning af gylle til bar jord eller afgrøder mindre end 10 cm. Nedfældning er i 5 cm. Mængden af udbragt gylle er defineret ved gylle pr. time samt første og sidste time.Beregningen baseres på en model udarbejdet i EU-projektet ALFAM.

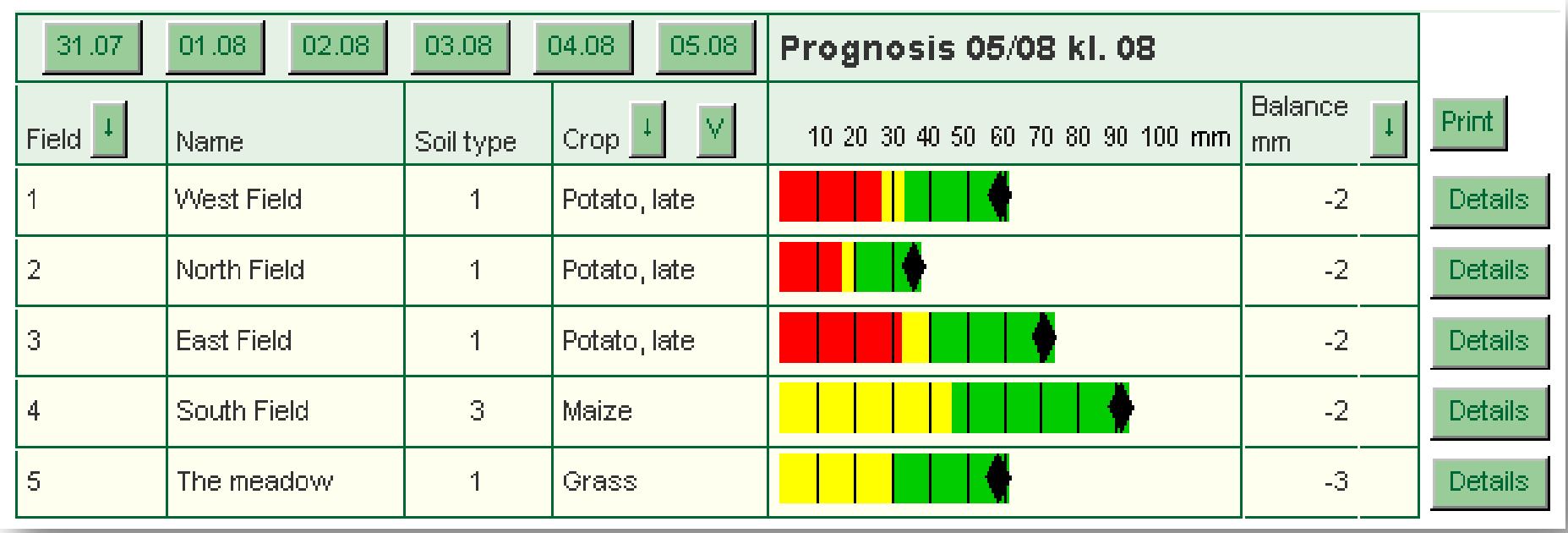
Litteratur:

Søgaard, H.T., Sommer, S.G., Hutchings, N.J., Huijsman, J., Bussink, W. & Nicekson, F. 2001. Ammonia volatilization from manure applied to fields - data collection for an EU database and its statistical analysis.DIAS report no. 21, Animal Husbandry, 174-187.

PlanteInfo - Vandregnskab



PlanteInfo - Vandregnskab



31.07	01.08	02.08	03.08	04.08	05.08	Prognosis 05/08 kl. 08		
Field ↓	Name	Soil type	Crop ↓ V	10 20 30 40 50 60 70 80 90 100 mm	Balance mm ↓	Print		
1	West Field	1	Potato, late		-2	Details		
2	North Field	1	Potato, late		-2	Details		
3	East Field	1	Potato, late		-2	Details		
4	South Field	3	Maize		-2	Details		
5	The meadow	1	Grass		-3	Details		

PlanteInfo - Vandregnskab

Field no. 2 North Field Potato, late

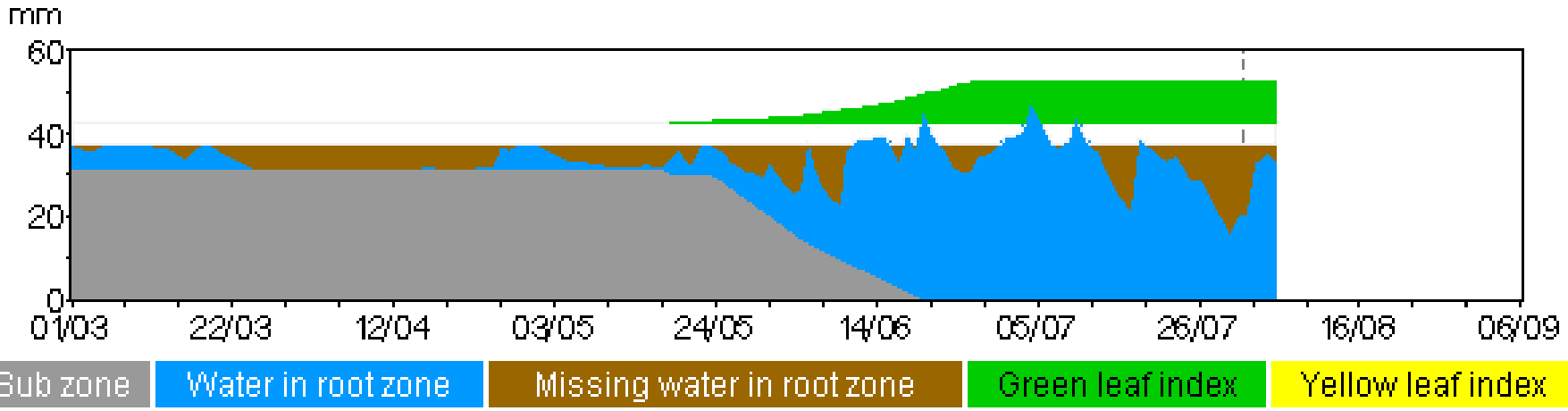
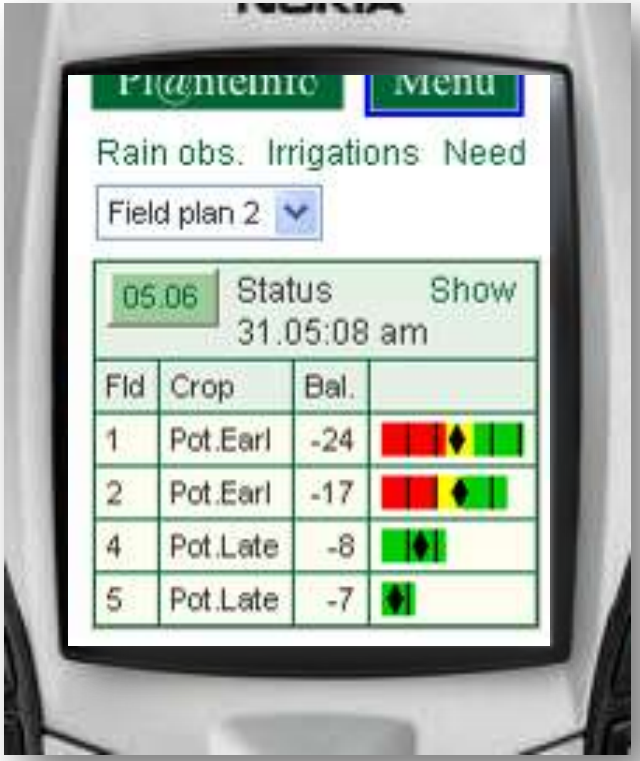
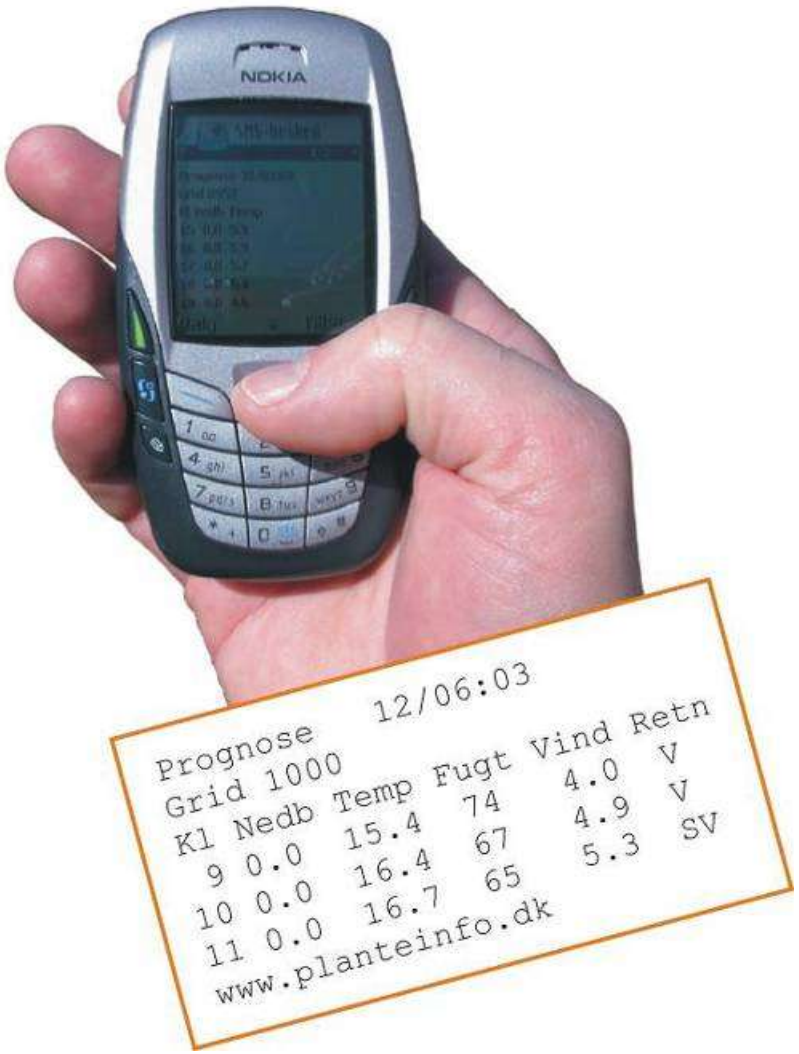


Fig. A. Soil water and leaf index Explanation (in Danish)

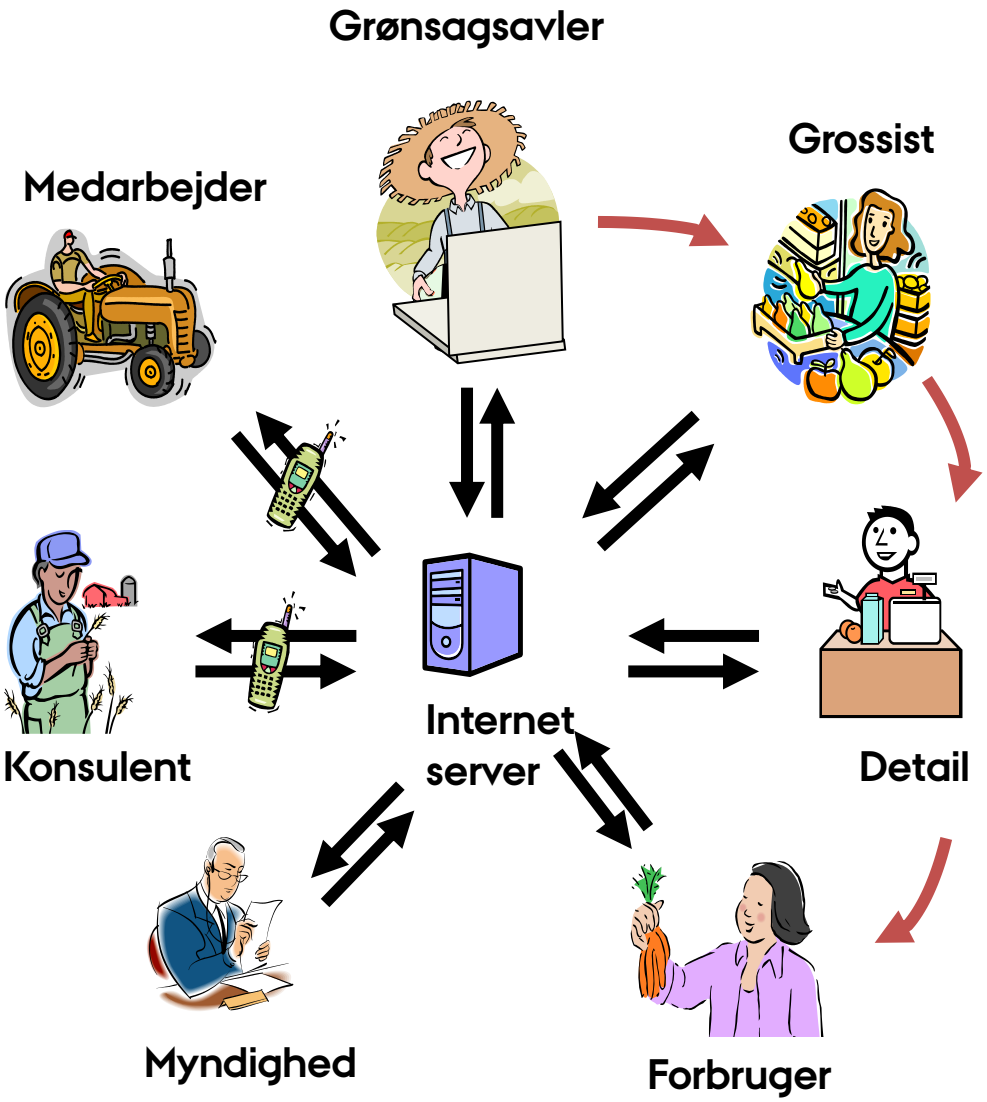
PlanteInfo mobil



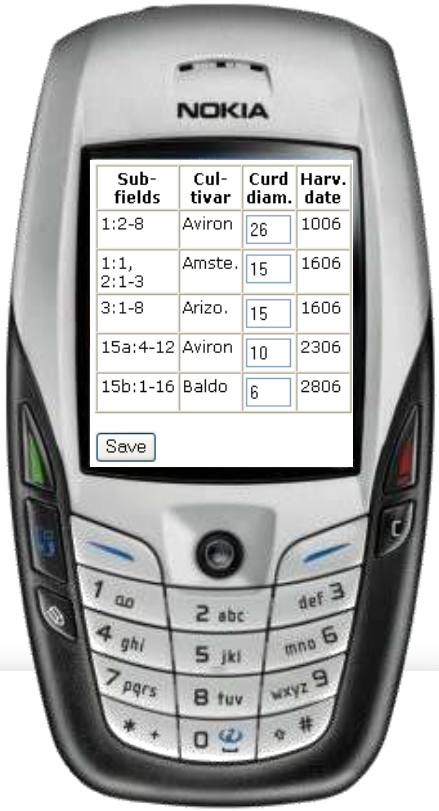
PlanteInfo – SMS formidling



Grønt og Frugt IT (GroFrIT)



Høstprognose, blomkål (avleren)

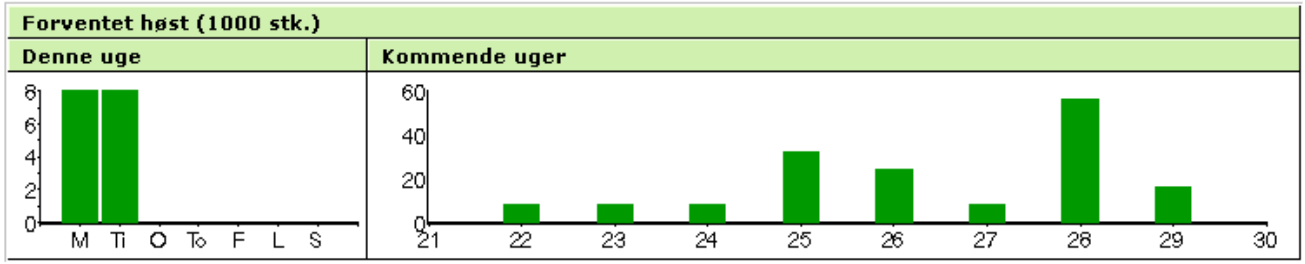


Harvest forecast, cauliflower

Subfields	AMIS grid no.	Team	Cultivar		Planted		Sample		Harvest diameter	Forecast harvest		
			Name	Type	Date	Number	Date	Diam.		Date	Day	Week
1:2-8	950	24-05	Aviron	Early	280405	5000	180505	26	140	100605	Fri	23
1:1, 2:1-3	948	24-05	Amsterdam	Medium	030505	5000	200505	15	140	160605	Thu	24
3:1-8	950	15-05	Arizona	Medium	030505	6500	200505	15	140	160605	Thu	24
15a:4-12	948		Aviron	Early	100505	8000	270505	10	140	230605	Thu	25
15b:1-16	948	33-05	Baldo	Medium	120505	10000	270505	6	140	280605	Tue	26

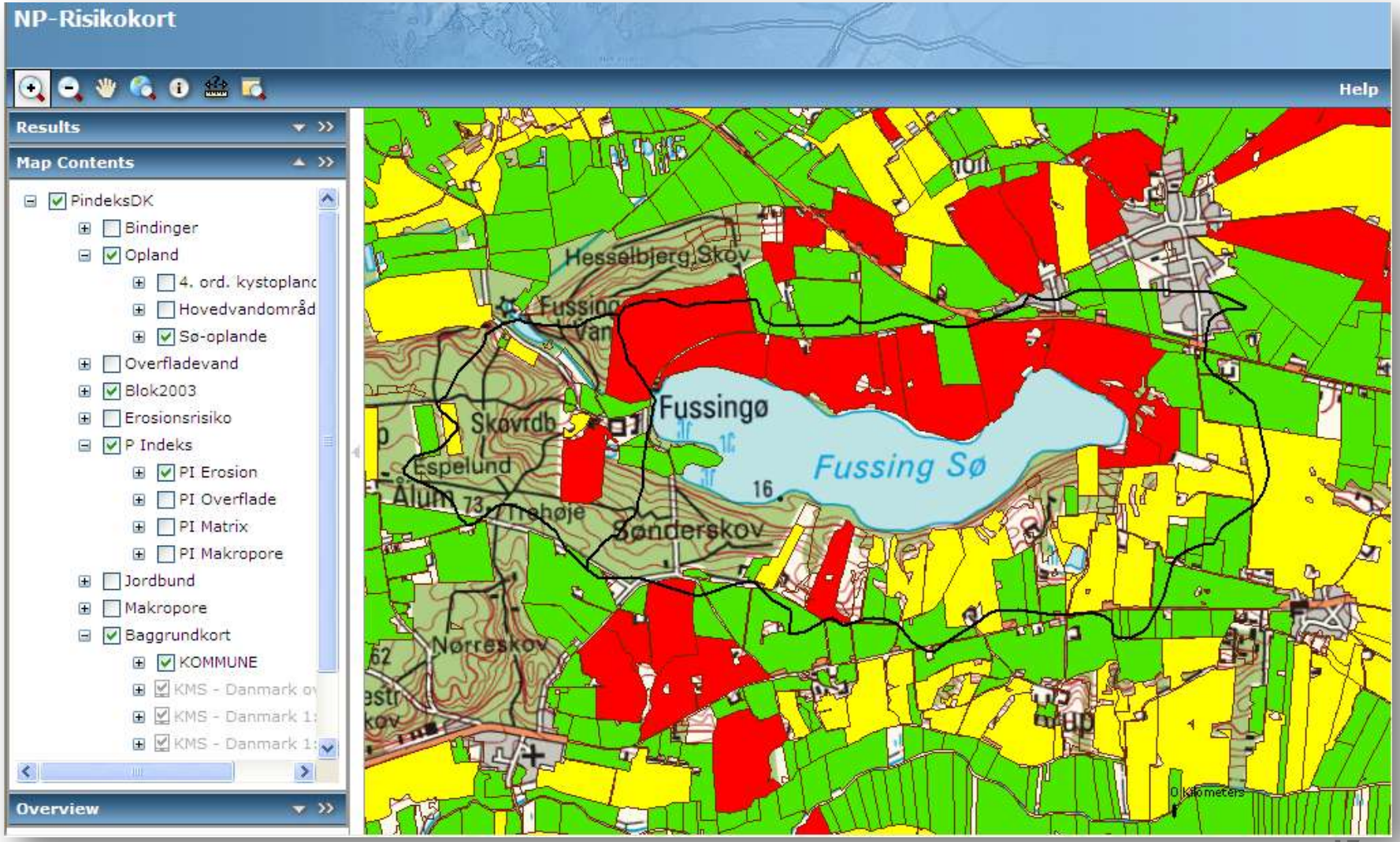
Høstprognose, blomkål (grossist)

Week	No. crops	No. curds
23	2	6000
24	5	17700
25	1	8000
26	1	10000

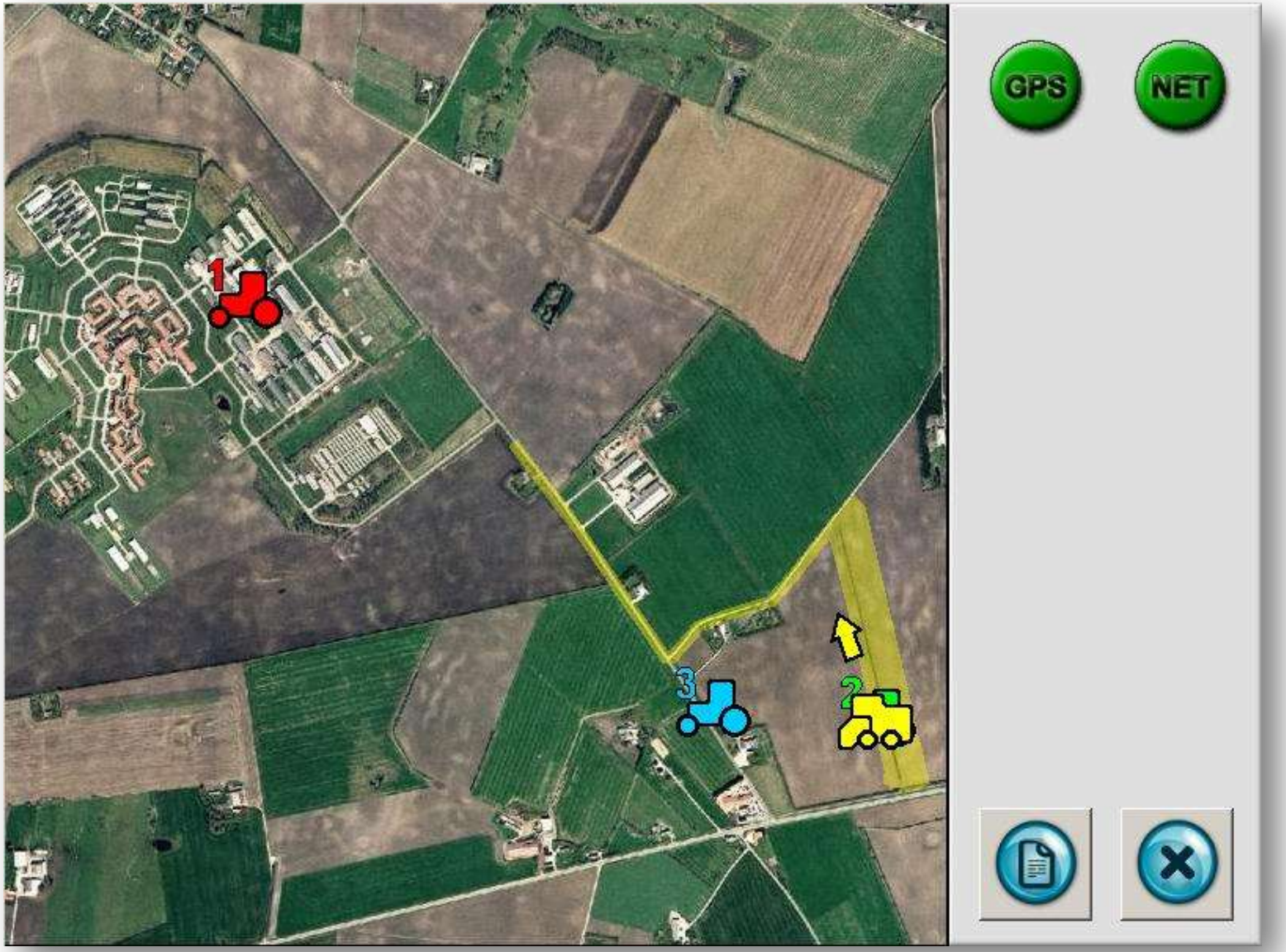


Grower						
Gert Gartner						
Henivejret						
Henivejret						
Gert Gartner	Amsterdam	5000	140	160605	Thu	24
Gert Gartner	Arizona	6500	140	160605	Thu	24
Henivejret	Baldo	3000	150	160605	Thu	24
Henivejret	Fastnet	1500	145	160605	Thu	24
Gert Gartner	Aviron	8000	140	230605	Thu	25
Gert Gartner	Baldo	10000	140	280605	Tue	26

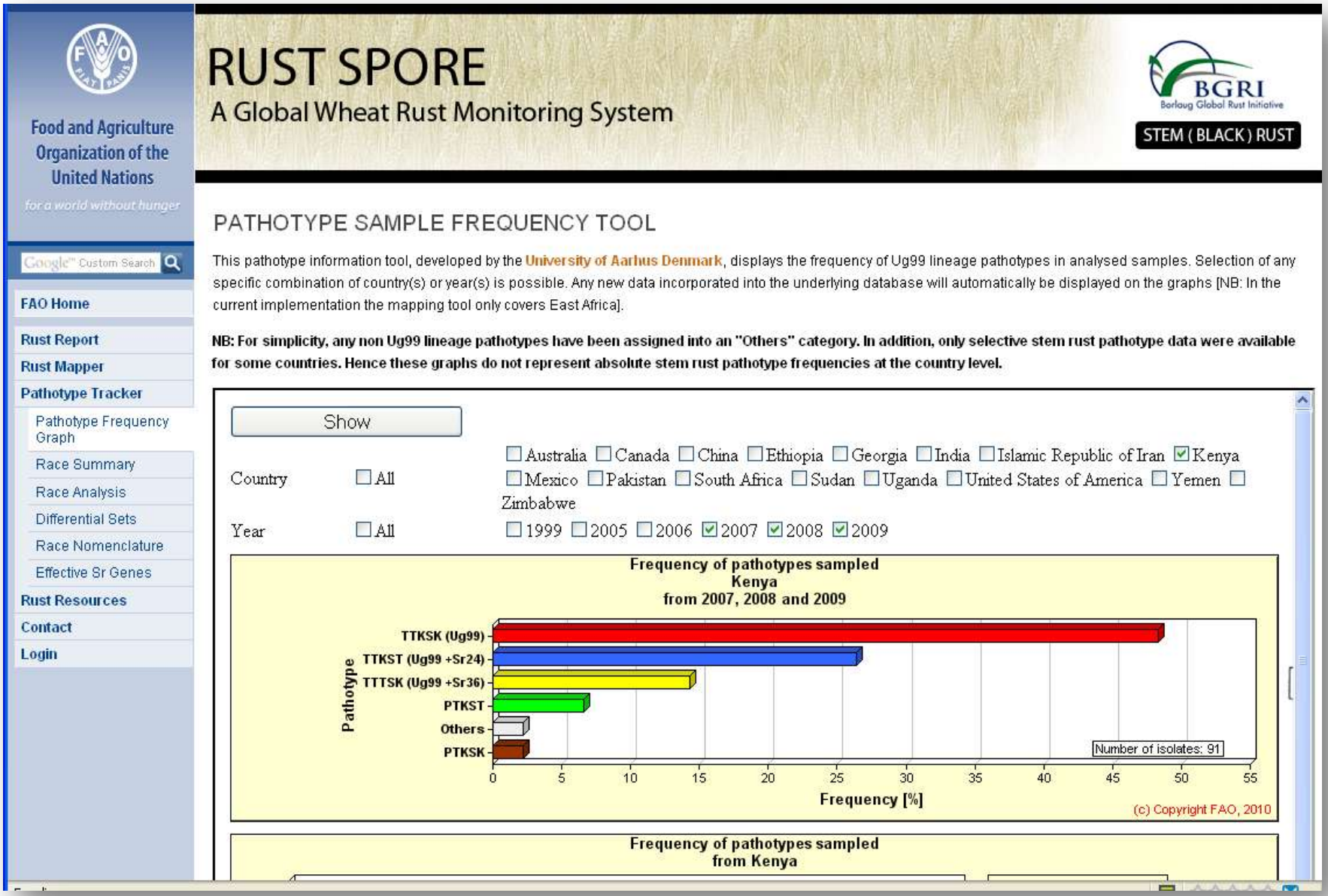
NP-Risikokort.dk



MoVeTracker – Mobile Vehicle Tracker



FAO – Global Wheat Rust Monitoring



FAO – Global Wheat Rust Monitoring

Wheat Rust Toolbox

Home Input Partners

The Wheat Rust Toolbox

The Wheat Rust Toolbox is hosted by Aarhus University to support the Global Wheat Rust Monitoring program operated by FAO. The toolbox will hold databases, display applications and web data-entry forms for its partners.

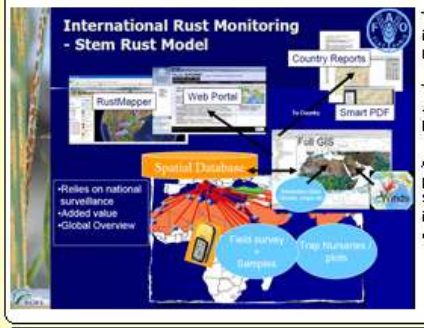
All results will be disseminated via the FAO information system RUST SPORE A Global Wheat Rust Monitoring System.

Contact Details
For more information about the Global Cereal Rust Monitoring System at FAO, please contact:

Wheat Rust Disease Global Programme
FAO, AGP Division, Room C797,
Viale delle Terme di Caracalla,
00153, Rome, Italy
Tel: +39 06 57052230
Fax: +39 06 57055271

Email: wheatrust@fao.org

Collaboration between FAO, CIMMYT and AArhus University



The collaboration between FAO and Aarhus University, Denmark include collaboration with the Global Rust Reference Centre (GRRC), to be established at Aarhus University 2010/11.

The Wheat Rust Toolbox, the Rust Spore information platform and the Global Rust Reference Centre (GRRC) are parts of the Borlaug Global Rust Rust Initiative.

Activities will include the development of common database platform + tools, on-line data entry, potential Global Ref Centre Stem Rust, Close linkage stem and yellow rust re information, inclusion of climate based disease risk models? and continued expansion, strengthening of global network

Web site provided by Aarhus University, Faculty of Agricultural Sciences, Department of Agroecology and Environment.
Report technical problems to webmaster: Poul Lassen.
Optimized for screen size 1024x768

25 August 2010

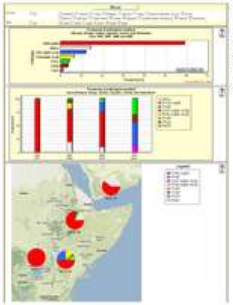
Login

Login name: alj
Password: ••••••

Login

Forgot your password?

Pathotype frequency



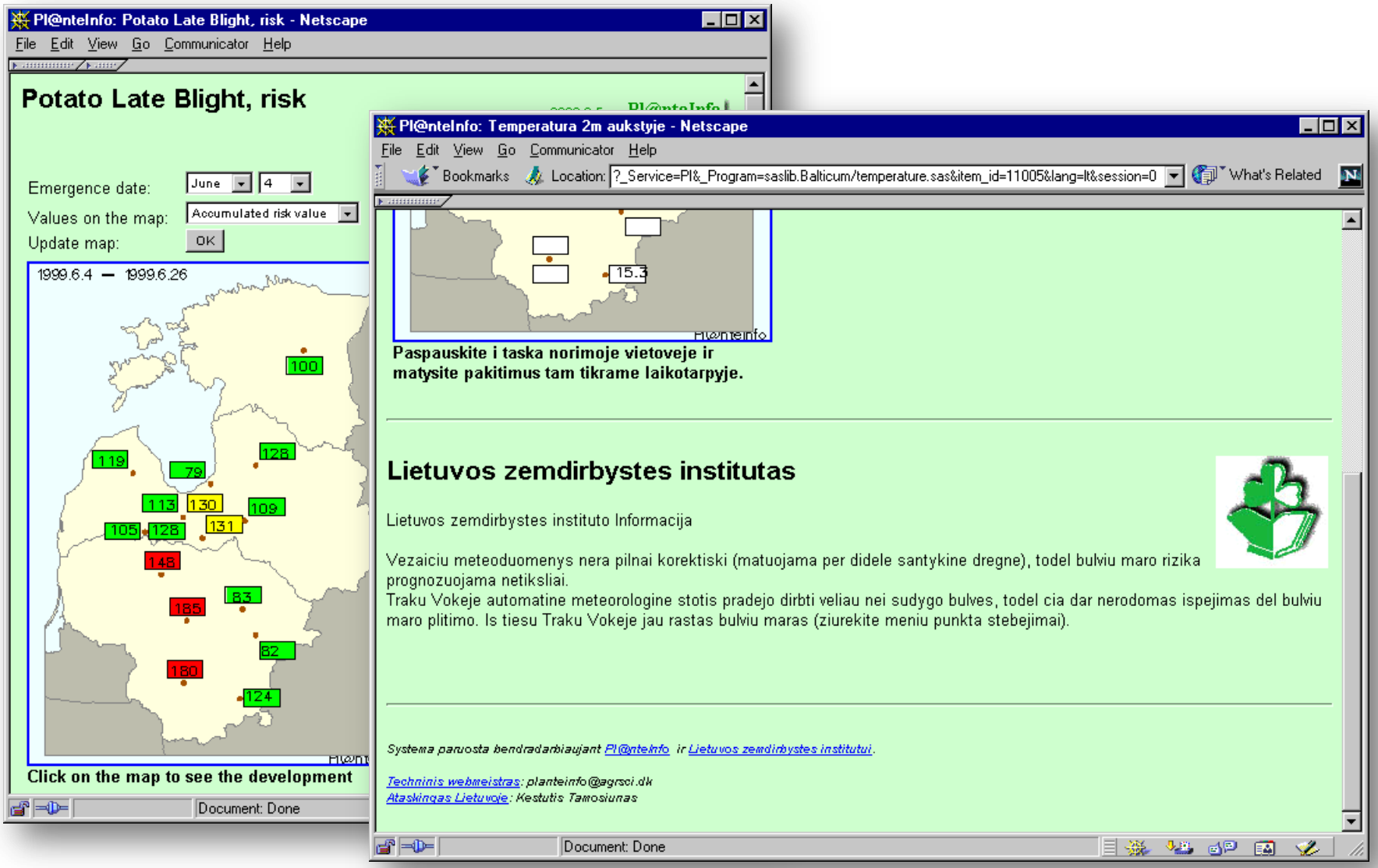
The Pathotype Sample Frequency Tool was launced in August 2010 and it is available on RUST SPORE here

Surveillance

A wheat rust surveillance database including a web based data entry tool will be operational later this year. The database will be integrated with the RUST SPORE information system at FAO and the RustMapper system organised by CIMMYT.

Andre eksempler …

PlanteInfo i Baltikum og Polen



Animeret nedbørsprognose

Nedbørprognose

Nedbør,
mm pr. time

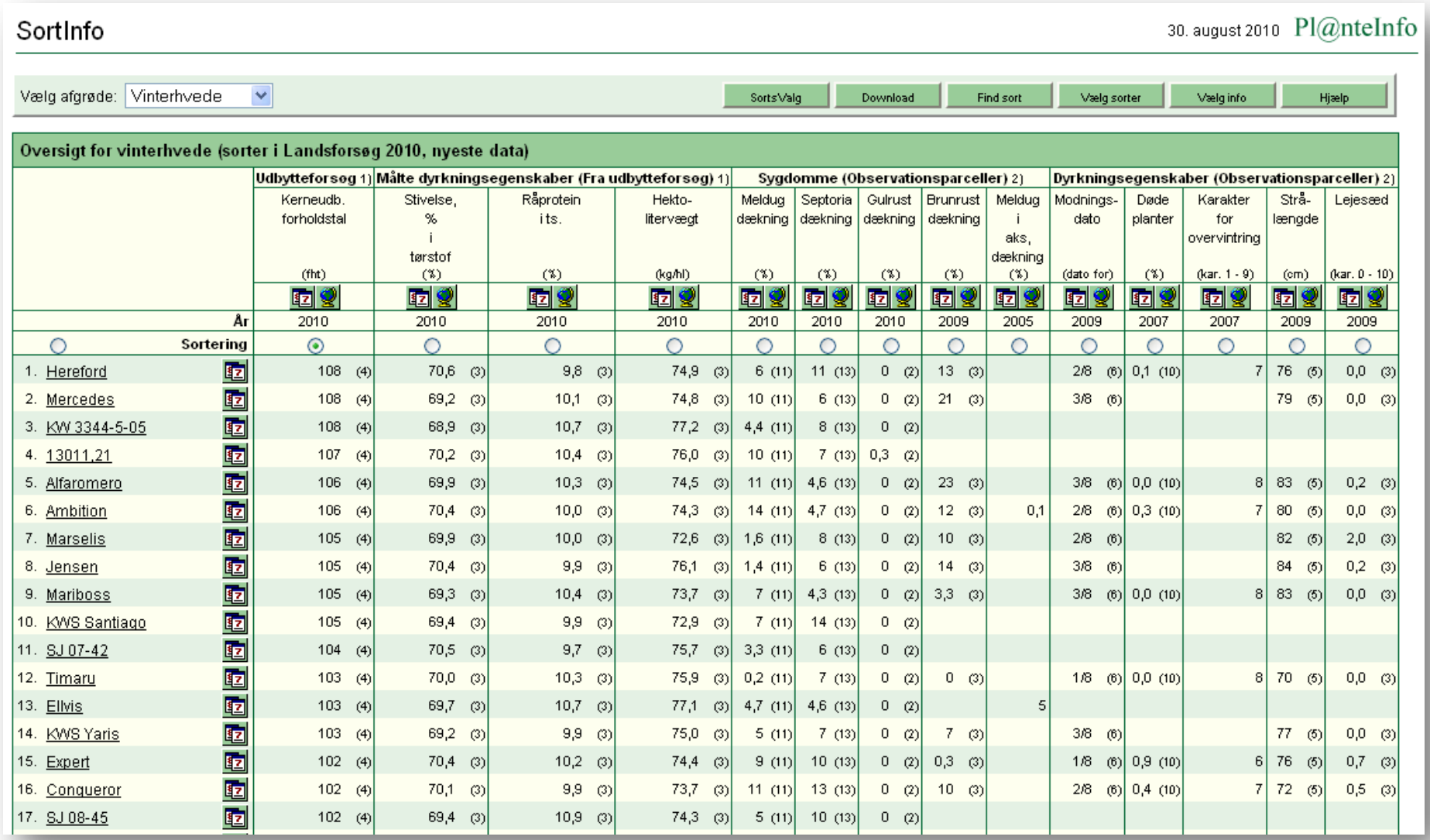
- 0.1
- 0.2
- 0.3
- 0.5
- 1.0
- 3.0
- 5.0
- 8.0
- 10.0

Prognosefilmen for nedbør viser prognosen time for time ifølge 2-døgnsprognosen.

På bjælken over Danmarkskortet kan man klikke sig ind på de enkelte timer i filmen. Farven på timen angiver prognosen for mængden af nedbør for den definerede *Her bor jeg*.

Redaktionen vurderer, at små mængder nedbør optræder for ofte.

SortInfo



SortInfo

30. august 2010 Pl@nteInfo

Vælg afgrøde: Vinterhvede

SortsValg | Download | Find sort | Vælg sorter | Vælg info | Hjælp

Oversigt for vinterhvede (sorter i Landsforsøg 2010, nyeste data)

		Udbytteforsøg 1)	Målte dyrkningsegenskaber (Fra udbytteforsøg) 1)			Sygdomme (Observationsparceller) 2)					Dyrkningsegenskaber (Observationsparceller) 2)				
		Kerneudb. forholdstal (fht)	Stivelse, % i tørstof (%)	Råprotein i ts. (%)	Hekto-litervægt (kg/hl)	Meldug dækning (%)	Septoria dækning (%)	Gulrust dækning (%)	Brunrust dækning (%)	Meldug i aks, dækning (%)	Modnings-dato (dato for)	Døde planter (%)	Karakter for overvintring (kar. 1 - 9)	Strå-længde (cm)	Lejesæd (kar. 0 - 10)
	År	2010	2010	2010	2010	2010	2010	2010	2009	2005	2009	2007	2007	2009	2009
	Sortering	◉	○	○	○	○	○	○	○	○	○	○	○	○	○
1.	Hereford	108 (4)	70,6 (3)	9,8 (3)	74,9 (3)	6 (11)	11 (13)	0 (2)	13 (3)		2/8 (6)	0,1 (10)	7	76 (5)	0,0 (3)
2.	Mercedes	108 (4)	69,2 (3)	10,1 (3)	74,8 (3)	10 (11)	6 (13)	0 (2)	21 (3)		3/8 (6)			79 (5)	0,0 (3)
3.	KW 3344-5-05	108 (4)	68,9 (3)	10,7 (3)	77,2 (3)	4,4 (11)	8 (13)	0 (2)							
4.	13011,21	107 (4)	70,2 (3)	10,4 (3)	76,0 (3)	10 (11)	7 (13)	0,3 (2)							
5.	Alfaromero	106 (4)	69,9 (3)	10,3 (3)	74,5 (3)	11 (11)	4,6 (13)	0 (2)	23 (3)		3/8 (6)	0,0 (10)	8	83 (5)	0,2 (3)
6.	Ambition	106 (4)	70,4 (3)	10,0 (3)	74,3 (3)	14 (11)	4,7 (13)	0 (2)	12 (3)	0,1	2/8 (6)	0,3 (10)	7	80 (5)	0,0 (3)
7.	Marselis	105 (4)	69,9 (3)	10,0 (3)	72,6 (3)	1,6 (11)	8 (13)	0 (2)	10 (3)		2/8 (6)			82 (5)	2,0 (3)
8.	Jensen	105 (4)	70,4 (3)	9,9 (3)	76,1 (3)	1,4 (11)	6 (13)	0 (2)	14 (3)		3/8 (6)			84 (5)	0,2 (3)
9.	Mariboss	105 (4)	69,3 (3)	10,4 (3)	73,7 (3)	7 (11)	4,3 (13)	0 (2)	3,3 (3)		3/8 (6)	0,0 (10)	8	83 (5)	0,0 (3)
10.	KWS Santiago	105 (4)	69,4 (3)	9,9 (3)	72,9 (3)	7 (11)	14 (13)	0 (2)							
11.	SJ 07-42	104 (4)	70,5 (3)	9,7 (3)	75,7 (3)	3,3 (11)	6 (13)	0 (2)							
12.	Timaru	103 (4)	70,0 (3)	10,3 (3)	75,9 (3)	0,2 (11)	7 (13)	0 (2)	0 (3)		1/8 (6)	0,0 (10)	8	70 (5)	0,0 (3)
13.	Ellvis	103 (4)	69,7 (3)	10,7 (3)	77,1 (3)	4,7 (11)	4,6 (13)	0 (2)		5					
14.	KWS Yaris	103 (4)	69,2 (3)	9,9 (3)	75,0 (3)	5 (11)	7 (13)	0 (2)	7 (3)		3/8 (6)			77 (5)	0,0 (3)
15.	Expert	102 (4)	70,4 (3)	10,2 (3)	74,4 (3)	9 (11)	10 (13)	0 (2)	0,3 (3)		1/8 (6)	0,9 (10)	6	76 (5)	0,7 (3)
16.	Conqueror	102 (4)	70,1 (3)	9,9 (3)	73,7 (3)	11 (11)	13 (13)	0 (2)	10 (3)		2/8 (6)	0,4 (10)	7	72 (5)	0,5 (3)
17.	SJ 08-45	102 (4)	69,4 (3)	10,9 (3)	74,3 (3)	5 (11)	10 (13)	0 (2)							

SortsValg

SortsValg 30. august 2010 Pl@nteInfo

Bemærk
SortsValg beregner det økonomiske resultat for de enkelte sorter v.h.a. modeller, der ikke kan tage hensyn til alle forhold. Derfor sker anvendelse af informationer fra systemet på **eget ansvar**.

Med knappen **'Forudsætninger'** kan du ændre forudsætningerne for beregningen (f.eks. udbytteniveau og priser), så de passer for din bedrift.

Vælg afgrøde: Vinterhvede

SortInfo | Forudsætninger | Vælg sorter | Vælg info | Hjælp

Beregnede resultater for vinterhvede (Sorter i Landsforsøg, 2007 – 2009)

	Økonomi 9)				Sygdomsbehandling 9)	Kvalitetsregulering 9)			Målte dyrkningsegenskaber (Fra udbytteforsøg) 1)	
Sortering	Udbytte, korr. for udgifter til udsæd, ekstra N, og svampemidler (kr/ha)	Udbytte (kr/ha)	Omk. svampe-midler inkl. udbringning (kr/ha)	Omk. svampe-midler (kr/ha)	Forv. antal behand-linger	Korrektion f. råprotein (kr/hkg)	Korrektion f. hektoliter-vægt (kr/hkg)	Kornpris korrigeret for råprotein og hektolitervægt (kr/hkg)	Råprotein i ts. (%)	Hekto-litervægt (kg/hl)
1. Hereford	5.904	6.662	376	252	1,9	0,00	-0,03	79,97	9,4	77,7
2. Timaru	5.747	6.448	319	202	1,8	-4,50	0,00	80,50	9,8	78,5
3. Oakley	5.694	6.600	524	335	2,9	0,00	-0,38	79,62	9,2	76,7
4. Torkil	5.694	6.504	428	279	2,3	-3,60	0,00	81,40	10,0	78,1
5. Tabasco	5.651	6.435	402	252	2,3	-4,50	-0,36	80,14	9,8	77,2
6. Conqueror	5.634	6.496	480	311	2,6	0,00	-0,49	79,51	9,3	76,4
7. Mariboss	5.631	6.441	428	279	2,3	0,00	-0,77	79,23	9,4	75,5
8. Blanding,vi-hved	5.630	6.440	428	279	2,3	-4,50	0,00	80,50	9,8	77,8
9. Frument	5.607	6.437	448	292	2,4	0,00	-0,63	79,37	9,6	76,0
10. Contact	5.604	6.424	438	288	2,3	0,00	0,00	80,00	9,5	78,4
11. Smuggler	5.571	6.303	350	233	1,8	-4,05	-0,96	79,99	9,9	76,2
12. Alfaromero	5.535	6.315	398	249	2,3	-4,50	-0,96	79,54	9,8	76,2
13. Ambition	5.528	6.359	449	280	2,6	0,00	-0,21	79,79	9,7	77,2
14. Inspiration	5.525	6.355	448	292	2,4	-4,05	0,00	80,95	9,9	78,4
15. Smaragd	5.519	6.314	413	270	2,2	-4,05	0,00	80,95	9,9	79,7

Soil Compaction