

# **The Importance of Plant Variety Protection for Farmers**

**IP Key SEA Act 13: Webinar on Plant Variety Protection and UPOV 1991**

# Introduction

Derk Gesink 47 years old

Married, 3 children

Education: Wageningen University 1993-1998



## Introduction

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Seedpotatoes 90ha

HZPC Spunta, Innovator, Colomba

PotatoBreeding 0,5ha

HZPC

Winterwheat 60ha

Onions 15ha

Sugarbeets 15ha



**HZPC**  
keeps you growing

# Introduction

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## Seed potatoes



## Introduction

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### Potato Breeding 0,5 ha



## Introduction



## **If I grew the varieties my grandfather grew...**

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Wheat yield would be 60% lower

Sugarbeet yield would be 150% lower.

Seed potato production would be impossible due to soil diseases

## Why is PVP important for me as a farmer?

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Who will produce new wheat or potato varieties without pvp?

I need new varieties because:

- Diseases adapt overtime
- Improvement of yield and stability
- Adaptation for new circumstances

EU: Farm to Fork 

- 25% Ecological Production 2030
- Less and less chemical crop protection



## Examples

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Wheat



Potatoes



## Wheat

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Winterwheat 60ha

- Crop rotation
- Weedmanagement



## Wheat

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Farmer selects variety from dutch varietylist

- Independant, non governamental.
- Funded by Plantum and farmers association.

Farmers selection criteria:

- Yield
- Disease resistance ( more and more inportant)
- Straw strengt and straw

# Wheat : Dutch Variety list



**Tabel 1. Overzicht van de raseigenschappen bij wintertarwe\***  
gemiddelde resultaten over de jaren 2018 t/m 2021

Rubricering <sup>1)</sup>					Resistentie tegen							Bakkwaliteit <sup>2)</sup>					
	Lengte stro (rel)	Stevigheid	Vroegheid aar	Vroegrijpheid	Schot	Gele roest	Bruine roest	Meeldauw	Bladvlekkenziekte	Fusarium in de aar	Hectolitergewicht (rel)	Broodkwaliteit	Deegkwaliteit	Zelenywaarde	Korrelhardheid	Valgetal	Klassificatie
<b>Baktarwe</b>																	
A Informer	111	8,5	5,5	5,5	6,5	9,0	7,0	8,5	8,0	7,0	100	7,0	7,5	7,5	7,0	8,5	B
A KWS Extase	97	8,0	8,0	7,0	7,0	9,0	7,0	8,0	8,5	6,5	102	7,0	8,5	7,0	7,0	8,5	B
A WPB Calgary	99	7,5	7,5	6,5	6,5	9,0	7,0	8,5	7,5	6,5	101	7,0	6,5	7,0	7,0	8,5	B
A WPB Durand	105	6,0	7,0	6,5	7,0	6,0	7,5	8,5	7,5	7,0	101	7,0	8,5	7,0	6,5	7,5	B
N LG Lunaris	100	8,0	7,0	6,5	6,0	8,5	8,0	7,5	7,5	6,5	100	7,0	7,0	7,0	7,0	6,5	B
B KWS Talent	112	7,5	7,5	7,0	7,0	5,5	7,5	7,5	6,5	7,0	103	7,0	6,5	7,0	7,5	8,5	B
B RGT Reform	96	8,0	6,5	7,0	7,0	6,5	7,0	7,5	6,5	7,0	104	8,0	9,5	8,0	7,0	9,0	B
<b>Vultarwe</b>																	
A LG Cambria	105	8,0	6,0	6,0	7,0	9,0	7,5	8,0	7,5	6,5	100	6,5	6,0	7,0	7,5	8,0	Vu
A LG Vertikal	99	8,5	6,0	6,5	7,0	7,5	7,5	6,0	6,5	6,5	100	6,5	5,5	6,0	6,5	6,5	Vu
N Revolver	104	6,5	6,0	6,0	7,0	8,5	9,0	8,0	8,5	7,0	101	6,5	9,0	8,0	6,5	8,5	Vu
B Stereo	95	8,0	7,0	7,0	7,0	6,0	8,5	7,0	7,5	6,5	102	6,5	6,0	7,0	7,0	6,5	Vu
<b>Overige tarwe</b>																	
A Gleam	91	8,5	6,5	7,0	6,5	7,5	6,5	7,5	7,0	6,0	99						
A Toby	93	8,5	5,5	5,0	6,5	9,0	7,5	6,5	8,5	6,0	94						
N Allison	109	7,0	5,5	5,0	7,5	9,0	7,5	8,5	8,5	7,0	99						
N Positiv	95	8,5	7,5	7,0	7,0	9,0	7,5	6,5	8,0	6,5	100						

## Wheat and Farm Saved Seed(FSS)

www.eigenzaaizaad.nl



2. Teelt u dit jaar granen? ☒ Ja  
☐ Nee → ga door naar vraag 5
3. Maakt u hiervoor gebruik van zaaizaad, dat verkregen is uit eigen graanoogst (FSS)?  
☒ Ja → ga door naar vraag 4  
☐ Nee → ga door naar vraag 5
4. Hoeveel zaaizaad, verkregen uit eigen graanoogst (FSS), heeft u tijdens de najaarsuitzaai 2018 én/of voorjaarsuitzaai 2019 gebruikt?

Ras	Totaal kg eigen zaaizaad (FSS)	Oppervlakte ingezaaid met FSS
Henrik	3.600 kg	20 ha
Expert	1.800 kg	10 ha
	kg	ha



Mts. Gesink  
T.a.v. de heer D. Gesink  
Schouwerzijsterweg 1  
9961 TA MENSINGEWEER

bedrijf Vossenburchkade 68  
adres 2805 PC Gouda  
telefoon 0182 68 86 68  
fax 0182 68 86 67  
e-mail info@plantum.nl  
webSite www.plantum.nl  
C.v. K. Rotterdam 24319599  
BTW-nr. NL809984738801  
IBAN-nr. NL10ABNA0619565861

Gouda, 31 oktober 2019

FACTUURNUMMER 190139  
DEBITEURNUMMER 190339

Hierbij brengen wij u het volgende in rekening wegens gebruik van eigen zaaizaad granen in najaar 2018 en/of voorjaar 2019. Het betreft de volgende rassen:

Graanrassen	aantal kg	tarief per 100 kg	bedrag in €
Henrik	3.600	5,20	187,20
Expert	1.800	5,20	93,60

sub-totaal 280,80  
BTW 9% 25,27  
Totaal door u te voldoen 306,07

Betalingstermijn 30 dagen

Gaarne overmaken op IBAN nummer NL10ABNA0619565861 t.n.v. Plantum NL inzake FSS

## FSS

Buy new seed: €0,65ct/kg

Cost per ha €130



FSS : €0,20/kg (yield)+€0,15/kg (cleaning) +€0,052/kg (FSS)

Cost per ha €80



FSS cost are about €10/ha. Average winterwheat Yield is €1600/ha

## Potatoes

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- Potato Y virus Yntn (PVY)
  - Necrosis in tuber
  - Most old varieties are susceptible
- Single gene resistance
- Can not be treated with chemicals



Photo by Dr. Steve Johnson, University of Maine Cooperative Extension.

## Potatoes

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### Breeding for HZPC

50% share in revenues, 50% goes to HZPC

HZPC provides Germplasm, markers, marketing etc.

Revenues (Royalties) for me are net 1,40 euro/100kg.

50ha Seedpotatoes, average yield 30 ton/ha = 21.000 euro/year

250ha Seedpotatoes = 105.000 euro/year



Change of finding a variety is once every 20 year





## Potatoes

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### Breeding your own variety

- Best adapted for your local environment
  - Make new combination of local varieties with best foreign varieties
  - Make a new businessmodel for your own farm!
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- Thanks to PVP it's profitable!