



Federal Office of Plant Varieties
BUNDESSORTENAMT
Hannover
Germany

**VCU Trials for National Listing –
Essential Basis for a well founded Variety
Description and Variety Recommendation**

Die Wertprüfung – Unverzichtbare Grundlage für eine
fundierte Sortenbeschreibung und –beratung

Uta Schnock

Agricultural Field Trials – Today and Tomorrow
Landwirtschaftliches Versuchswesen – heute und morgen

8 – 10 October 2007 University of Hohenheim

Official testing system Germany

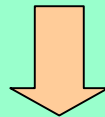
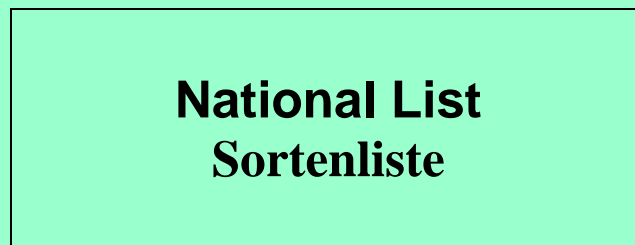
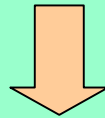
Prüfungssystem Deutschland

**Federal Office of Plant
Varieties**

**Value – Test (VCU)
2 – 3 years**

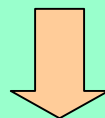
Bundessortenamt

**Wertprüfung
2 – 3 Jahre**



**Federal States
Variety Trials (LSV)
2 – 3 years**

**Bundesländer
Landessortenversuche
2 – 3 Jahre**



Recommendation

Empfehlung

Value-Test for National Listing

Wertprüfung für Sortenzulassung

Duration of Test

2 - 3 years

Dauer

2 - 3 Jahre

Trial Series

14 (12 – 25) locations

Prüfserie

14 (12 – 25) Prüforte

Trial Design

- without fungicides, growth regulator
- twofactorial

Prüfdesign

- ohne Fungizide, Wachstumsregler
- zweifaktoriell

Additional Tests

Ergänzende Untersuchungen

Official testing system Germany

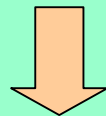
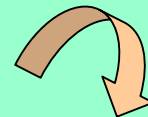
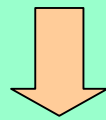
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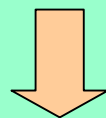
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**Wertprüfung
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**Federal States
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Recommendation

Empfehlung

Value for Cultivation and Use (VCU)

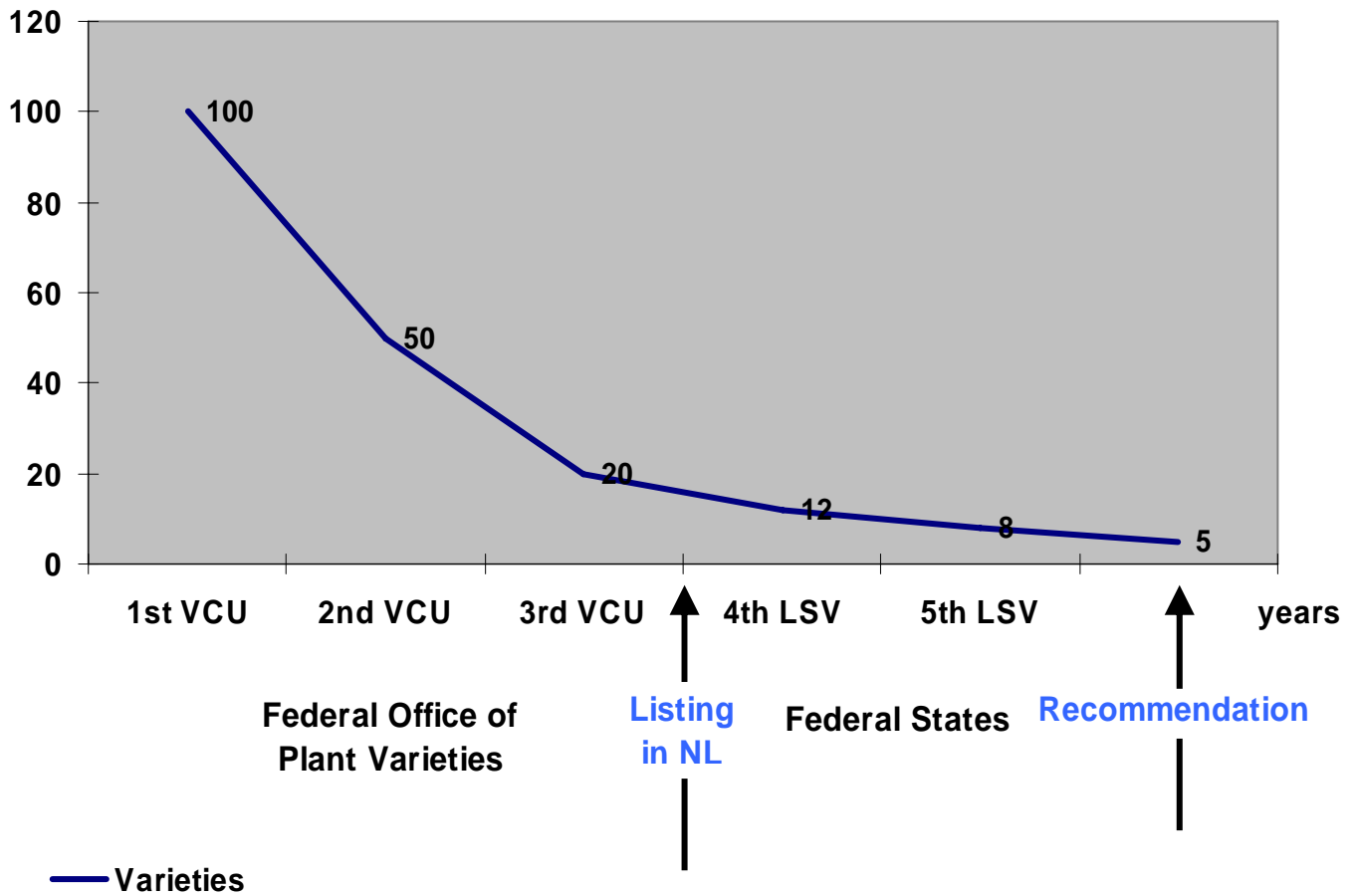
A variety is considered to be of value for cultivation and use if it is in the combination of its valuable characteristics clearly better than all comparable varieties already listed on the National List.

Landeskultureller Wert

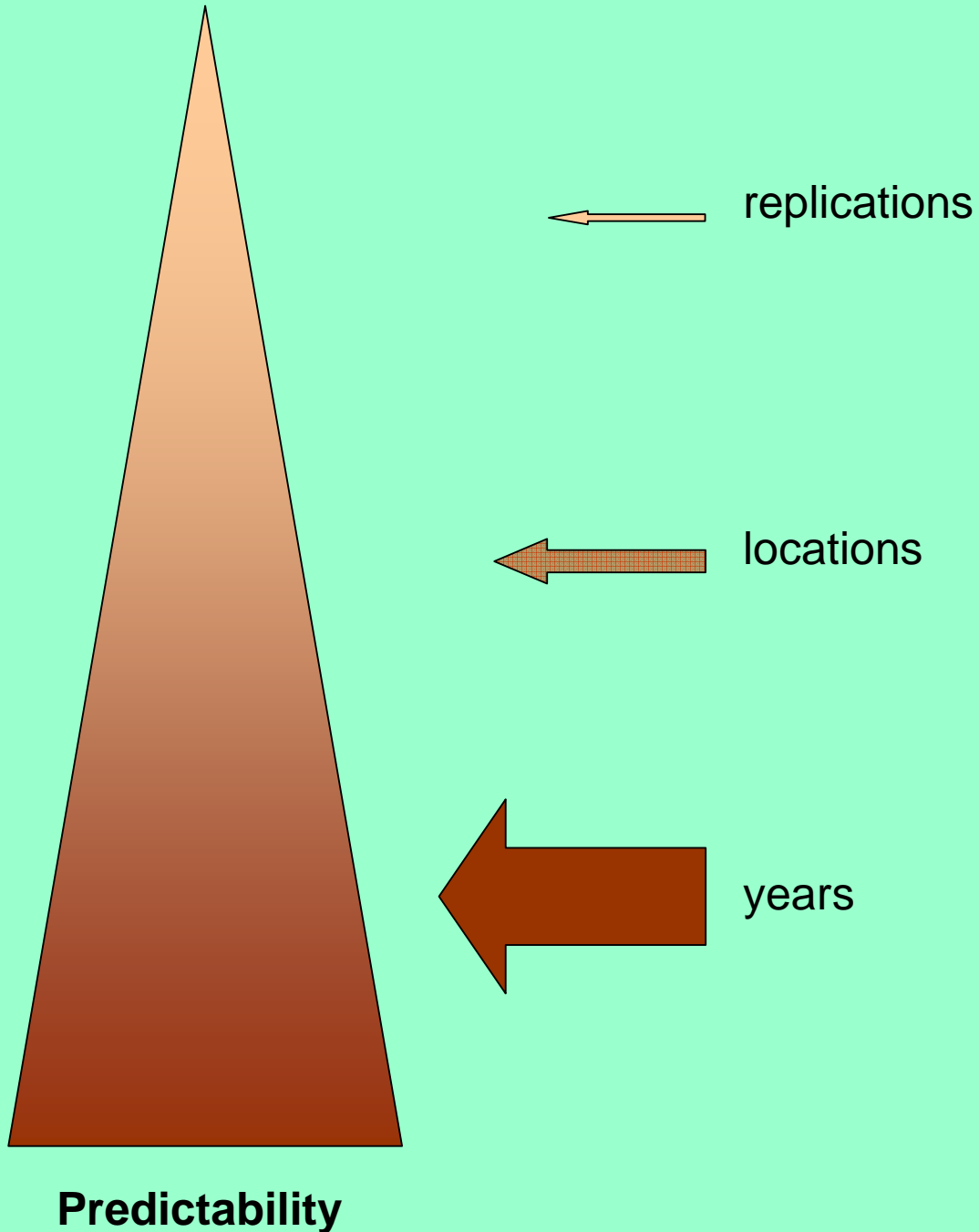
Eine Sorte hat einen landeskulturellen Wert, wenn sie in der Gesamtheit ihrer wertbestimmenden Eigenschaften eine deutliche Verbesserung gegenüber zugelassenen vergleichbaren Sorten erwarten lässt.

From Application to Recommendation (Winter Wheat)

Varieties

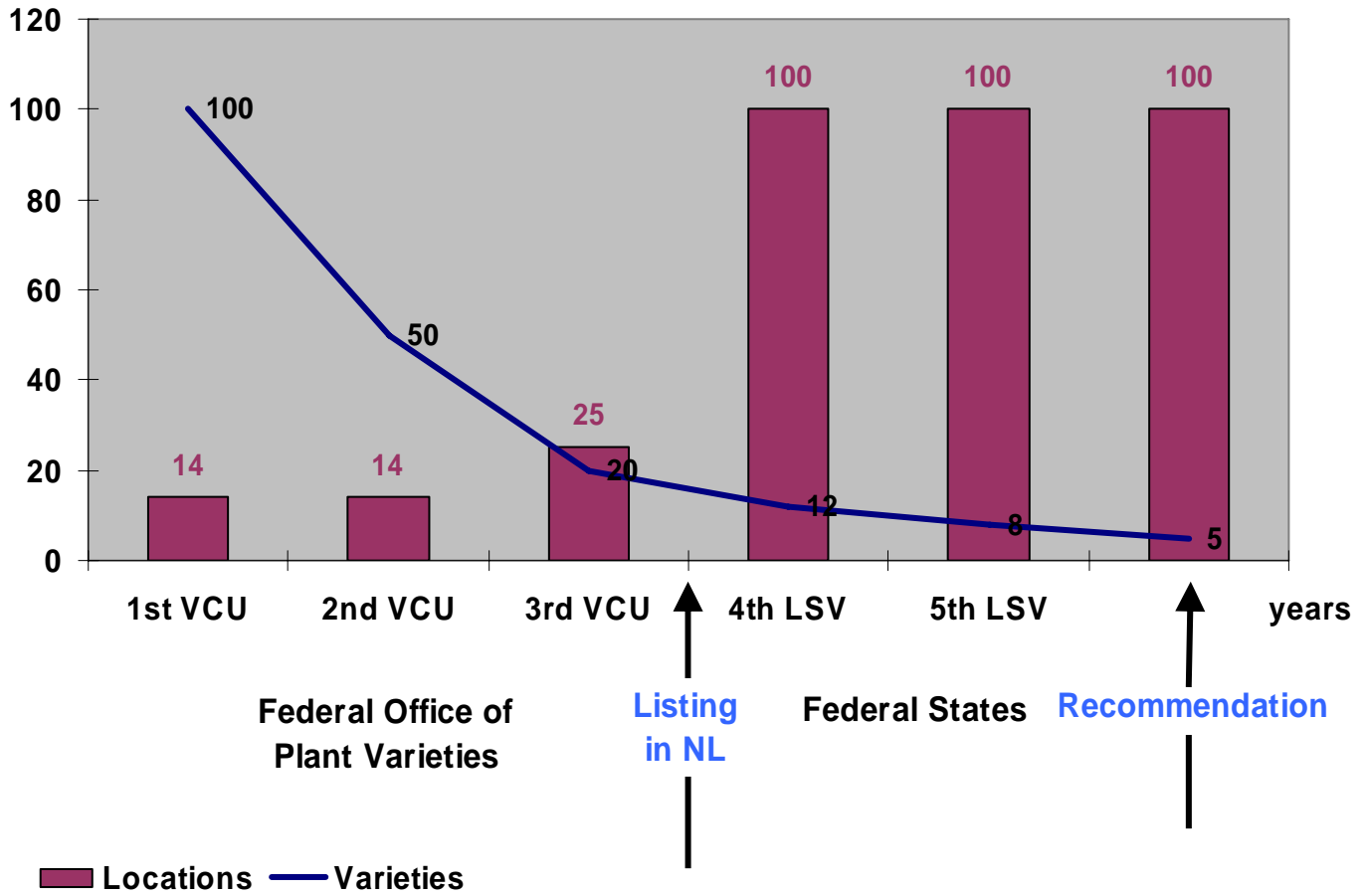


Predictability of Performance (Yield) contra Variety x Environment - Variation



From Application to Recommendation (Winter Wheat)

Varieties
Locations



Requirements for Mutual Utilization of Trial Results

- same technical guidelines
- same intensity levels/
maturity groups etc.
- same data structure/software (PIAF)

Voraussetzungen für die gemeinsame Nutzung von Prüfungsergebnissen

- gleiche Richtlinien
- gleiche Intensitätsstufen/Reifegruppen u. a.
- gleiche Datenstruktur/Software (PIAF)

Species with suboptimal Data Base

Species	VCU years	VCU loc./y	LSV (2006) loc./y	Variety x Environment Variation (% CV)
Spring Wheat	3	14	18	4,2
Spring Rape	2	14	2	6,1
Sun Flower	2	14	10	7,7
Blue Lupin	2	14	10	11,7
Potato	2	12	10	8,5
▪				
▪				
▪				
Winter Wheat	3	14 – 25	~100	4,2

Conclusion

Not only results from Federal States Variety Trials but also results from VCU Trials shall be used as basis for the selection and later recommendation of varieties.

In some species the number of trials is too small to allow a regional judgement.

Zusammenfassung

Für die Auswahl von Sorten und für die Sortenberatung stellen Wertprüfungsergebnisse eine wertvolle Grundlage dar.

Bei einigen Pflanzenarten ist die Datengrundlage für regionale Empfehlungen zu gering.