



Dissemination Workshop

Potato Varieties Testing for Production in Cambodia

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Introduction

- Cooled crop species
- Most nutrition and malnutrition
- Recently popular in Cambodian dish
- Multiple industrial advantage crops
 - Flour
 - Starch
 - Chip



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- Never grown in Cambodia
 - 100% of local market sellout are imported.



Objective

- Potato Research Center, September 21, 2017.
- Determine suitable region and varieties for production under Cambodia Climate.
- Bring realistic production in Cambodia and reduce importation.

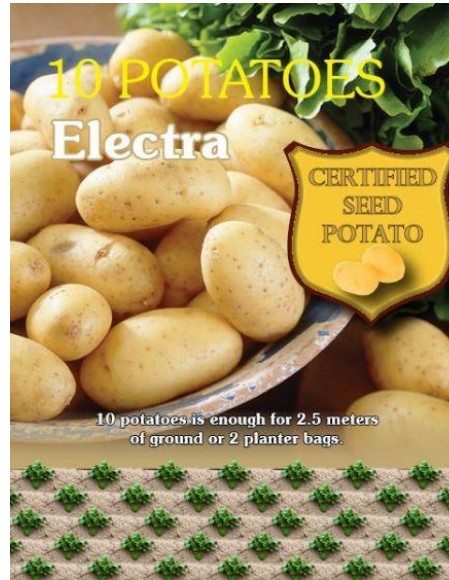
Methods



- 6 location were selected
 - Phnom Penh
 - Kompong Chnang
 - Battambang
 - Tboung Khmum
 - Pursat
 - And Mondulkiri

- 12 Varieties have been test.

- Banba
- Electra
- Fandango
- Tornado



- Concordia
- Coronada
- Georgina
- Jelly
- Julinka
- Madeira
- Red Fantasy
- Sorentina

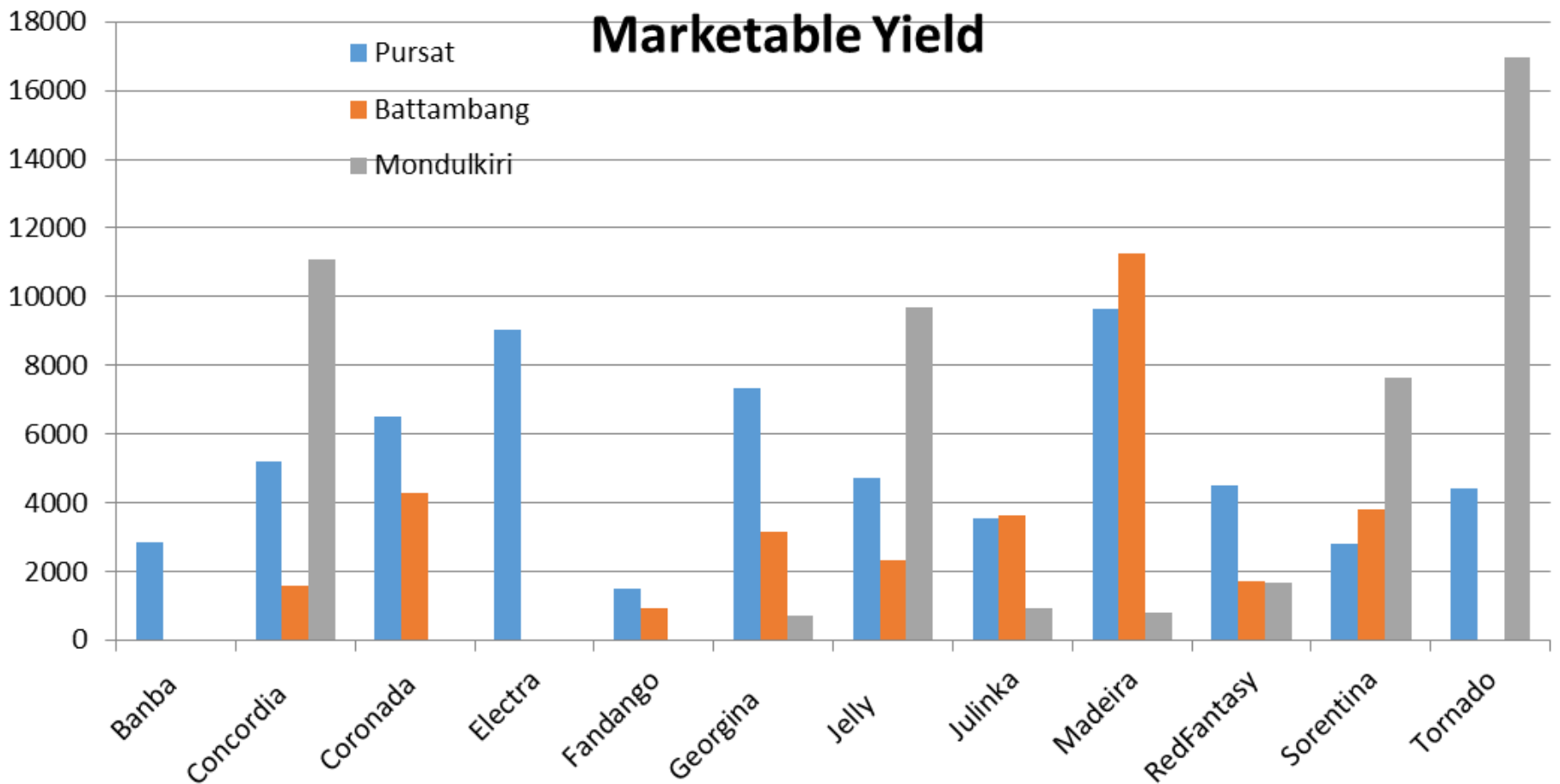
Management

- Watering everyday and once a day
- 3 times weeding
 - 21 DAS
 - 35 DAS
 - 55 DAS
- Fertilizer rate
 - 150 Kg N, 80 Kg P, and 250 Kg K
 - N & K (2 time application Basal and 30 DAS)



Result

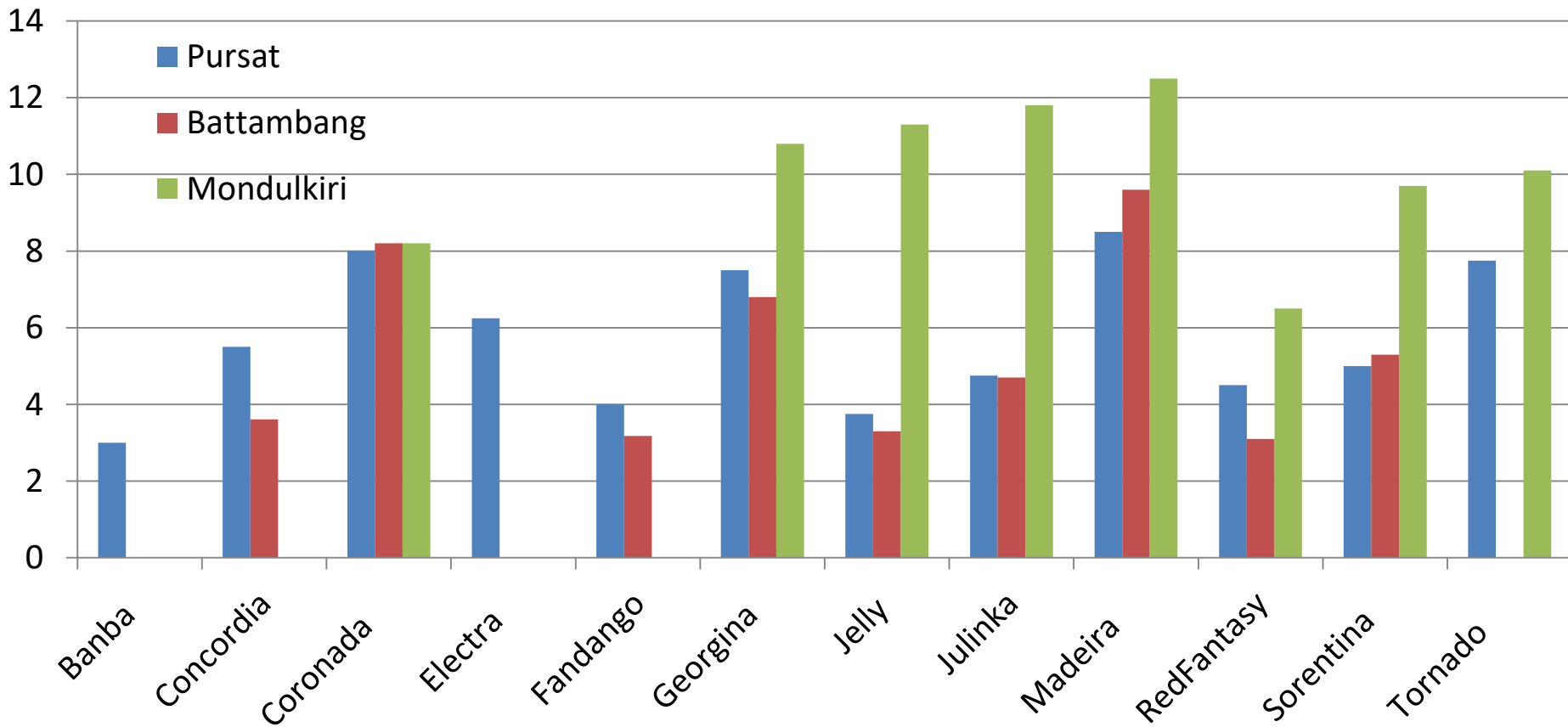
- Yield (Kg/ha) (2018)



Yield 2017

Variety Name	Treatment Code	Starch Content (%)	Total Yield (ton ha ⁻¹)
PO7	T1	< 7.4	7.297 C
PO3	T2	9.3-9.5	13.797 B
Electra	T3	< 7.4	14.222 B
Banba	T4	< 7.4	20.189 A
Tonado	T5	< 7.4	17.251 A
Concordia	T6	< 7.4	13.570 B
Red Sonia	T7	7.4-7.6	11.711 B
Fandango	T8	< 7.4	17.672 A
Marabel	T9	< 7.4	11.274 B
Madeira	T10	9.3-9.5	12.878 B

No. Marketable tube per plant



Lesson Learnt

- Heat stress of late season planting limiting production, tuber development and yield reduction.
- Water accessibility in some region also limit the growth and yield of potato



- Vinelike stem, yellowing and dried stem was observed during high temperature in Kompong Chnang.

- Termite, ant and other arthropods cause major damage on potato production in Cambodia.



- Many diseases cause serious damage.
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Challenges

- Insect
- Water limitation
- Soil borne disease
- Heat stress
- Seed quality (Good seed)

New Planning

- Cultivation season in lowland region
- Insect management
- Diseases control
- Quality seed production
- Storage facility
- Water management

Have A Nice Day!!!

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