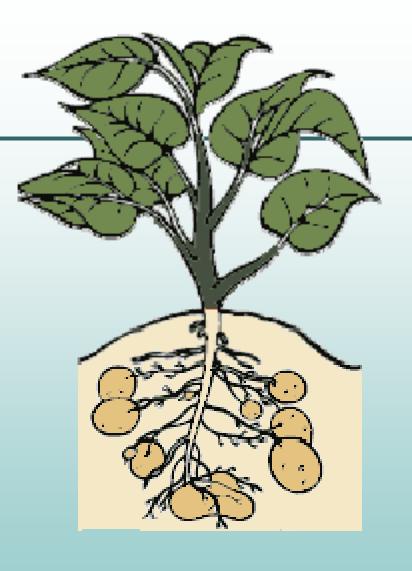


Gregory Wolff
Director, Horticulture Division
Canadian Food Inspection Agency

Outline

- Data Collection
- Survey Areas
- Potato Production
- Varieties & Uses
- Agronomic Practices
- Constraints
- Quality Control
- Seed Potato Certification
- Utilization of UNECE Standard
- Future Trends



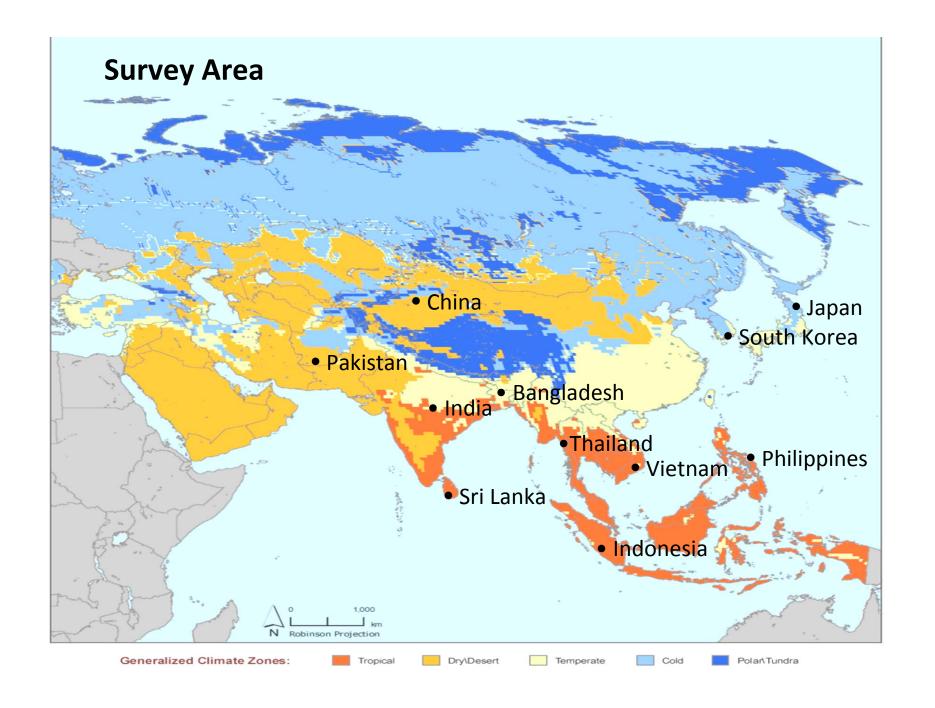
Data Collection

 Data prepared by Ministry of Agriculture representatives in each country

- Questionnaires addressed:
 - Potato production
 - Agronomics considerations and constraints
 - Varieties grown & their usage
 - Elements of certification systems
 - Utilization of the UNECE standard

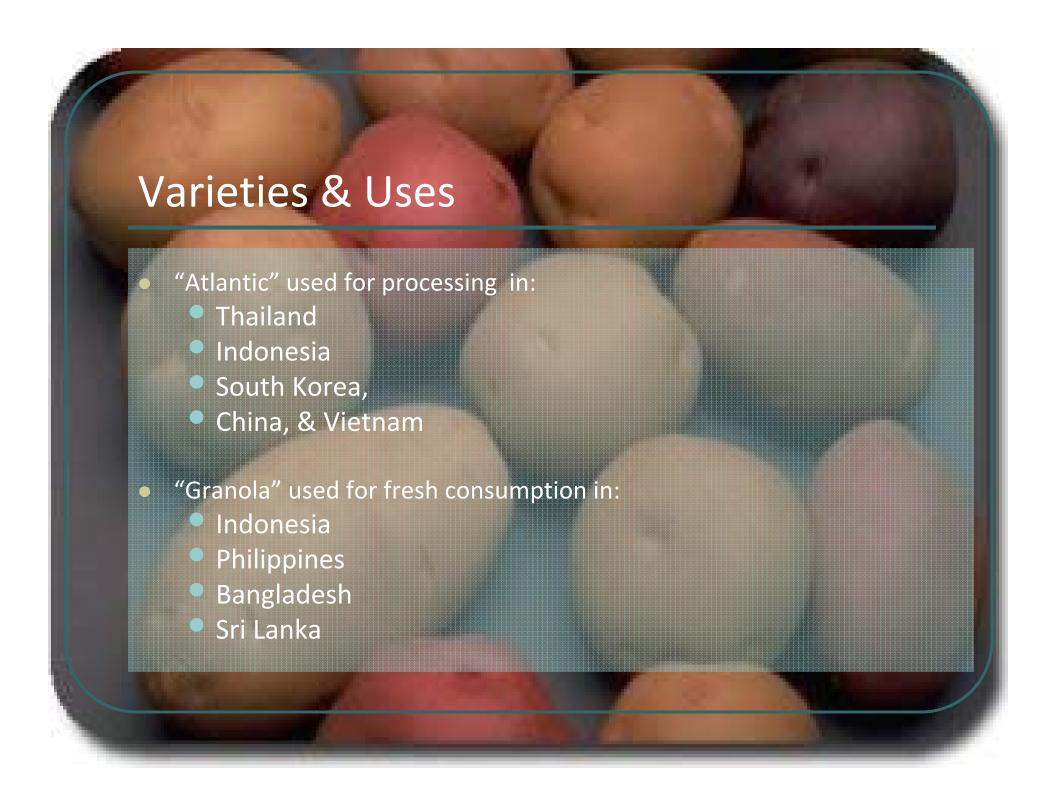


Data generally for 2008-09 seasons



Production Seasons & Regions

- Potato production occurs in all climate zones in the region
 - Temperate, polar, cold, desert & tropical
- Number of production seasons varies:
 - One season in Bangladesh
 - Year-round in Thailand, Indonesia, Vietnam, Sri Lanka & India
- Number of distinct production regions varies:
 - 2 in Thailand
 - 8 in Indonesia



Varieties & Uses

- Japan uses > 70 varieties
- Unique local varieties in many countries
 - For example: India
- Most countries using potatoes for processing as chips or French fries:
 - Not Sri Lanka & Bangladesh

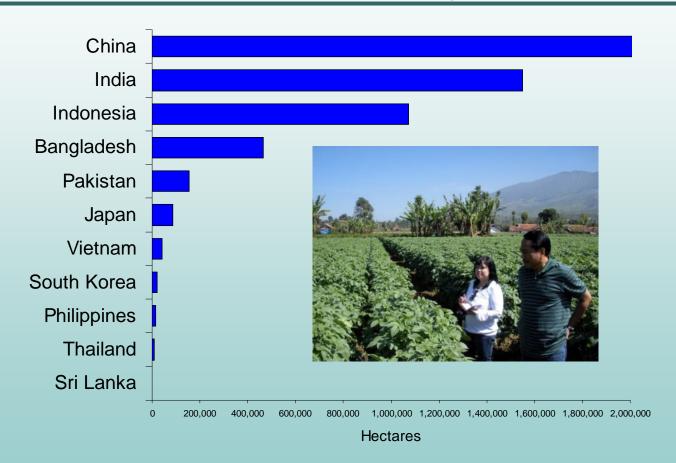


Production Totals: Asian Region

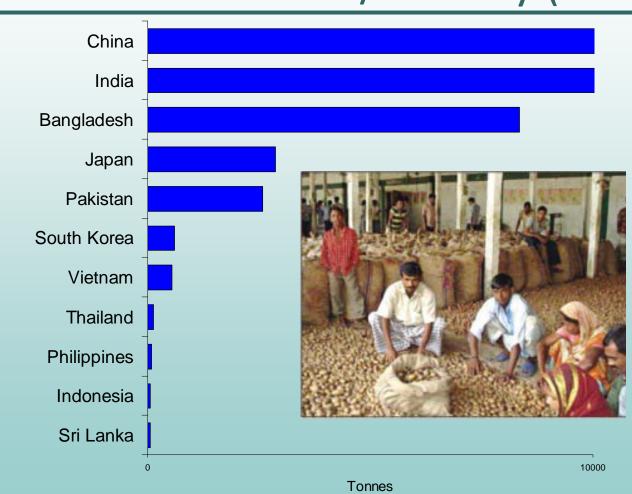
- Harvest Area : 8,716,561 Ha(48% world)
- Volume : 125,865,055 Tonnes (40% World)
- Average Yield: 17.8 Tonnes/Ha
- Average Consumption: 22.62 kg/Capita/Year (69% world)

Source: UNECE potato surveys & FAOSTAT

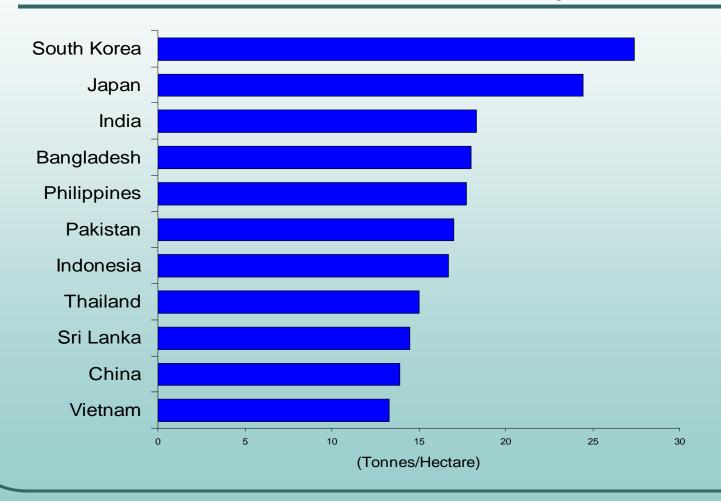
Production Area/Country (Ha)



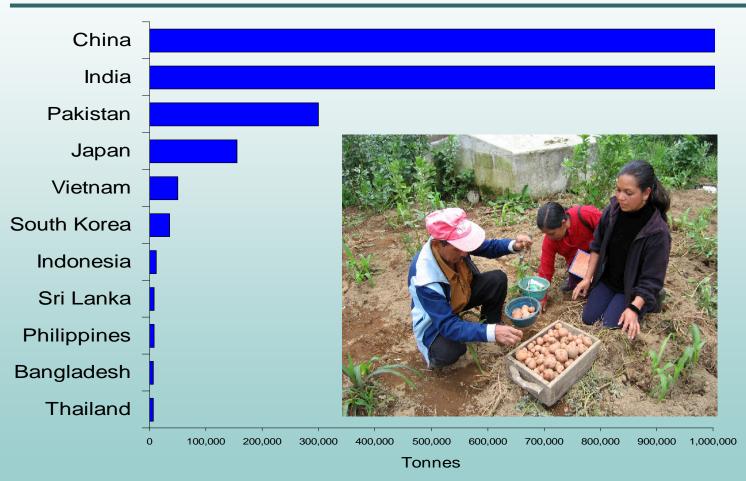
Production Volume/Country (tonnes)



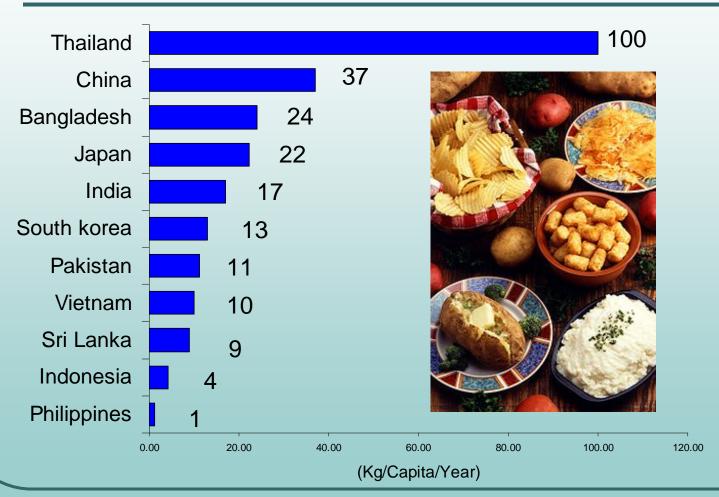
Production Yield Per Country (tonnes/Ha)



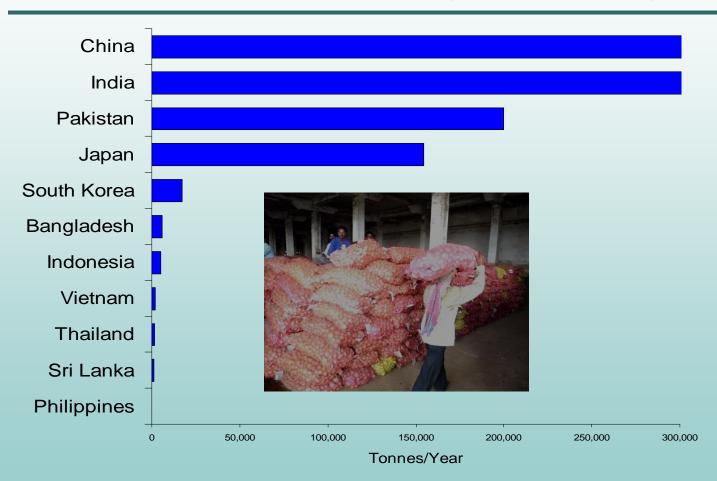
Planting of Potatoes by Country (tonnes)



Consumption/Country (Kg/Capita/Year)



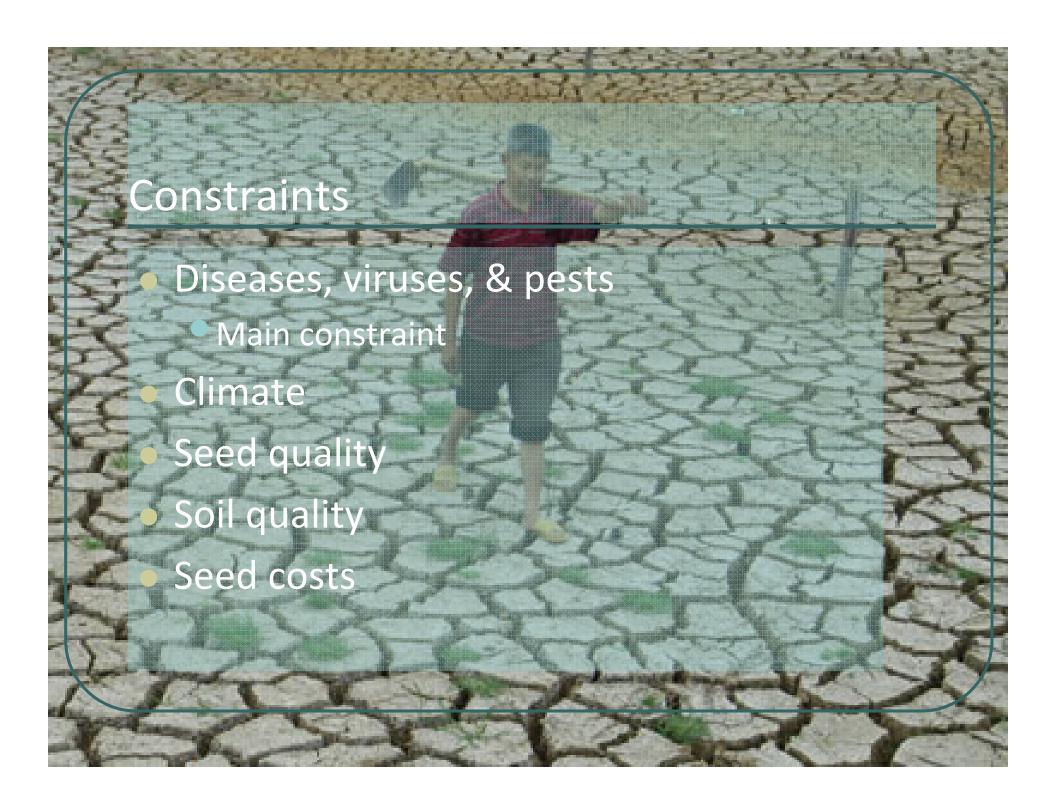
Certified Seed/Country (tonnes/year)



Production and consumption highlights

- China & India have the highest production volume and area
- Bangladesh has a significant production volume
- Thailand is the greatest consumer of potatoes
- Vietnam has the highest yield despite lower production volume and area
- China & India have the highest planting quantities
- China & India have the highest seed production





Constraints: Diseases, Viruses & Pests









Quality Control

Imported Seed - all Countries

except for:

- Japan
- South Korea
- China
- India
- Cold Storage
- Certified Seed



Seed Potato Certification

- Limited certified seed in some countries
- All countries have a certified seed production system
- Some countries have a complete system
- Main elements vary from country to country

Seed Potato Certification

- Elements include:
 - Field & tuber inspection
 - Disease Tolerance
 - Purity of Seed
 - Variety registration
 - Seed labelling & tagging



Seed Potato Certification

- Elements included:
 - Seed classification
 - Tissue culture
 - Screen house production
 - Lab analysis (Soil, Seed, Disease & viral testing)
 - Freedom from pests
 - Seeds Act



UNECE Standard

- Not all countries were familiar with the standard
- Most countries intend to use UNECE Standard to:
 - Facilitate trade
 - Increase production
 - Improve current systems
 - Improve seed quality



Future Trends



Future Trends: Demand & Growth

- Future global demand & growth will be driven by increased consumption in Asia
 - (esp., China & India)
- Traditional rice-based diet is evolving to include more potatoes
- FAO reports production in Asia has increased on average 4.6% annually over the past 10 years

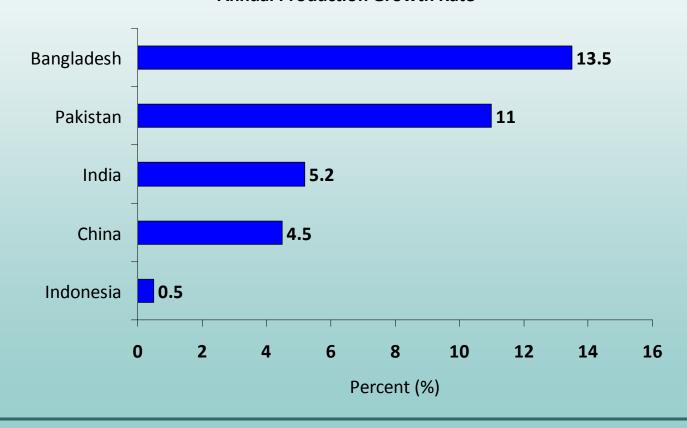
Future Trends: Demand & Growth

- Growth of the potato industry in Asia is due to:
 - Increase use of cold storage facilities
 - More processing plants
 - Irrigation
 - Growth of fast food industry



Future Trends: Production





* Source: FAOSTAT

Future Trends: Climatic Changes

- Impacts will be greatest in southern countries by amplifying existing problems:
 - Drought,
 - Land degradation
- Increase disease & pest pressure
 - Late blight expected to expand
 - Larger populations of aphids & more seasons
 - As virus vectors, aphid threaten seed production



Asian Region future - highlights

- Demand expected to grow
- Desire in most countries to increase production to meet demand
- Moving to an UNECE standard will promote
 - Increased yield and quality
 - National food security
 - Open new trade markets through internationally recognized standard

