



## ASIA AND PACIFIC COMMISSION ON AGRICULTURAL STATISTICS

<b>TWENTY-SEVENTH SESSION</b>
<b>Nadi, Fiji, 19 – 23 March 2018</b>
<b>Agenda Item 7.3b</b>
<b>Presentation on Cost of production on vegetables</b>

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# **APCAS 27**

## **Presentation on Cost of production on vegetables**

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# Presentation Outline

- ❑ **Objectives;**
- ❑ **Methodology**
- ❑ **Per unit cost of production**
- ❑ **Benefit cost ratio**
- ❑ **Area and Yield rate;**
- ❑ **Issues and challenges;**

# The Cauliflower Survey 2014

## Objectives:

- To estimate per acre production cost
- To estimate per acre yield rate
- The area under Cauliflower cultivation
- Per acre production value

# The Cauliflower Survey 2014

## Methodology:

- ❑ Using the frame of Agriculture census -2008, household having at least one decimal area of land under cauliflower cultivation has been considered
- ❑ Two strata:
  - 1) Khulna, Rajshahi and Rangpur division- 70 PSU selected
  - 2) The remaining divisions-100 PSU selected

Total 170 PSUs were systematically selected and from each PSU 30 households were selected systematic random sampling. If the household cultivating cauliflower was less than 25 then those were selected from adjacent Mauza( the lowest administrative unit)

# The Cauliflower Survey 2014

Production ingredient	Cost (Tk)	%	\$
Land preparation	4843	7.49	
Seed/seedling & plantation	16849	26.05	
Weeding	7818	12.09	
Irrigation	3844	5.95	
Pesticides/ insecticides	4351	6.73	
Fertilizer	13613	21.05	
Hormone	952	1.47	
Harvesting	5546	8.58	
Transport	5360	8.28	
Others	1475	2.31	
Total	64650	100.00	

# The Pumpkin Survey 2014

## Objectives:

- To estimate per acre production cost
- To estimate per acre yield rate
- The area under Pumpkin cultivation
- Per acre production value

# The Pumpkin Survey 2014

## Methodology:

- ❑ Using the frame of Agriculture census -2008, household having at least one decimal area of land under cauliflower cultivation has been considered
- ❑ 30 PSUs were selected from each division using the systematic random sampling

Total 210 PSUs were systematically selected in the whole country and from each PSU 30 households were selected using systematic random sampling. If the household cultivating pumpkin was less than 25 then those were selected from adjacent Mauza( the lowest administrative unit)



# The Pumpkin Survey 2014

Production ingredient	Cost (Tk)	%	\$
Land preparation	3273	13.27	
Seed/seedling & plantation	4217	17.10	
Weeding	2094	8.49	
Irrigation	2371	9.61	
Pesticides/ insecticides	2078	8.43	
Fertilizer	5308	21.52	
Hormone	501	2.03	
Harvesting	3058	12.40	
Transport	1431	5.80	
Others	332	1.35	
Total	24663	100.00	

# The Cauliflower and Pumpkin Survey 2014

- Benefit cost ratio (per acre)

Serial	Name	Ratio
1.	Cauliflower	2.06
2.	Pumpkin	2.35

# The Cauliflower and Pumpkin Survey 2014

- Area and Yield rate(per acre)

Name	Area	Yield rate(kg)	Per acre Production value(Tk)
Cauliflower	21472	13068	133799
Pumpkin	120993	5470	57968

# The Cauliflower and Pumpkin Survey 2014

## Issues and Challenges:

- Farmers are using indigenous methods with the poor yield rate due to unavailability of high yielding variety.
- Cauliflower is sensitive to extreme temperature. From 15 to 25 degree celsius is ok for its cultivation.
- The interview method is taken for data collection. So, sometimes, the memory recalling problem can happen.

Thank you All

