

Ministry of Agriculture, Livestock and Irrigation  
Department of Agriculture, Kayah State



Findings on  
Upland Paddy Varietal Trial in  
Kayah State

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2019 January

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# Introduction.....

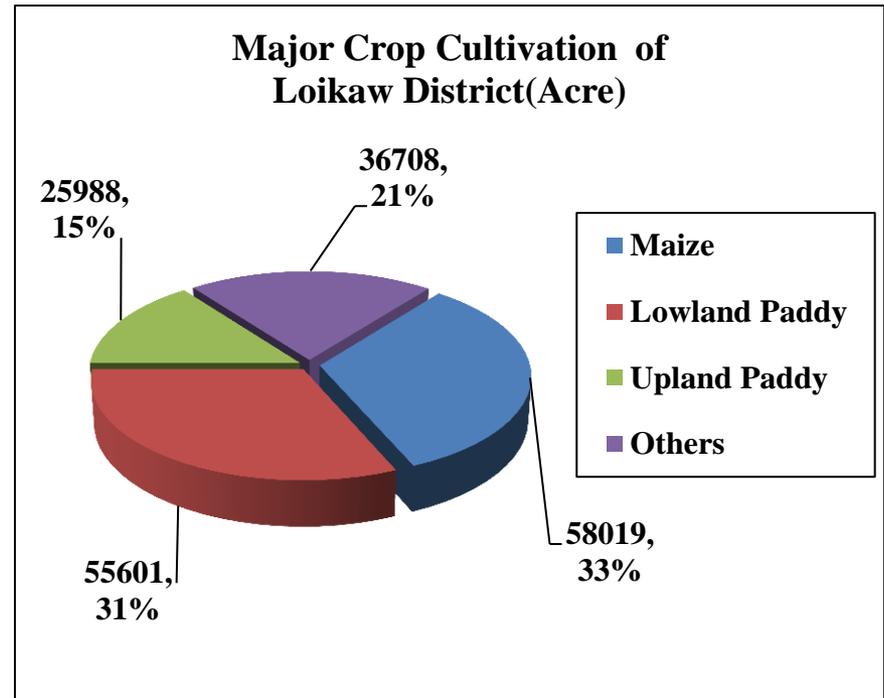
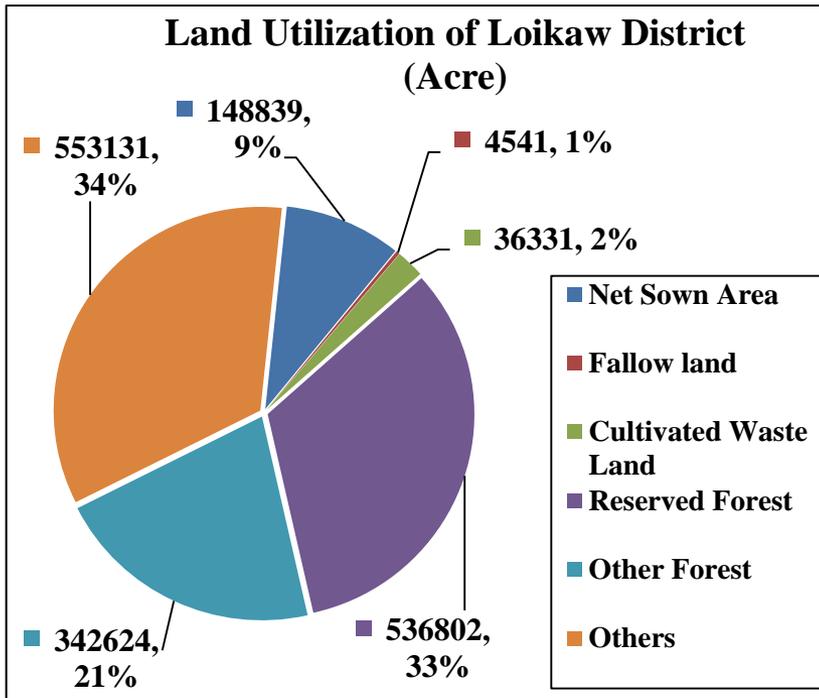
- Upland rice is a major staple food crop in hilly and remote area of Kayah State especially in some Townships of Loikaw District and cultivated acre has about 25900.
- Traditional local upland rice varieties “Bopyaco” and “Botsop” include pigment, aroma and good eating quality, but yield are very low.
- It needs to select potential upland varieties with reasonable yield, good eating quality and have good adaptability to local agro-ecological condition.

# Introduction.....

## Climate and Agro-ecological Condition

Total Rainfall - 40.72 inches

Temperature - (4 - 37.5 ) ° C



# Purpose

To select potential upland rice varieties with:

- reasonable yield
- good eating quality
- high resistance to pest
- good adaptability to local agro-ecological condition

# Activities

- Trial Name - Upland Rice Varietal Trial
- Test varieties - 5 Varieties (From DAR)
  - Yn3230-68-B-6
  - IR 83141-11-6
  - IR 82589-B-B-59-2
  - IR 82635-B-B-75-2
  - Kon Myint -2 (Control variety )
- Trial location - Loikaw district, Deemosotownship
- Farmer's Name - U Marr Ko
- Season - Rainy Season

# Activities



# Activities.....

- Trial design - (5 × 1) Simple Yield Trial
- Total Plot Size - (0.075) acre
- Spacing - (10 inches x Continuous)
- No. of Rows/ Small plot - 24
- Fertilizer rate
  - Urea 50 Kg / acre
  - T Super 25 Kg / acre
  - Potash 25 Kg / acre
- Date of Cultivation - 27.6.2017
- Date of Harvest - 23.10.2017 to 30.11.2017

# Activities



# Activities



# Results

## Plant Character Data

No	Particular	Varieties				
		Yn3230-68-B-6	IR 83141-11-6	IR 82589-B-B-59-2	IR 82635-B-B-75-2	Kon Myint-2 (Control)
1	Days 50% flowering	92	100	100	100	92
2	Date of 50% Flowering	30.9.2017	8.10.2017	8.10.2017	8.10.2017	30.9.2017
3	Plant Height (cm)	114.5	74	77	98.6	112
4	Rice Blast Resistance	Moderate	Moderate	Good	Good	Moderate
5	Growth Duration (days)	118	155	155	155	118

# Results



# Results.....

## Yield Components Data

No	Particulars	Variety				
		Yn3230-68- B-6	IR 83141-11- 6	IR 82589-B- B-59-2	IR 82635-B- B-75-2	Kon Myint -2 Control var.
1	No. of plants / 6.6 ft x 6.6 ft plot	2154	2461	1133	1185	1322
2	No.of grains / panicle	37	34	59	66	53
3	No.of filled grains / panicle	23	22	46	54	40
4	% of matured grain	62.34	66.95	78.82	82.00	76.73
5	(1000) Grains Weight (g)	23	24	23.5	23	23
6	Yield / plot (Pyi)	13.35	15.25	14.35	17.25	14.25
7	Yield / acre (Bsk)	54.57	62.33	58.66	70.51	58.25
Rank (By Yield)		5	2	3	1	4

# Results



# Summary of Findings

- IR 82635-B-B-75-2 was found highest yield and preferred by farmers.
- No pest incident in all varieties.
- All varieties found well adaptation in poor soil fertility condition with acceptable yield.

# Conclusion

- All entries from DAR could be candidates as potential varieties due to no pest incidents, good adaptation to drought condition.
- Although all entry varieties found better performance, it need to be tested in more cropping season to identify other assessment such as milling recovery, cooking and eating quality conclusively.

Thank You!

