



Ministry of Agriculture, Livestock and Irrigation

Department of Agriculture

Yangon Regional Office



Green Gram Variety Trail

Presented

By

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Background

- Since 1980-81, green gram was grown in Thonegwa township over 100 acres.
- Gradually, green gram growing areas is increasing and at present total area is about (130000) acres as second crop.
- Cropping Intensity – 186.81 %
- To get not only high yield but also good quality product, DOA is conducting varietal trail.
- EU is main market 2014-15 up to present, No.1 at international market

Objectives

It aims to choose -

✓ High yield and good quality varieties which are suitable for Yangon region

- | | | |
|-------------------|---|--------------------------|
| ➤ Name of Crop | - | Green Gram (Winter) |
| ➤ Type of Trail | - | Variety trail |
| ➤ Name of Farmer | - | U Myint Thaung |
| ➤ Size of Plot | - | 120 ft × 8 ft (0.022 ac) |
| ➤ Name of Village | - | Thike Too Kan |
| ➤ Location | - | Thonegwa, Yangon |

Varieties Trail

Tested Varieties

- ❖ YM14-M1Y11-6
 - ❖ YM14-M1Y11-7
 - ❖ YM14-M1Y11-8
 - ❖ YM14-Y514-16
 - ❖ Yezin -11
 - ❖ Yezin -14
 - ❖ Yezin -1(Shwe War)
 - ❖ SHWE TOE -009
-
- Spacing - 1 ft between rows
 - Sowing Date - 29-11-2017
 - Type of Soil - Sand Silt

Research Activities

- Location Selection
- Land Preparation
- Basal Fertilizer- 15 : 15 : 15 compound (1/2 bag per acre)
- Germination
- Seed Treatment
- Growing
- Cultural Management
- Data Collection
- Harvesting



Research Activities





Research Activities





YM14-M1Y11-6



YM14-M1Y11-7

Tested Varieties



YM14-M1Y11-8



YM14-Y514-16

Yezin 11



Yezin 14



Tested Varieties



Shwe War



Shwe Toe

Treatments



14 days old



17 days old

Chlorpyrifos +
 KNO_3



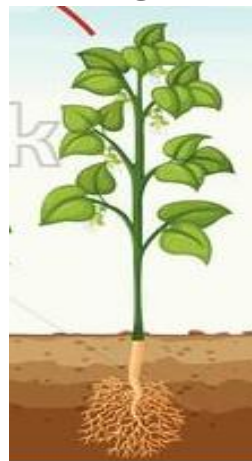
24 days old

Chlorpyrifos +
 KNO_3



33 days old

Imidacloprid



38 days old

Haxagon



47 days old



51 days old

Emamectin-Benzoate+
Urea + Boron



Field Day & Harvesting



Results

No	Varieties	Sowing Date	Flowerin g Date	50% Flowering Date	Harvesting Date
1	YM14-M1Y11-6	29.11.17	2.1.18	8.1.18	5.2.18
2	YM14-M1Y11-7	29.11.17	2.1.18	8.1.18	5.2.18
3	YM14-M1Y11-8	29.11.17	2.1.18	8.1.18	5.2.18
4	YM14-Y514-16	29.11.17	5.1.18	12.1.18	5.2.18
5	Yezin -11	29.11.17	27.12.18	4.1.18	5.2.18
6	Yezin -14	29.11.17	5.1.18	12.1.18	5.2.18
7	Yezin -1(Shwe War)	29.11.17	9.1.18	18.1.18	10.2.18
8	SHWE TOE -009	29.11.17	5.1.18	10.1.18	10.2.18

Results Cont.

Yield and Yield Components at Harvesting Time

No	Varieties	Pods/ plt	Seeds / pod	100 g seed weight	Yield/ plot(kg)	Yield/ acre (bsk)
1	YM14-M1Y11-6	13	11	6.5	8.00	11.02
2	YM14-M1Y11-7	12	10	6.5	8.00	11.02
3	YM14-M1Y11-8	10	10	6.5	9.33	12.86
4	YM14-Y514-16	10	9	6.5	6.88	9.49
5	Yezin -11	13	9	6.5	7.33	10.10
6	Yezin -14	10	9	6.5	10.66	14.70
7	Yezin -1(Shwe War)	10	9	7.5	9.33	12.86
8	SHWE TOE -009	10	9	7.0	10.44	14.39

Findings

**YM14-M1Y11-6, YM14-M1Y11-7, YM14-M1Y11-8,
YM14-Y514-16, Yezin -11**

- ▶ Moderated Yield
- ▶ Good growth rate
- ▶ Resistance to Yellow Moasic
- ▶ Uniformity & Erect in Flowering
- ▶ Uniformity of Ripening

Findings

Yezin -14

- ▶ High Yield
- ▶ Good growth rate
- ▶ Resistance to Yellow Moasic
- ▶ Uniformity & Erect in Flowering
- ▶ Uniformity of Ripening
- ▶ Late harvesting result dehisce

Findings Cont.

Yezin -1(Shwe War -Marketable crop)

- ▶ Uniformity of Flowering
- ▶ Uniformity of Ripening
- ▶ High Yield
- ▶ Good in sprouting
- ▶ Stable market like EU because of its good quality
- ▶ Problem of Bacterial blight

Conclusion

Yezin -14

- Harvesting problem because of pod Dehisce

Shwe Toe

- Hybrid variety, High Seed Cost

Yezin -1 (Shwe War -Marketable crop)

- EU market, Local adaptability, Stable yield
- Famer Familiar variety

Recommendation

- From this trail, Yangon DOA recommend Yezin-1 (Shwe War) for Yangon region.
- Need to conduct varietal trails yearly
- By doing this,
 - ❑ Increase farmer's income
 - ❑ Assist the country's economy
 - ❑ Making farmer's strong impression and reliance on DOA

A close-up, slightly high-angle shot of a lush green bean field. The plants are densely packed, with large, heart-shaped green leaves and numerous small, yellow, pea-like flowers. The text "THANK YOU FOR YOUR ATTENTION!" is overlaid in the center in a blue, serif font with a white outline.

THANK YOU
FOR YOUR ATTENTION!