



Ministry of Agriculture, Livestock and Irrigation

Department of Agriculture

Magway Region, Magway District

MyoThit Township



# Post Harvest Technology in Monsoon

## Sesame

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## Goal; GAP Sesame Products

### Strategies; (4) Methods of post-harvesting stage in sesame crop

#### **Action;** (4) Methods of post-harvesting stage in sesame crop

**A;** Standing upright without piling

**B;** Standing upright after 2 days piling

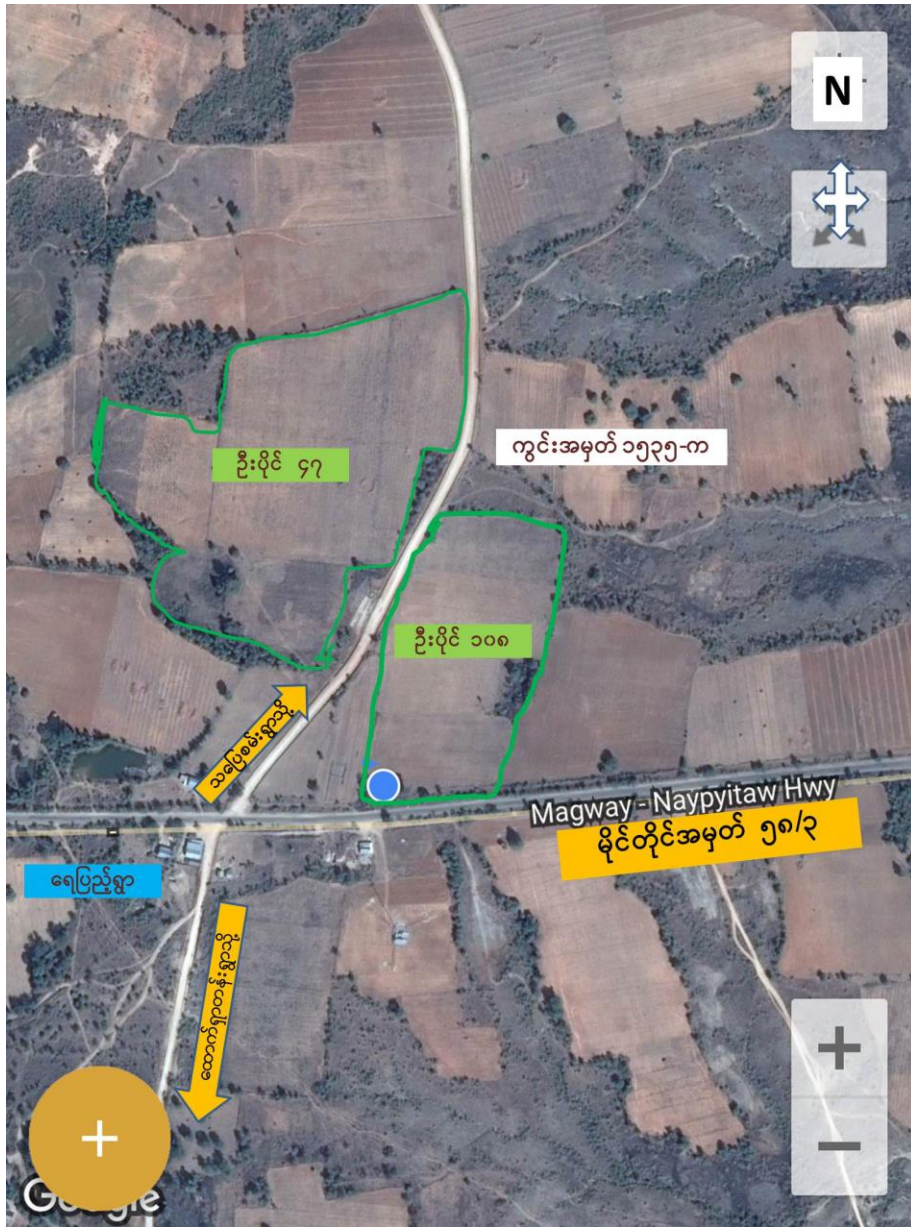
**C;** Standing upright after 7 days piling

**D;** Indoor desiccation by inverted position

## Site Selection

| Sr | Content            | Figure                               |
|----|--------------------|--------------------------------------|
| 1  | Township           | MyoThit Township                     |
| 2  | Tract and village  | YaePyae Tract , Yae Pyae Village)    |
| 3  | Kwin, Block No     | Kwin No.(1535-A), No. 47 and 108     |
| 4  | Farmer             | U Phyu Gyi and U Zaw Oo              |
| 5  | Trial              | 0.5 ac x 4 methods ( Replication 2 ) |
| 6  | Crop, Variety      | Sesame, (Sa Mone Nat; စမုံနက်)       |
| 7  | Crop life-span day | 91 days                              |

# Site Selection



# Trial A; Standing upright without piling



## Trial B ; Standing upright after 2 days piling



## Trial C ; Standing upright after 7 days piling



# Trial D ; Indoor desiccation by inverted position



# Checking FFA content of sesame after threshing and cleaning



## Occurrence (1)

| Sr | Type  | After harvesting to threshing | Colour     | FFA No. | Price For Buyer |
|----|---|-------------------------------|------------|---------|-----------------|
| 1  | <b>Trial A</b><br>Standing upright without piling         | 7 Days                        | Black      | 1       | 75000           |
| 2  | <b>Trial B</b><br>Standing upright after 2 days piling    | 5 Days                        | Black      | 2       | 75000           |
| 3  | <b>Trail C</b><br>Standing upright after 7 days piling    | 8 Days                        | Black      | 4       | 75000           |
| 4  | <b>Trial D</b><br>Indoor desiccation by inverted position | 9 Days                        | Deep Black | 2       | 76500           |

➤ Remark; The Price is paid by buyer for seeing personally (1-9-2018).

## Occurrence (2)

| Sr | Type  | Weight<br>(kg/bsk) | Normal<br>(kg/bsk) | Comparison<br>kg/bsk. |
|----|---|--------------------|--------------------|-----------------------|
| 1  | <b>Trial A</b><br>Standing upright without piling         | 23.64 kg           | 24.49 kg           | - 0.85 kg             |
| 2  | <b>Trial B</b><br>Standing upright after 2 days piling    | 24.96 kg           | 24.49 kg           | + 0.47 kg             |
| 3  | <b>Trail C</b><br>Standing upright after 7 days piling    | 24.96 kg           | 24.49 kg           | + 0.47 kg             |
| 4  | <b>Trial D</b><br>Indoor desiccation by inverted position | 25.06 kg           | 24.49 kg           | + 0.57 kg             |

## Occurrence (3); Cost and Income

| Sr | Type   | Average |             | Price<br>kyats/bsk | Total<br>income |
|----|--|---------|-------------|--------------------|-----------------|
|    |  | Acre    | Total (bsk) |                    |                 |
| 1  | Trial A<br>Standing upright without piling         | 0.5     | 2.3         | 75000              | 182850          |
| 2  | Trial B<br>Standing upright after 2 days piling    | 0.5     | 2.4         | 75000              | 180000          |
| 3  | Trial C<br>Standing upright after 7 days piling    | 0.5     | 2.0         | 75000              | 150000          |
| 4  | Trial D<br>Indoor desiccation by inverted position | 0.5     | 2.6         | 76500              | 198900          |

➤ Remark; The Price is paid by buyer for seeing personally (1-9-2018).

## Occurrence (4); Cost and Benefit Ratio

| Sr | Trial | Acre | Cost from Land preparation to harvesting | Cost after harvesting to cleaning | Total Cost | Total Income | C:B Ratio                 |
|----|-------|------|--|-----------------------------------|------------|--------------|---------------------------|
| 1  | A     | 0.5  | 126800                                   | 18000                             | 144800     | 182850       | 1: 0.26                   |
| 2  | B     | 0.5  | 126800                                   | 28000                             | 154800     | 180000       | 1: 0.16                   |
| 3  | C     | 0.5  | 126800                                   | 28000                             | 154800     | 150000       | <sup>(-)</sup><br>1: 0.03 |
| 4  | D     | 0.5  | 126800                                   | 131250                            | 258050     | 198900       | <sup>(-)</sup><br>1: 0.23 |

# After sowing of plant growth stage



# Preparation for Trial D ;



# Trial D ; Indoor desiccation by inverted position of data collection



Sharing our occurrences in Sesame Post Harvest Technology to JICA;  
Project For Profitable Irrigated Agriculture In Western Bago Region  
(PROFIA) Mr. Kanamoto and Group



# Outcomes

| Trial | Strength  | Weakness  |
|-------|---|---|
| A     | <ul style="list-style-type: none"><li>▪ Safe for labour power.</li></ul>  | <ul style="list-style-type: none"><li>▪ Unevenly dry and long time for threshing</li><li>▪ Free from market demanded</li><li>▪ More unfilled grains</li></ul> |
| B     | <ul style="list-style-type: none"><li>▪ Evenly dry</li><li>▪ More filled grains</li><li>▪ FFA No. is lower than 2</li></ul> | <ul style="list-style-type: none"><li>▪ Need more labour power</li></ul>  |

# Outcomes

| Trial | Strength  | Weakness  |
|-------|---|---|
| C     | <ul style="list-style-type: none"><li>▪ Nothing special</li></ul>   | <ul style="list-style-type: none"><li>• Low Quality Grains</li><li>• FFA No. is 4</li></ul> |
| D     | <ul style="list-style-type: none"><li>• Good quality seeds</li><li>• <b>More mature seeds</b></li></ul> Market Demanded <ul style="list-style-type: none"><li>• Less Loss</li></ul> | <ul style="list-style-type: none"><li>• More investment and more labour cost</li></ul>      |

# Field-day for extension in Post Harvesting of sesame crop





**Thank you  
for your attention**

မြေမှန် - မျိုးမှန် - စိုက်နည်းမှန်  
ရာသီမှန် အောင် စိုက်

With best regards,  
Nwe Nwe Khaing  
Deputy Staff officer<sub>21</sub>