

Ministry of Agriculture, Livestock and Irrigation



**Department of Agriculture
Tanintharyi Region, Myeik District
Palaw Township**



**DEMONSTRATION OF RUBBER
RAIN GUARD TAPPING
IN RAINY SEASON**

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Background History of Palaw Township

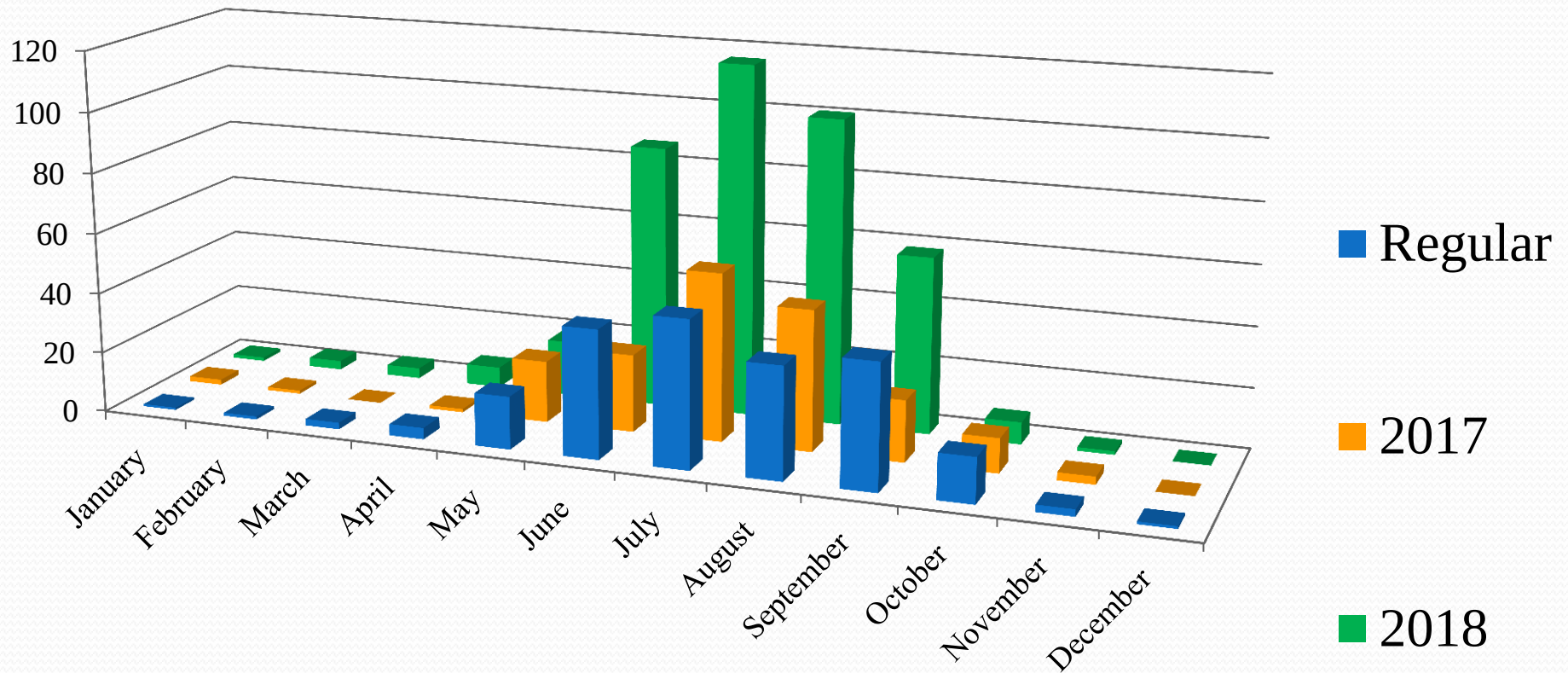


- Palaw Township is in Myeik District, Tanintharyi Region.
- North Latitude $12^{\circ}\text{H} - 20'$ and $13^{\circ}\text{H} - 25'$ & East Longitude $98^{\circ}\text{H} - 33'$ and $98^{\circ}\text{H} - 52'$.
- Rainfall is (185) inches and (134) raining days in 2017.
- East of Palaw is Tanintharyi township, West is Andaman Sea, South is Myeik township and North is Thayetchaung township.
- Palaw Township is saturated at (12) feet above sea level.
- Area Square Mile is (655.17) sq-mile or (4,259,309) Acres.



RAINFALL DATA OF PALAW TOWNSHIP

Inches





Location

Farmer-Daw Chit Htwe

Village- Kyell ,

Town - Palaw Township

Myeik District,

Tanintharyi Region.





RUBBER RAIN GUARD TAPPING SYSTEM

What is rain guard?

Any suitable device, fixed above the tapping panel to keep the panel and the collection cup dry during the rainy season.

Objective

- Crop yield decrease due to non tapping, late tapping & wash out during rainy season. Very well compensated by protecting the tapping panel from rain.
- Increased production yields depending on the plantation location and efficiency, improvements of about 25% have been made.



TYPES OF RAIN GUARD



(1) Polythene skirt type



(2) Tapping shade type



(3) Cap type





Materials of Rain Guard (Skirt Type)

(1) Scraper

(2) Polythene sheets

(18” for low level fields and 24” for CUT fields with gauge 250)

(3) Strip ribbon (gauge 400)

(4) Stapler and pins

(no.10 for virgin bark and 24/6 for renewed bark)

(5) Rain guarding compound



Rain Guarding Materials (Skirt Type)





COMPOSITION OF RAIN GUARD COMPOUND

- Bitumen
- Kerosene
- Talc powder





Activities of Rain Guarding (Skirt Type)

- Using a scraper, lightly scrap the dry bark 15 cm above the tapping cut and parallel to it.
- The scrapped band should extend a minimum of 15 cm from front and back end of tapping cut.
- The scrapped band should have at least 10 cm width.



- After removing the dust, oozed out latex during scrapping, firmly smear a thin film (2mm thick and 4cm wide) of rain guard compound on the scraped band uniformly using hand.
- From the front end of tapping cut, the slope of 15 cm scrapped area must be a little higher and not parallel to tapping panel to prevent the entry of water.



- Fix the Polythene sheet (18" for low level fields and 24" for CUT fields with gauge 250) on the lower half of the rain guarding compound (2cm) by making frills at equal distances.
- Start making frills from back channel opening towards front channel with 1-1.5cm width.



- Fix the 1" strip ribbon (gauge 400) of around 2cm width firmly using suitable stapler pins over the cut end of polythene in such a way that 1cm width of strip will over the polythene and the remaining portion over the compound.(1 -1.2 mtr/tree).
- Start fixing stapling pins over the ribbon from back end by extending the strip tightly (staple pin no.10 for virgin bark and 24/6 for renewed bark)
- Use pins in every frill and fix it horizontally covering the frills as well as the upper part of 1" strip.





Then apply the final coat of rain guard compound to completely cover the strip uniformly. (About 130gm compound/ tree).





COST OF RUBBER RAIN GUARDING PER PLANT

Sr	Items	Cost per plant (kyats)
1	Polythene sheet	200
2	Strip Ribbon	10
3	Stapler and Pins	10
4	Rain guard compound	140
5	Labor costs	100
	Total	460



COSTS AND BENEFITS OF RUBBER RAIN GUARD TAPPING (200 plts / acre)

- Two hundreds rubber plants gave (7)lbs by Tapping system S_2D_2 .
- Total cost of rain guard tapping for one acre = **212,000** kyats
 - Labor (1) person $\times$ (15) days $\times$ (4) months $\times$ (2000) kyats = 120,000 kyats
 - Cost of rain guarding for one acre = 92,000 kyats
- RSS (7) lbs $\times$ (15) days $\times$ (4) months $\times$ (750)kyats = **315,000** kyats
- Net profit of rain guard tapping = **103,000** kyats



Conclusion



Advantages

- Normal S_2D_2 tapping system get (105) tapping days in a year.
- Rain guard tapping (S_2D_2) system get (165) tapping days in a year.
- Therefore, Rain guard tapping system get high yield due to more tapping days. It was more suitable for rainy season.

Disadvantages

- Tapping panel may be caused by fungus.
- Rain caused natural coagulation during collection.

Conclusion

- **Rain guard tapping should be done for sustainable natural rubber production. It was suitable for smallholder.**



DEMONSTRATION OF RAIN GUARD TAPPING



**THANK YOU
FOR YOUR ATTENTION**

