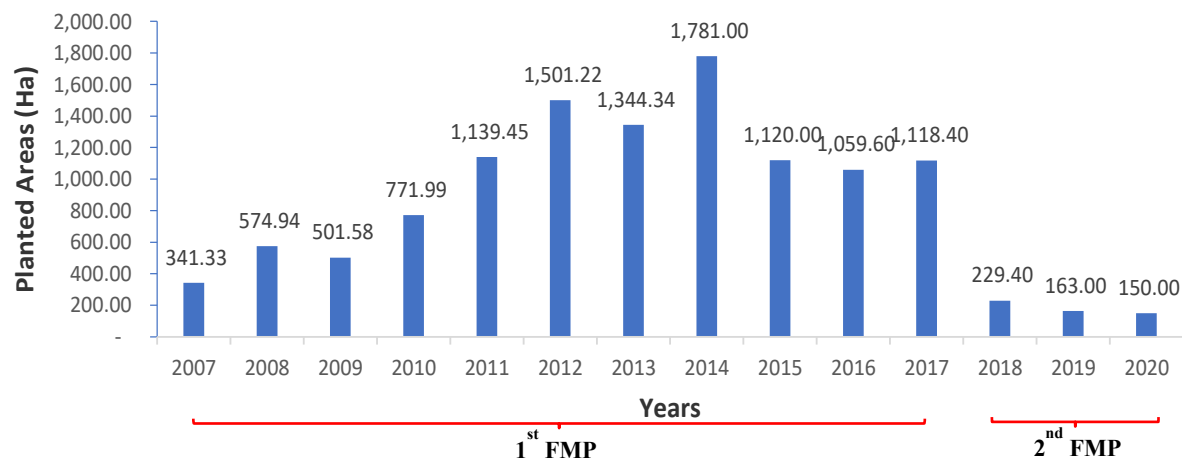


## **FLORA AND FOREST ECOSYSTEM**

The vegetation within the USM SFMP consists of climax forest formations including mixed dipterocarp forest, ultramafic forest, montane forest and seasonal freshwater swamp forest. The disturbance that had affected the forest quality could be caused by past timber harvesting and forest fire. Retaining the whole forest areas under the natural forest management activities is the best effort in maintaining the forest ecosystem function as forest corridor for plant dispersal and wildlife movement.

From the previous FMP (2007 to 2017) about 11,253.85 (Figure 2) hectares was planted/rehabilitated mostly at Bukit Piton Forest Reserve with support and collaboration by the local and international stakeholders such as Sime Darby Plantation Sdn Bhd and Sime Darby Foundation (Forest Rehabilitation and Protection of Orang Utan Habitats in Northern Ulu Segama Forest Reserve); WWF Malaysia and Yayasan Sabah (Forest Restoration Project in Northern Ulu Segama Forest Reserve). Most seedlings that were planted such as pioneer species, dipterocarps and 'fruit trees'.

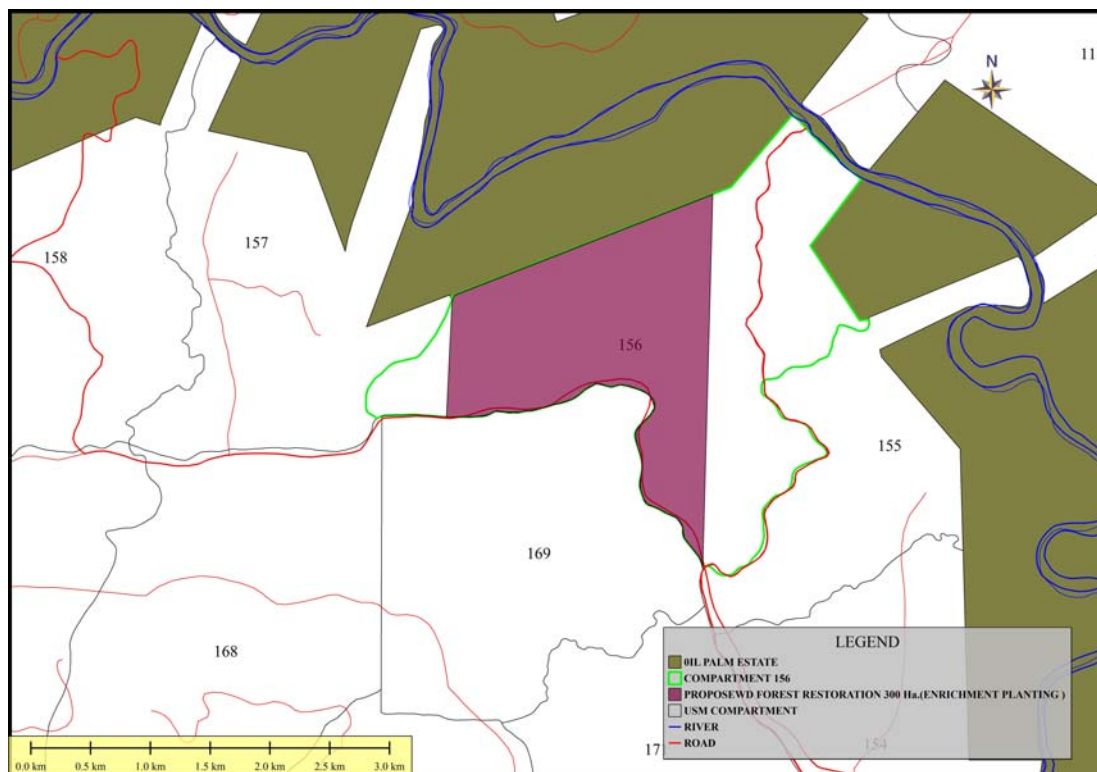
**Figure 2:** Restoration works in Bukit Piton FR since 2007



In 2020, a total remaining about 150 hectares were successfully planted in Cpt 156, Lower Kawag by appointed contractor funded under the HoB (Table 6, Figure 3)

**Table 6:** Restoration area in 2020

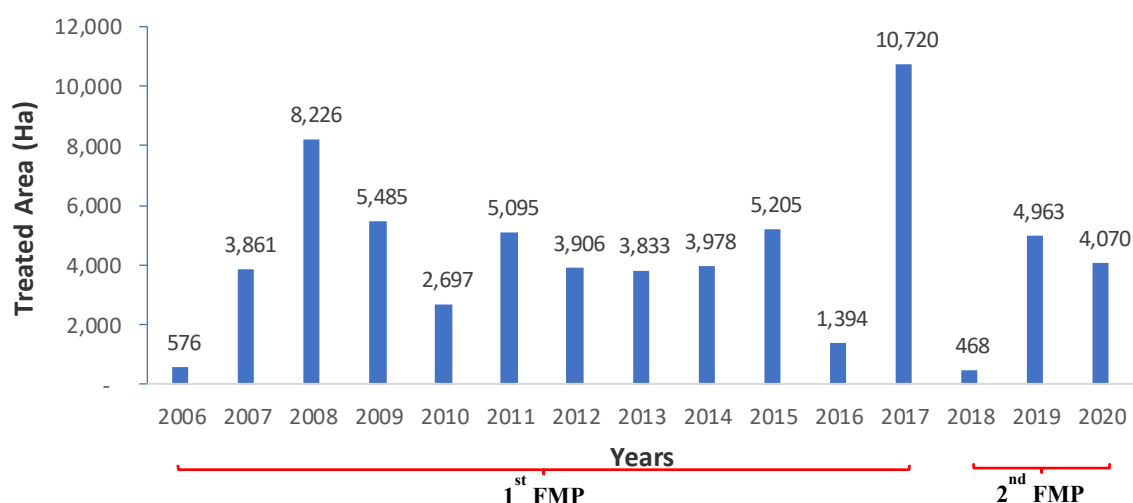
Compartment ID	Forest Reserve	Planted (Ha)	Funder
156	Ulu Segama	150	HoB Fund (RMKe11)
150			



**Figure 3:** Tree planting at Compartment 156 (300 ha), Lower Kawag funded under the Heart of Borneo (HoB) RMKe11 Federal Fund

Silviculture activities from the first FMP (2006 to 2017) has treated about 54,976 hectares of logged over forests mostly at southern and northern part of Ulu Segama Forest Reserve with support funding from Yayasan Sabah, Projek Perhutanan Masyarakat (PPM) and Heart of Borneo (HoB) project under the 11th Malaysian Plan (Federal Fund) (Figure 4).

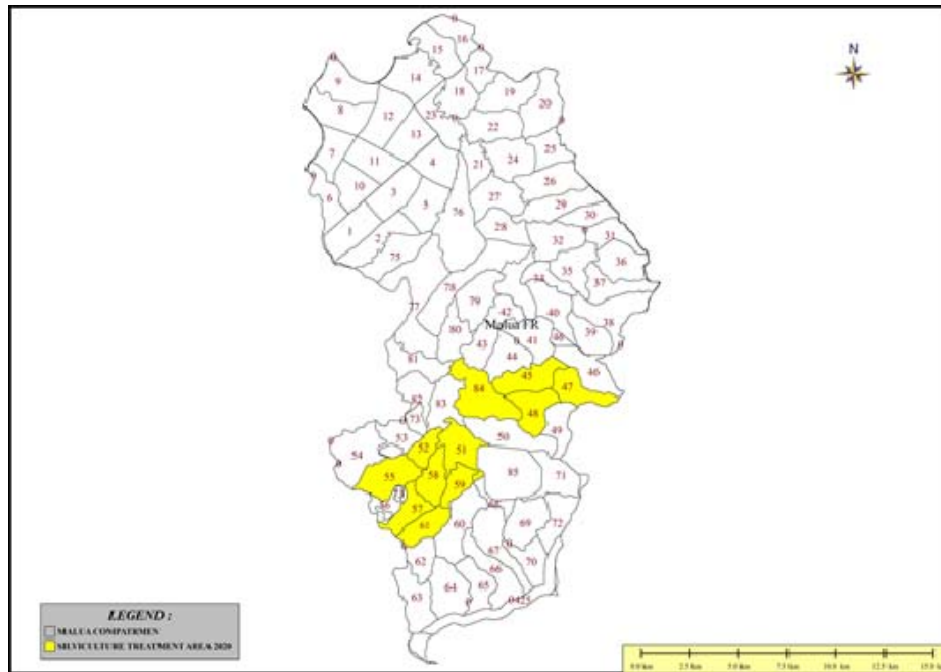
**Figure 4:** Silviculture treatment in the 1<sup>st</sup> FMP



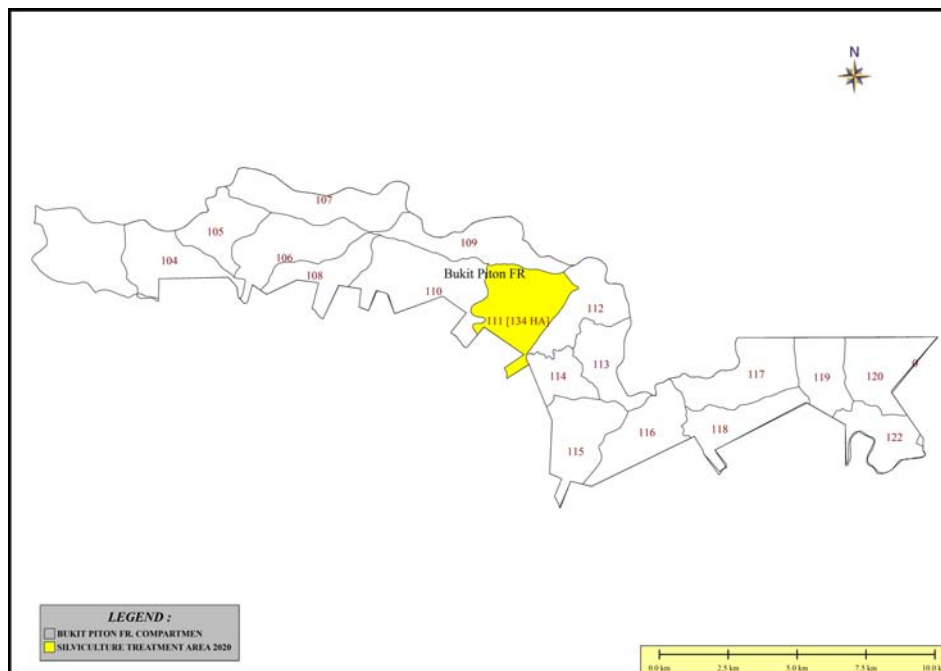
In 2020, silviculture activities under the second FMP have treated about 4,070 ha at the Malua FR and Bukit Piton FR funded via the 11<sup>th</sup> Malaysian Plan (Federal) and WWF-Malaysia (Table 7, Figure 5 and Figure 6).

**Table 7:** Silviculture treatment in 2020

Compartment	Target (Ha)	Achievement (Ha)	Funded by
45	405	405	Funded under the 11th Malaysian Plan (Federal)
47	344	344	
48	370	370	
51	417	417	
52	200	200	
55	467	467	
57	288	288	
58	310	310	
59	216	216	
61	300	300	
84	619	619	WWF-Malaysia
111	134	134	
<b>Total</b>	<b>4,070</b>	<b>4,070</b>	



**Figure 5:** Silviculture treatment at the Malua FR funded under the RMKe11 (Federal)



**Figure 6:** Silviculture treatment at the Bukit Piton FR funded under WWF-Malaysia (Cpt.111)