



Republic of the Philippines  
**Department of Environment and Natural Resources**  
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## MEMORANDUM

FOR : The Regional Executive Director  
DENR MIMAROPA Region  
1515 L&S Bldg., Roxas Blvd.  
Ermita, Manila

THRU : The PENR Officer  
DENR-PENRO Palawan  
Santa Monica, Puerto Princesa City  
Palawan

FROM : The CENR Officer  
CENRO Calamianes Islands

SUBJECT : **REPORT ON THE IMPLEMENTATION OF LAWIN FOREST  
AND BIODIVERSITY PROTECTION SYSTEM WITHIN THE  
FOREST CONSERVATION AREA (FCA) OF BPR FOR THE  
1<sup>ST</sup> QUARTER OF 2023**

DOCUMENTS  
ATTACHED : 1. BPRMO Report on Lawin Accomplishment for 1<sup>st</sup> Quarter of 2023

DATE : **MAR 28 2023**

Respectfully forwarded is the report of the BPR Management Office for 1<sup>st</sup> Quarter of 2023 on the implementation of Lawin Forest and Biodiversity Protection System Accomplishments. Based on the report, the BPRMO patrolled a total of 96.19 or 106.87% of their target as per BPRMO's 1<sup>st</sup> Quarter Lawin Patrol Plan of 2023

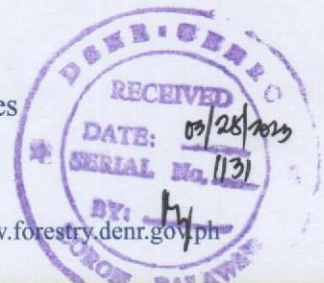
For the Regional Executive Director's information and record.

  
**RODNEY G. VERIAN**





Republic of the Philippines  
Department of Environment and Natural Resources  
**FOREST MANAGEMENT BUREAU**  
Visayas Avenue, Diliman, 1100 Quezon City  
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Forest Management Bureau  
**BPR MANAGEMENT OFFICE**  
**RELEASED**

## MEMORANDUM

FOR : The OIC, CENR Officer  
CENRO Calamianes Islands  
Coron, Palawan

FROM : The BPR Management Office Technical Personnel

SUBJECT : **REPORT ON THE IMPLEMENTATION OF LAWIN FOREST  
AND BIODIVERSITY PROTECTION SYSTEM WITHIN THE  
FOREST CONSERVATION AREA (FCA) OF BPR FOR THE  
1<sup>ST</sup> QUARTER OF 2023**

DOCUMENT  
ATTACHED : 1. BPRMO SMART-generated report

DATE : **MAR 28 2023**

Date: **03.28.2023**  
By: **ag** PP **12/188/4**  
Ref. Code: **LA0320**

With the implementation of the Lawin Monitoring and Patrolling System, respectfully submitted is the detailed report of the Busuanga Pasture Reserve Management Office (BPRMO) on the results of the Lawin monitoring and patrolling conducted in the Municipalities of Busuanga and Coron, Palawan within the BPR area for 1<sup>st</sup> Quarter of 2023.

### **I. Findings and Result**

Two (2) Patrol Teams were dispatched during the conduct of this activity within the Forest Conservation Area (FCA) of BPR situated in the Municipalities of Coron and Busuanga, Palawan. The target distance from January to March 2023 is 90 kilometers (km) based on the Lawin Patrol Plan for 1<sup>st</sup> Quarter of 2023. However, for clarifications, there is no Lawin activity on the month of January 2023 by the BPRMO personnel since all of the personnel/patrollers were not yet renewed until February 2023. In order to compensate the target distance of 30 km for the month of January 2023, the BPRMO personnel adjusted the target for the month of March from 30 km to 60 km. Based on the results, the BPRMO Patrol Teams were able to traverse an aggregate distance of 96.19 km or 106.87 % (Table 1).

Table 1. BPRMO LAWIN monitoring and patrolling accomplishment for 1<sup>st</sup> Quarter of 2023

Months	Target (Km)	Accomplishment (Km)	Difference (Km)	Accomplishment (%)
January	30	--	--	--
February	30	48.64 (overall)	18.64	162.14
Feb 17, 2023	(void)	(-19.20)	--	--
February	30	28.79 (total)	-1.20	95.98
March	30	67.40	7.40	224.67
<b>Overall</b>	<b>90</b>	<b>96.19</b>	<b>(6.19)</b>	<b>106.87</b>

*\*The accomplishment rate is computed based on the 30 kilometer target per CENRO/CA per month compared to the sum of the distance patrolled per CENRO/CA.*

Table 2. Shows a total of 1,201 Forest Condition Counts (FCCs) recorded during the patrolling. Open Uncultivated (OUC) appears to have the highest figure recorded for the 1<sup>st</sup> Quarter of 2023 with 538 or 45%, while Old Growth Forest have the least with 27 counts or 2%. The remaining forest condition such as: Early Secondary Forest (ESF), Open-Cultivated (OC), and Advance Secondary Forest (ASF) with corresponding total figures of 279 (23%), 291 (18%), and 138 (12%), respectively. Based on the SMART analysis, the total FC with good condition has a total count of 444 or 37% which includes OGF, ASF and ESF. The OUC count appears to be significant, but this is due to teams traversing large grassland areas which is a natural feature of BPR while conducting the patrol.

Table 2. Patrol Observation: Forest Condition Counts

Forest Condition											
OGF		ASF		ESF		OUC		OC		Total	
Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
27	2	138	12	279	23	538	45	219	18	1201	100

*OGF-Old Growth Forest. ASF-Advance Secondary Forest. ESF-Early Secondary Forest. OUC-Open, Uncultivated. OC-Open, Cultivated*

With respect to the presence of natural regenerants, 560 FCCs or 46% of the total FCC were recorded while 652 FCCs or 54% with absence of natural regenerants. There were (11) or 1% recorded dense natural regenerants, while two hundred fifty-nine (259) FCCs or 22% and two hundred seventy-nine (279) or 23% are recorded as moderate and sparse natural regenerants, respectively (Table 3).

Table 3. Patrol Observation: Natural Regenerant Count

Regenerants											
Presence of Regenerant								No Regenerants		Total Forest Condition	
Dense		Moderate		Sparse		Total					
Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
11	1	259	22	279	23	560	46	652	54	1201	100

Table 4 shows the observed and recorded threats within the FCA of BPR. A total of twenty-eight (28) counts of threats were observed and recorded during the Lawin Patrolling

for the 1<sup>st</sup> Quarter of 2023. Slash and burn farming (kaingin) recorded the highest counts with fifteen (15) recorded occurrence or observation, followed by cutting of trees with eleven (11) count, and another attributed charcoal and non0timber forest products

Table 4. Patrol Observation: Threat Count

Threats				Total
Cutting of Trees	Charcoal	Slash and burn farming (kaingin)	Non-timber forest product	
11	1	15	1	28

As can be viewed from the map in Annex C, the threats observed/documented in the FCA from the month of January to March (1<sup>st</sup> quarter) 2023 are found in Barangays of Decalachao, Bintuan, Guadalupe, San Nicolas, Coron and Barangays of Sagrada, Buluang, Old Busuanga, Bogtong, New Busuanga, Old Busuanga and San Rafael, Busuanga Palawan. Since there is no Lawin activity in January 2023 as indicated in Part I of this report, the forest protection effective report for this quarter was projected from December 2022 to March 2023. As a result, the threat index was computed as 0.12 threats per kilometer (T/Km) in December 2022, up to 0.33 T/Km in the month of February 2023. However, threat index for February 2023 was computed as approximately 0.33 threats per kilometer (T/Km), since, the value could be lower if the patrol on February 17, 2023 will be deleted since it was considered as void due to device error. Further, the threat index for March 2023 was computed as 0.22 threats per kilometer (T/Km). Likewise, the value can change since the target patrol distance were adjusted from 30 km to 60 km to compensate the target for the month of January 2023 as explained in Part I.

## II. Future Actions

As initial action of the BPRMO on the threats observed/ recorded during the conduct of Lawin activity, will send a communication letters to the concerned barangays for their information regarding the illegal activities in their area within BPR.

## III. Remarks and Recommendations

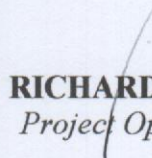
1. Frequency of the visibility of patrolling and Lawin monitoring within the Forest Conservation Area of BPR is being intensified to include weekends, if necessary, in order to prevent and immediately address any possible threats within the forested areas of BPR;
2. As stipulated in the future actions, will send letter addressed to the concerned Barangays with a record of threats observed in every conduct of Lawin patrolling and monitoring to inform and assists them if it requires urgent action;
3. Observed unlawful activities on the ground are being thoroughly investigated and documented and filing of appropriate criminal complaints against the offenders pursuant to Presidential Decree No. 705 and other environmental laws, if so warrant;
4. The BPRMO for this year is targeting the conduct of seminar/IEC to the Local Government Unit (LGUs)/Sangguniang Bayan for information of unlawful

activities within the area covered by the BPR in their municipality; to provide awareness and possible collaboration for crafting possible solutions on the recorded illegal activities;

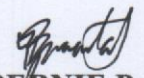
5. Conduct of rehabilitation activities such as tree planting, enrichment planting and assisted natural regeneration to maintain and accelerate the recovery of forest cover; and
6. The BPRMO will communicate through Lawin Helpdesk for the deletion of error patrol data which was synched to the SMART Connect of the BPR.

For the OIC, CENRO's information, record and further instruction/s, if any.

Prepared by:

  
**RICHARD JOHN P. GALAGATE**  
*Project Operations Control Officer*

  
**DESIREE YVETTE A. SANDOVAL**  
*Project Development Officer*

  
**BERNIE P. MANTAL**  
*Project Development Officer*



Republic of the Philippines  
**Department of Environment and Natural Resources**  
**Lawin Forest and Biodiversity Protection System**

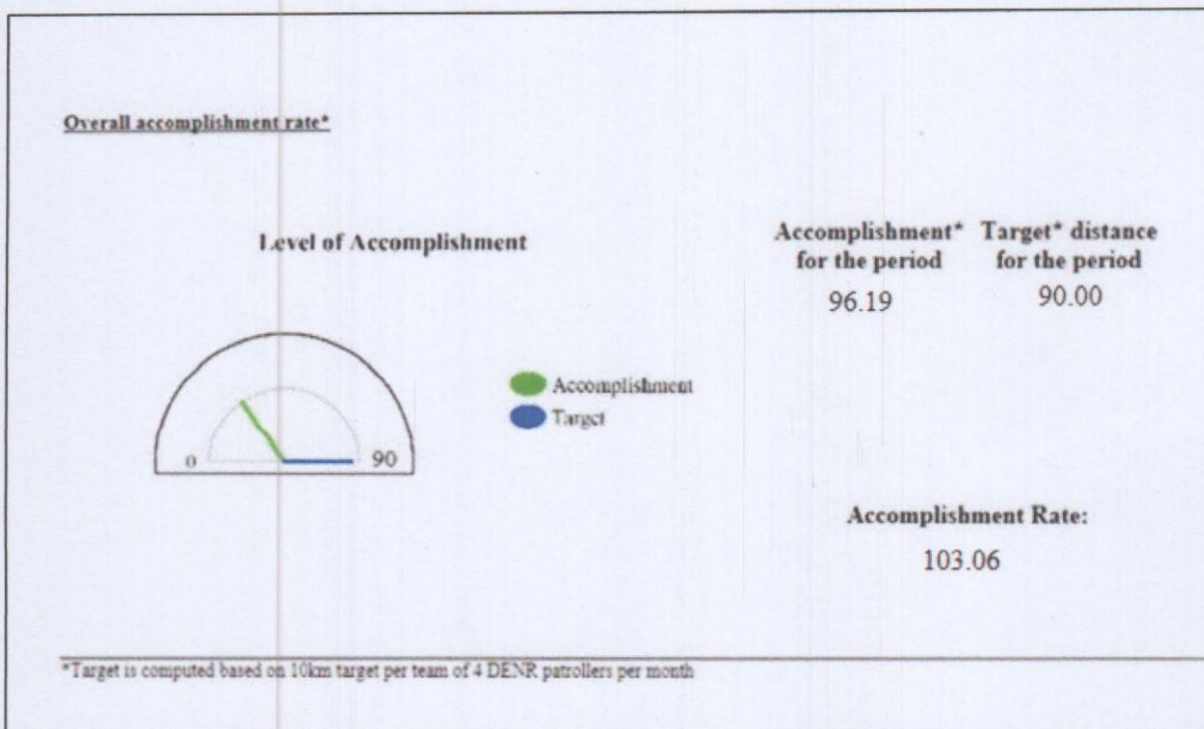
### Summary Patrol Report

#### Region 04B - BPR

Number of days analyzed: 90

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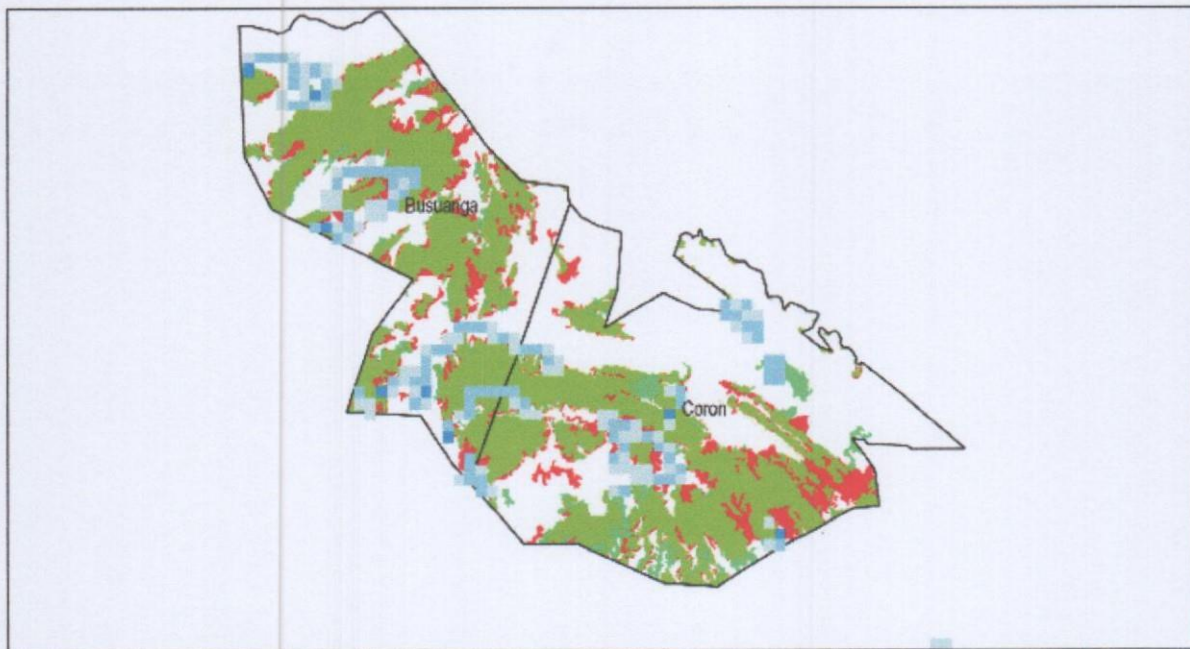
This report presents the patrol performance and quality of the implementing unit during the above stated period of time (number of days). The report contains information on accomplishment rate, coverage and intensity of patrolling in different forest types on patrol distance covered per patroller. The information is meant to provide a basis for patrol planning for the next planning period and implementation of adaptive measures to enhance patrolling as necessary.



*\*note: For this 1<sup>st</sup> Quarter, there is no Lawin activity on the month of January by the BPRMO personnel since all of the personnel/patrollers were not yet renewed until February 2023.*

*In order to compensate the target distance of 30 km for the month of January 2023, the BPRMO personnel adjusted the target for the month of March from 30 km to 60 km.*

Patrol coverage and intensity



Patrol distance covered by each forest ranger

Forest Ranger	Patrol Distance Accomplished
Gricilito Lagao	86.72
Leonardo Puno	86.72
Michael Acbang	80.88
Rommel Gacayan	80.88
Richard Galagate	55.99
Archie Agnes	42.02
Emerson Montanez, Jr.	42.02
Dindo Sarmiento	32.87
Joy Kristel Degorio	28.68
Desiree Yvette Sandoval	25.53
Bernie Mantal	11.49



Republic of the Philippines

Department of Environment and Natural Resources

Lawin Forest and Biodiversity Protection System

## Forest Protection Effectiveness Report

### Region 04B - BPR

Number of days analyzed:

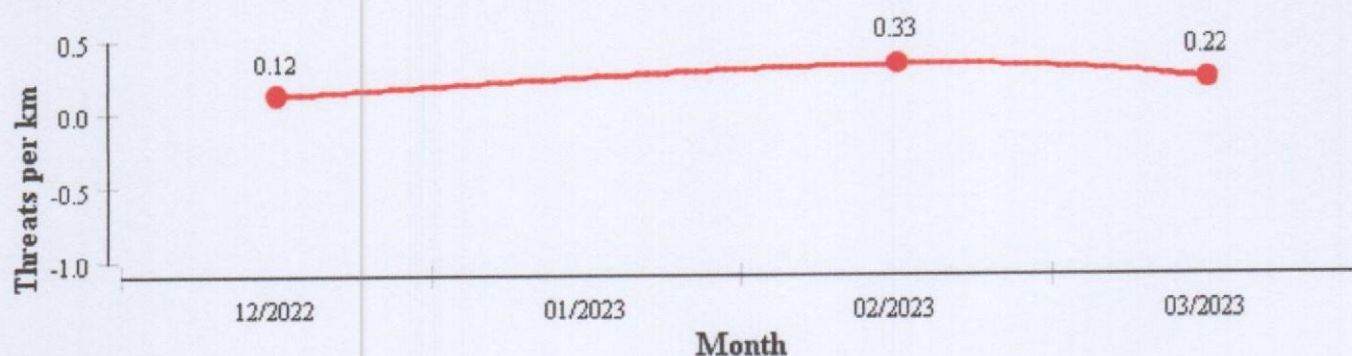
121

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This reports presents trends in observations of forest condition, regeneration, threats and indicator species. The combined presentation allows for an evaluation if protection efforts are effective, conservation targets are met and the forest achieves the desired future forest condition. Protection efforts are effective, when records of forest condition, regeneration and indicator species show an upward trend towards more observations more and denser regeneration, particularly in degraded forest areas. Increasing trends in indicator species suggest that the improved forest condition is providing a better habitat for forest dependent species. All trends presented are put in relation to the patrol effort to provide comparability. Forest cover data were derived from 2003 and 2010 NAMRIA land cover maps.

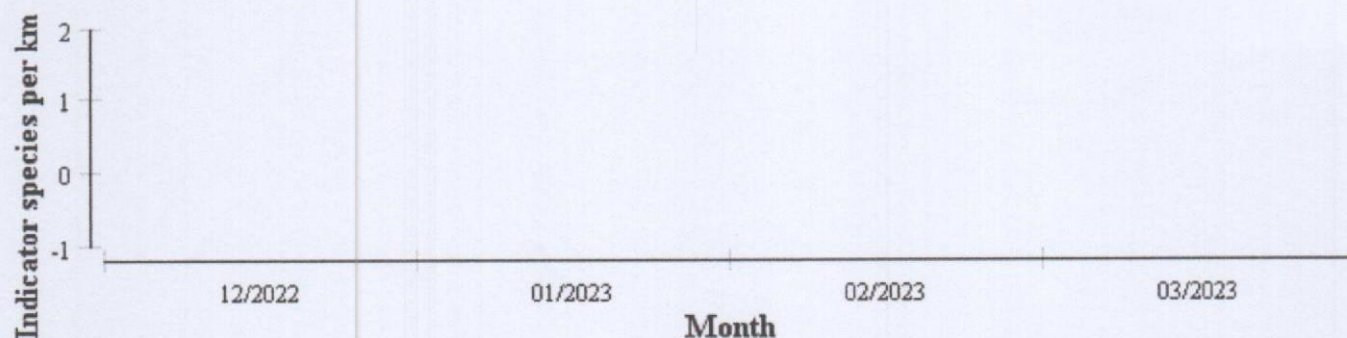
### Trends of Observations per Patrol Kilometer in the Forest Conservation Area

#### Trend in Threats



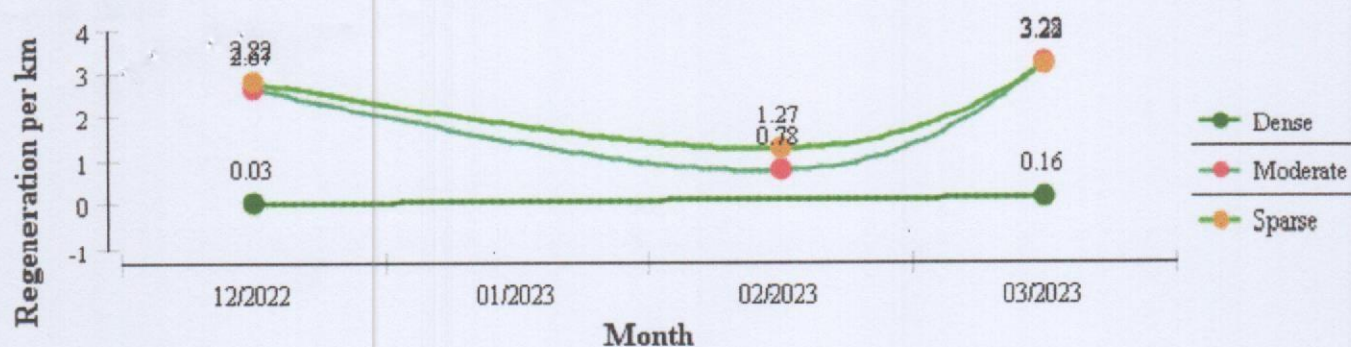
A decreasing trend in threats in the forest conservation area mean effective forest protection; an increasing trend means the opposite.

#### Trend in Indicator Species



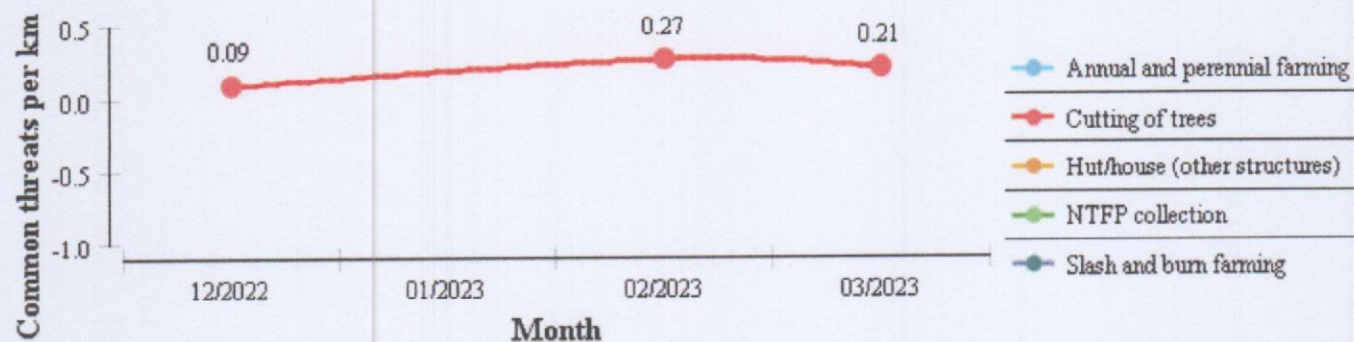
An increasing trend in indicator species in the forest conservation area means effective forest protection; a decreasing trend means the opposite.

### Trends in Regeneration Density



An increasing trend in regeneration means effective forest protection; a decreasing trend means the opposite.

### Trends of most common Threats



*\*note: For this 1<sup>st</sup> Quarter, there is no Lawin activity on the month of January by the BPRMO personnel since all of the personnel/patrollers were not yet renewed until February 2023.*

*\*In order to compensate the target distance of 30 km for the month of January 2023, the BPRMO personnel adjusted the target for the month of March from 30 km to 60 km.*

*\*the patrol on February 17, 2023 is considered void and was not counted to the total distance accomplished by the personnel as well as the threats recorded.*



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**Region 04B - BPR**

Number of days analyzed: 90

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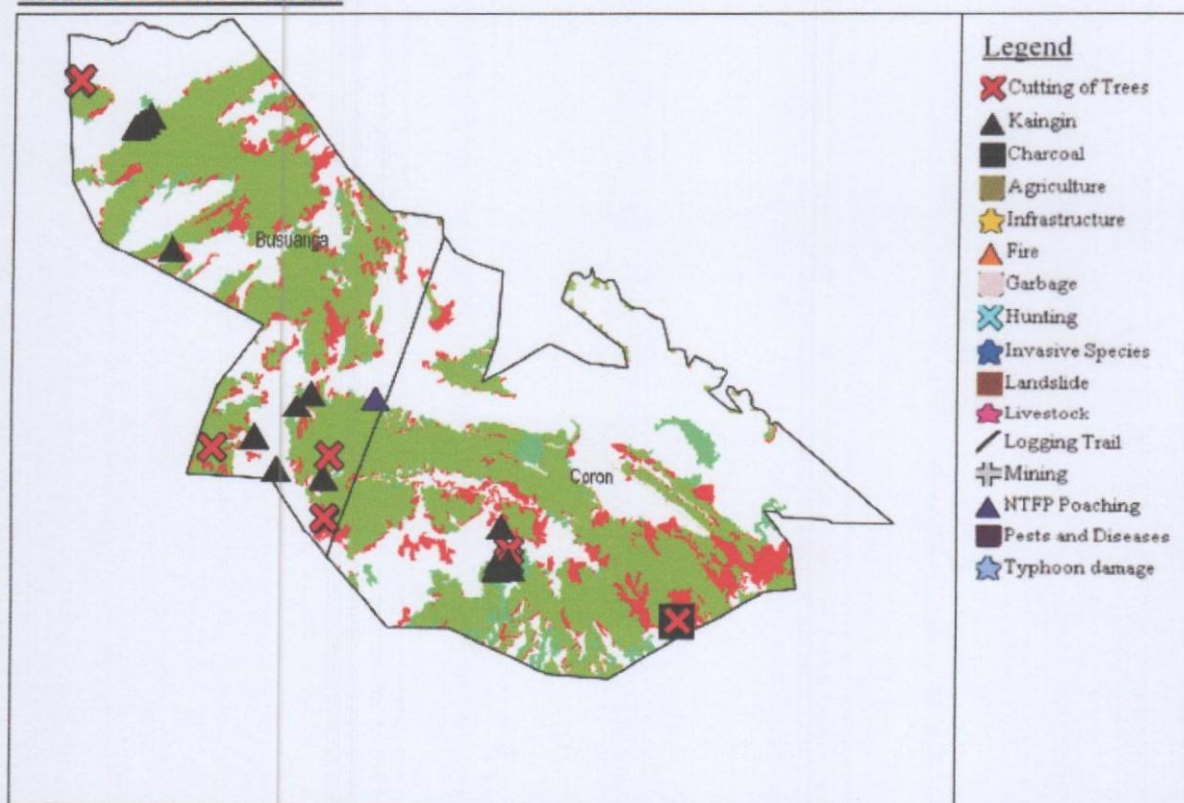
This report presents information for the implementing units of DENR to effectively plan and carry out actions for addressing observed threats to the forest.

**Threats observed and level of response required**

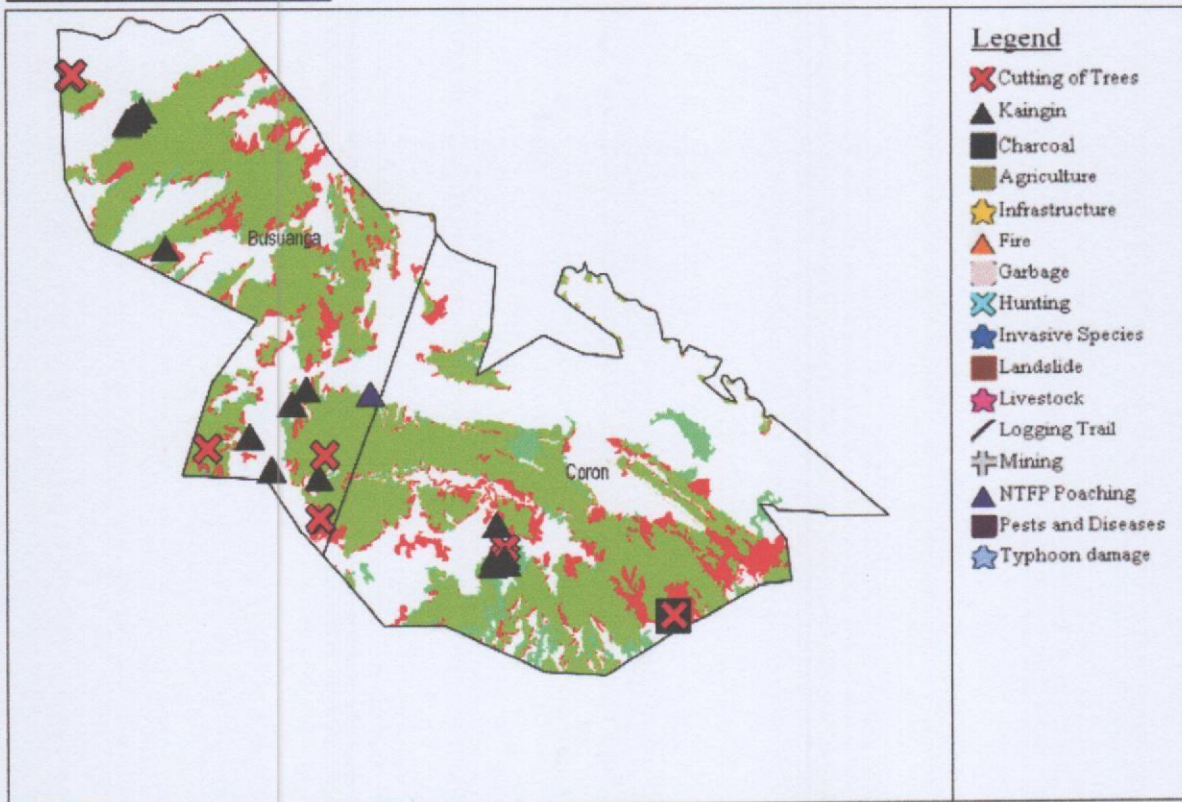
Threat	No. of Observations	Emergency - Immediate action required!	Level 1 - Action required within a week	Level 2 - Action required within a month
Slash and Burn Farming (Kaingin)	15	0	0	15
Cutting of Trees	14 (-3 void) = 11	0	0	14 (-3 void) = 11
Charcoal	1	0	0	1
Non-timber Forest Product (NTFP) Poaching	1	0	0	1

*\*Note: the patrol on February 17, 2023, is considered void and was not counted to the total distance accomplished by the personnel as well as the threats recorded.*

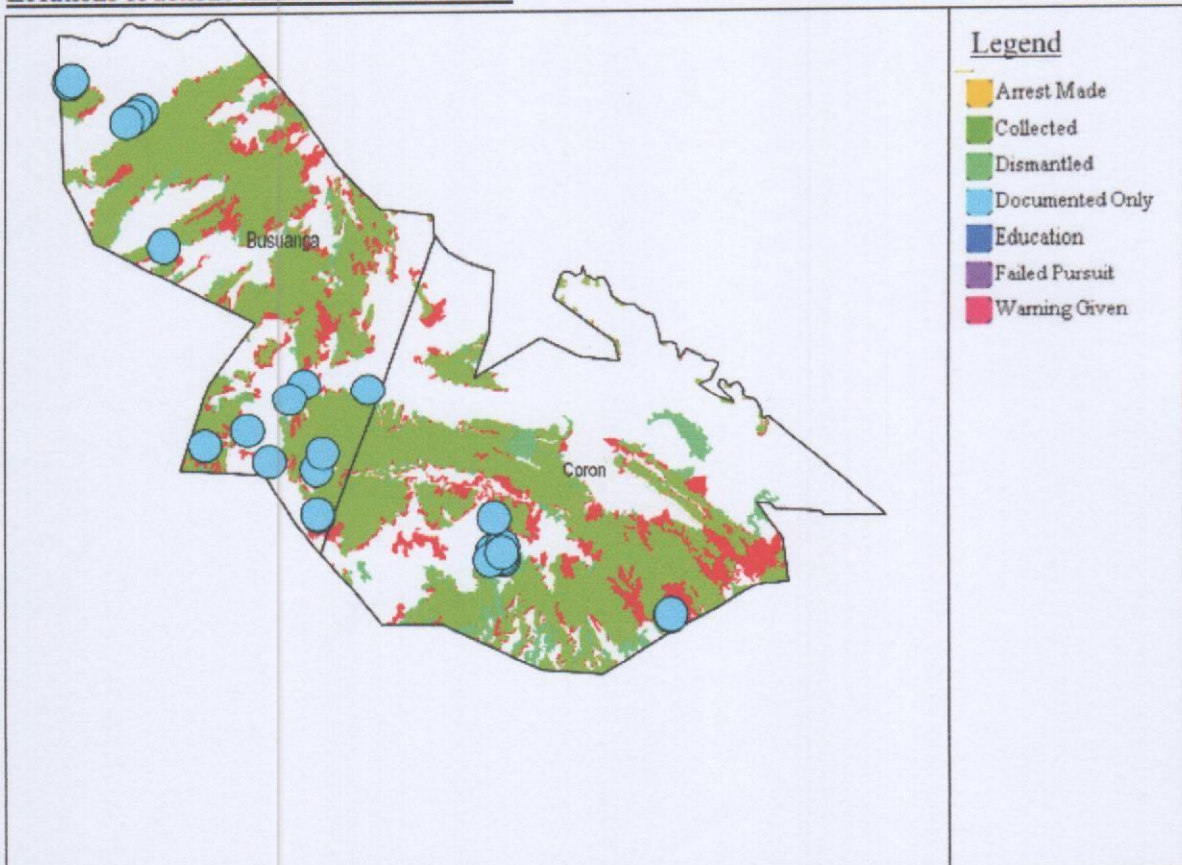
**Location of observed threats**



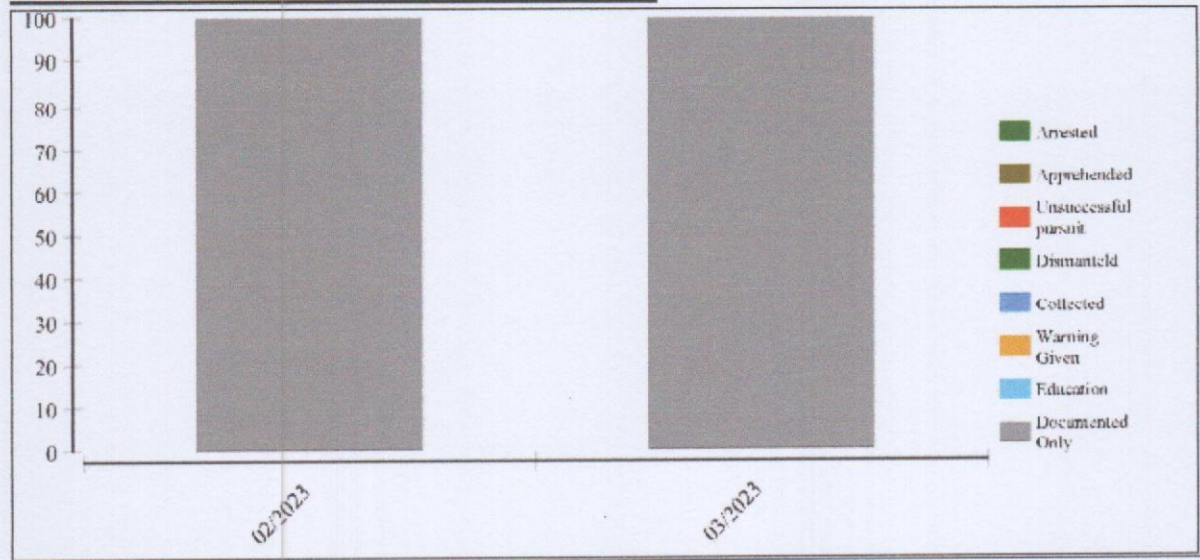
### Location of observed threats



### Locations of actions taken to address threats



**Actions taken to address observed threats during patrols**



### Region 04B - BPR

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Immediate action required	Requires action within a week	Requires action within a month	No further action required
		31 (-3 void) = 28	

**Number of threats requiring post-patrol responses:**

No action yet	Requires further action	Addressed	Invalid observation

[illegible]