



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 OIC, CENR Officer
CENRO Calamianes Islands
Coron, Palawan

SUBJECT : **REPORT ON THE IMPLEMENTATION OF LAWIN FOREST
AND BIODIVERSITY PROTECTION SYSTEM OF BPRMO
WITHIN THE FOREST CONSERVATION AREA (FCA) OF BPR
FOR THE ANNUAL (JANUARY TO DECEMBER) OF 2022**

DOCUMENTS
ATTACHED : BPRMO Report on LAWIN Accomplishment for Annual (January to
December) of 2022

DATE : DEC 05 2022

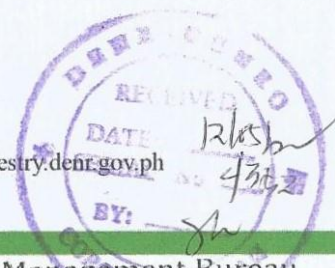
Respectfully forwarded is the report of the BPR Management Office for Annual (January to December) of 2022 on the implementation of LAWIN Forest and Biodiversity Protection System Accomplishments. Based on the report, the BPRMO patrolled a total of 396.41 km or 110.11 % of their target as per BRPMO's 1st to 4th Quarter Lawin Patrol Plan of 2022.

For the Regional Executive Director's information and record.

For and in the absence of the OIC, CENRO



FERDINAND GATCHALIAN
Forester III
In-charge, Office of the CENRO



MEMORANDUM

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

Forest Management Bureau
BPR MANAGEMENT OFFICE
RELEASED

Date: 12.05.2022

By: ago pp 16/168/1

Ref. Code: 4A0296

FROM : The BPR Management Office Technical Personnel

SUBJECT : **REPORT ON THE IMPLEMENTATION OF LAWIN FOREST AND BIODIVERSITY PROTECTION SYSTEM OF BPRMO WITHIN THE FOREST CONSERVATION AREA (FCA) OF BPR FOR THE ANNUAL (JANUARY TO DECEMBER) OF 2022**

DOCUMENTS

ATTACHED : 1. BPRMO SMART-generated report

DATE : DEC 05 2022

With the implementation of the LAWIN Forest and Biodiversity Protection System, respectfully submitted is the detailed report of the Busuanga Pasture Reserve Management Office (BPRMO) on the results of the Lawin monitoring and patrolling activities conducted in the Municipalities of Busuanga and Coron, Palawan within the BPR area for the Annual (January to December) of 2022.

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 December 2022 is 360 kilometers (km) in reference on the Lawin Patrol Plan from 1st Quarter to 4th Quarter of 2022. Based on the results, the BPRMO Patrol Teams were able to traverse an aggregate distance of 396.41 km or 110.11 % from January to December of 2022 (Table 1).

Table 1. BPRMO LAWIN monitoring and patrolling accomplishment for Annual of 2022

M/Q/Y	Target (km)	Accomplishment (km)	Difference (km)	Accomplishment (%)
January	30	32.62	(2.62)	112.50
February	30	34.32	(4.32)	114.40
March	30	32.73	(2.73)	109.10
1 st Quarter	90	100.8	(9.67)	112
April	30	33.77	(3.77)	112.56
May	30	35.18	(5.18)	117.26

June	30	30.80	(0.80)	102.66
2nd Quarter	90	99.75	(9.75)	110.83
July	30	32.49	(2.49)	108.30
August	30	32.27	(2.27)	107.56
September	30	32.21	(2.21)	107.36
3rd Quarter	90	96.97	(6.97)	107.74
October	30	32.43	(2.43)	108.10
November	30	33.84	(3.84)	112.80
December	30	32.62	(2.62)	108.73
4th Quarter	90	98.89	(8.89)	109.87
TOTAL	360	396.41	(36.41)	110.11

**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 4,140 Forest Condition Counts (FCCs) recorded during the patrolling. Early Secondary Forest (ESF) appears to have the highest figure recorded from January to December of 2022 with a total of 1,661 counts or 40%, while Old Growth Forest has the least with 135 counts or 3%. The remaining forest conditions such as: Open-Uncultivated (OUC), Open-Cultivated (OC), and Advance Secondary Forest (ASF) with corresponding total figures of 1,305 (32%), 578 (14%), and 461 (11%), respectively. Based on the SMART analysis, the total FC with the good condition has a total count of 2,257 or 54.51% 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	%
135	3	461	11	1,661	40	1,305	32	578	14	4,140	100

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

With respect to the presence of natural regenerants, 2,404 FCCs or 58% of the total FCC were recorded with presence of natural regenerants while 1,736 FCCs or 42% with absence of natural regenerants. There were seventy-four (74) or 2% recorded dense natural regenerants, while nine hundred fifty-eight (958) FCCs or 23% and one thousand seven hundred thirty-six (1,736) or 42% 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	%
74	2	958	23	1,372	33	2,404	58	1,736	42	4,140	100

Table 4 shows the observed and recorded threats within the FCA of BPR. A total of sixty-four (64) counts of threats were observed and recorded during the implementation of Lawin Forest and Biodiversity Protection System for the whole year (January to December) of 2022. Cutting of trees recorded the highest counts with thirty-five (35) recorded occurrence or observations, huts or houses and other infrastructures with twelve (12) recorded counts and slash and burn farming (kaingin) with seventeen (17) recorded counts.

Table 4. Patrol Observation: Threat Count

Threats	No. of observation
Cutting of Trees	35
Huts or houses and other infrastructures	12
Slash and Burn Farming (Kaingin)	17
Total	64

As can be viewed from the map in Annex C, the threats observed/documented in the FCA of BPR from January to December 2022 were found both in the Municipality of Coron and Busuanga (please see Table 5); such as Barangays of Decalachao, Bintuan, Guadalupe and San Nicolas, Coron, Palawan and Barangays of Sto. Niño, Quezon, Cheey, New Busuanga, Old Busuanga, and San Rafael, Busuanga, Palawan. The barangays with the most observed/recorded threats were Bintuan, Guadalupe, San Nicolas, Coron and Cheey with corresponding figures of 22, 16, 11 and 10, while Brgy. Sto. Niño, Busuanga and Brgy. San Rafael, Busuanga has the least with one (1) recorded. The current threat index was computed as 0.12 threats per kilometer (T/Km) in January 2022, up to 0.21 T/Km in the month of March 2022, down to 0.03 T/km in April 2022 up to 0.26 T/Km for the month of June. The highest recorded was 0.40 T/km for the month of July, down to 0.06 on August, increased to 0.19 on September 2022, increased again to 0.34 on October 2022, slightly decrease to 0.24 on November 2022 and continuously decreased to 0.12 this December 2022. On the other hand, no threat/s recorded in the month of February 2022 and May 2022.

Table 5. Threats Recorded per barangay in 2022

	cutting of trees	slash and burn farming	huts or houses and other infrastructures	Total
CORON				
• Guadalupe	2	7	7	16
• Bintuan	7	6	9	22
• Decalachao	5	1	1	7
• San Nicolas	11	0	0	11

BUSUANGA				
• Sto. Niño	1	0	0	1
• Quezon	3	1	1	5
• Cheey	5	4	1	10
• New Busuanga	3	1	1	5
• San Rafael	0	1	0	1
• Old Busuanga	0	3	0	3

II. Actions Taken by the BPRMO for the observed threats

Pertaining to the sixty-four (64) observed/recorded threats from January to December of 2022, the BPRMO conducted the following actions to address the following threats (Pleased see the table 6)

Table 6. Actions taken from January to December 2022

Date of the conduct of Lawin activity	Threats	Actions taken
CORON		
Jan. 25, 2022	• (2) slash and burn farming (kaingin)	<ul style="list-style-type: none"> Conducted joint Information and Education Campaign (IEC) on Aug. 3, 2022 together with the CENRO Calamianes Island in Brgy. San Nicolas, Coron, Palawan; Memoranda dated August 05, 2022, for the FMB Director and the OIC, CENRO Coron re: joint Information and Education Campaign (IEC) on Aug. 3, 2022 together with the CENRO Calamianes Island in Brgy. San Nicolas, Coron, Palawan; Letter dated August 09, 2022, addressed to Brgy. San Nicolas, Coron re: conduct of joint IEC; Submitted internal memorandum dated August 23, 2022 pertaining to the evaluation report dated August 23, 2022, re: the unlawful occupation of
March 17, 2022	<ul style="list-style-type: none"> (1) cutting of tree (1) huts or house and other infrastructure 	
March 23, 2022	<ul style="list-style-type: none"> (1) slash and burn farming (kaingin) (1) cutting of tree (1) huts or house and other infrastructure 	
June 7, 2022	• (2) cutting of trees	
July 5, 2022	• (8) cutting of trees	
July 19, 2022	<ul style="list-style-type: none"> (2) slash and burn farming (kaingin) (2) huts or house and other infrastructures 	
Aug. 25, 2022	• (2) huts or house and other infrastructures	
Sept. 21, 2022	• (1) cutting of tree	
Oct. 07, 2022	• cutting of tree	

Oct. 12, 2022	<ul style="list-style-type: none"> • (6) cutting of trees • (1) huts or house and other infrastructure • (2) slash and burn farming (kaingin) 	<p>Ms. Buena-Gracia P. Dela Cruz in So. Cabangcoroan, Brgy. Guadalupe, Coron, Palawan within the BPR</p> <ul style="list-style-type: none"> • Conducted Information and Education Campaign (IEC) on Sept. 29, 2022 in Brgy. Bintuan, Coron, Palawan; • Memoranda dated October 04, 2022, for the FMB Director and the OIC, CENRO Coron re: Information and Education Campaign (IEC) on Sept. 29, 2022 in Brgy. Bintuan, Coron, Palawan; • Letter dated October 04, 2022, addressed to Brgy. Bintuan, Coron re: conduct of joint IEC; • Sent communication letters dated October 10, 2022, addressed to the Brgy. Decalachao for information regarding the conducted LAWIN patrolling and monitoring within their area of jurisdiction. • Sent communication letters dated October 13, 2022, addressed to the Barangays of Bintuan and Guadalupe for information regarding the conducted LAWIN patrolling and monitoring within their area of jurisdiction. • Conducted Information and Education Campaign (IEC) on Nov. 10, 2022 in Brgy. San Jose, Coron, Palawan; • Memoranda dated November 15, 2022, for the FMB Director and the OIC, CENRO Coron re: Information and Education Campaign (IEC) on Nov. 10, 2022 in Brgy. San Jose, Coron, Palawan; • Conducted Information and Education Campaign (IEC) on Nov. 10, 2022 in Brgy. Decalachao, Coron, Palawan; • Memoranda dated November 15, 2022, for the FMB Director and the OIC, CENRO Coron re: Information and Education Campaign (IEC) on Nov. 10,
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		2022 in Brgy. Decalachao, Coron, Palawan
Nov. 09, 2022	<ul style="list-style-type: none"> • (2) cutting of trees 	<ul style="list-style-type: none"> • Sent communication letter dated November 21, 2022, addressed to the Brgy. Decalachao, Coron for information regarding the conducted LAWIN patrolling and monitoring within their area of jurisdiction.
Nov. 16, 2022	<ul style="list-style-type: none"> • (2) huts or house and other infrastructures 	<ul style="list-style-type: none"> • Conducted investigation during the conduct of LAWIN on November 16, 2022 on the claimant of the area; • Memorandum dated November 21, 2022, pertaining to the spot report regarding the recorded unlawful occupation during the conduct of LAWIN activity in Brgy. Bintuan, Coron, Palawan within the BPR; • Sent communication letters dated November 22, 2022, addressed to Mr. Eliterio Buruanga (claimant) and Brgy. Bintuan for information regarding the the unlawful occupation recorded by the BPRMO personnel during the conduct of LAWIN activity inside the FCA of BPR; • Sent communication letter dated November 21, 2022, addressed to Brgy. Bintuan, Coron for information regarding the conducted LAWIN patrolling and monitoring within their area of jurisdiction;
Dec. 01, 2022	<ul style="list-style-type: none"> • (1) cutting of tree • (2) huts or house and other infrastructures 	<ul style="list-style-type: none"> • Drafted communication letter dated December 02, 2022, addressed to the Brgy. Bintuan, Coron for information regarding the conducted LAWIN patrolling and monitoring within their area of jurisdiction.

Dec. 02, 2022	<ul style="list-style-type: none"> (1) cutting of tree 	<ul style="list-style-type: none"> Drafted communication letter dated December 05, 2022, addressed to the Brgy. Decalachao, Coron for information regarding the conducted LAWIN patrolling and monitoring within their area of jurisdiction.
BUSUANGA		
Jan. 27, 2022	<ul style="list-style-type: none"> (1) slash and burn farming (kaingin) 	<ul style="list-style-type: none"> Conducted IEC on June 29, 2022 at Brgy. San Rafael, Busuanga, Palawan; Memoranda dated July 06, 2022, for the FMB Director and for the OIC, CENRO Coron re: Information and Education Campaign (IEC) on June 29, 2022 in Brgy. San Rafael, Busuanga, Palawan; Conducted IEC on July 20, 2022 at Brgy. Old Busuanga, Busuanga, Palawan; Memoranda dated July 21, 2022, for the FMB Director and for the OIC, CENRO Coron re: Information and Education Campaign (IEC) on July 20, 2022 in Brgy. Old Busuanga, Busuanga, Palawan; Facilitated tree-planting activity on Aug. 27, 2022 at Sitio Bobot, Brgy. San Rafael, Busuanga, Palawan; Conducted IEC on August 30, 2022 at Brgy. New Busuanga, Busuanga, Palawan; Memoranda dated September 02, 2022, for the FMB Director and for the OIC, CENRO Coron re: Information and Education Campaign (IEC) on Aug. 30, 2022 in Brgy. New Busuanga, Busuanga, Palawan; Memoranda dated September 07, 2022, for the FMB Director and for the OIC, CENRO Coron re: tree planting activity on Aug. 27, 2022; Conducted IEC on September 29, 2022 at Brgy. Quezon, Busuanga, Palawan; Memoranda dated October 04, 2022, for the FMB Director and for the OIC, CENRO Coron re: Information and
April 12, 2022	<ul style="list-style-type: none"> (1) slash and burn farming (kaingin) *chainsaw apprehension, Tech Con, IEC, Admin Adjudication 	
June 10, 2022	<ul style="list-style-type: none"> (6) Slash and burn farming (kaingin) 	
July 8, 2022	<ul style="list-style-type: none"> (1) cutting of tree 	
Sept. 13, 2022	<ul style="list-style-type: none"> (3) Cutting of trees (1) huts or houses and other infrastructure (1) slash and burn farming (kaingin) 	
Sept. 21, 2022	<ul style="list-style-type: none"> (1) cutting of tree 	
Oct. 07, 2022	<ul style="list-style-type: none"> (1) cutting of tree 	
Nov. 11, 2022	<ul style="list-style-type: none"> (3) cutting of trees 	
Nov. 18, 2022	<ul style="list-style-type: none"> (1) cutting of tree 	

		<p>Education Campaign (IEC) on Sept 29, 2022 in Brgy. Quezon, Busuanga, Palawan;</p> <ul style="list-style-type: none"> • Sent communication letter dated October 13, 2022, addressed to the Brgy. Quezon for information regarding the conducted LAWIN patrolling and monitoring within their area of jurisdiction. • Conducted Information and Education Campaign (IEC) on Nov. 10, 2022 in Brgy. Sto. Niño, Busuanga, Palawan; • Memoranda dated November 16, 2022, for the FMB Director and the OIC, CENRO Coron re: Information and Education Campaign (IEC) on Nov. 10, 2022 in Brgy. Sto. Niño, Busuanga, Palawan; • Sent communication letter dated November 21, 2022, addressed to Brgy. Cheey, Busuanga for information regarding the conducted LAWIN patrolling and monitoring within their area of jurisdiction; • Conducted IEC on November 29, 2022 Brgy. Sagrada, Busuanga, Palawan (9:00 AM) Brgy. Bogtong, Busuanga, Palawan (11:00 AM) and Brgy. Salvacion, Busuanga, Palawan (2:00 PM) to present the results of the implementation of LAWIN Forest and Biodiversity Protection System conducted by the BPRMO personnel within the Forest Conservation Area (FCA) of BPR from January to November 2022 at the Municipality of Busuanga, Palawan;
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I. 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. To send communication letter address to the Barangay for the conduct of follow-through action of the BPRMO personnel 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 of 1975 as amended and other environmental laws, if so warrant;
4. Conduct of seminar/IEC to every barangay recorded with a high incidence of unlawful activities within the area covered by the BPR to provide awareness and educate the community on the importance of maintaining ecological and environmental balance in the locality and the benefits that could be derived from the forest and climate change mitigation; and
5. Conduct of rehabilitation activities such as tree planting, enrichment planting and assisted natural regeneration to maintain and accelerate the recovery of forest cover.

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



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

Summary Patrol Report

Region 04B - BPR

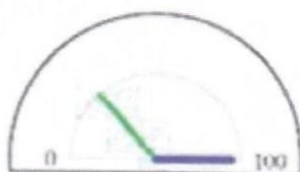
Number of days analyzed: 365

Dec 4, 2022 1:41 AM

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.

Overall accomplishment rate*

Level of Accomplishment



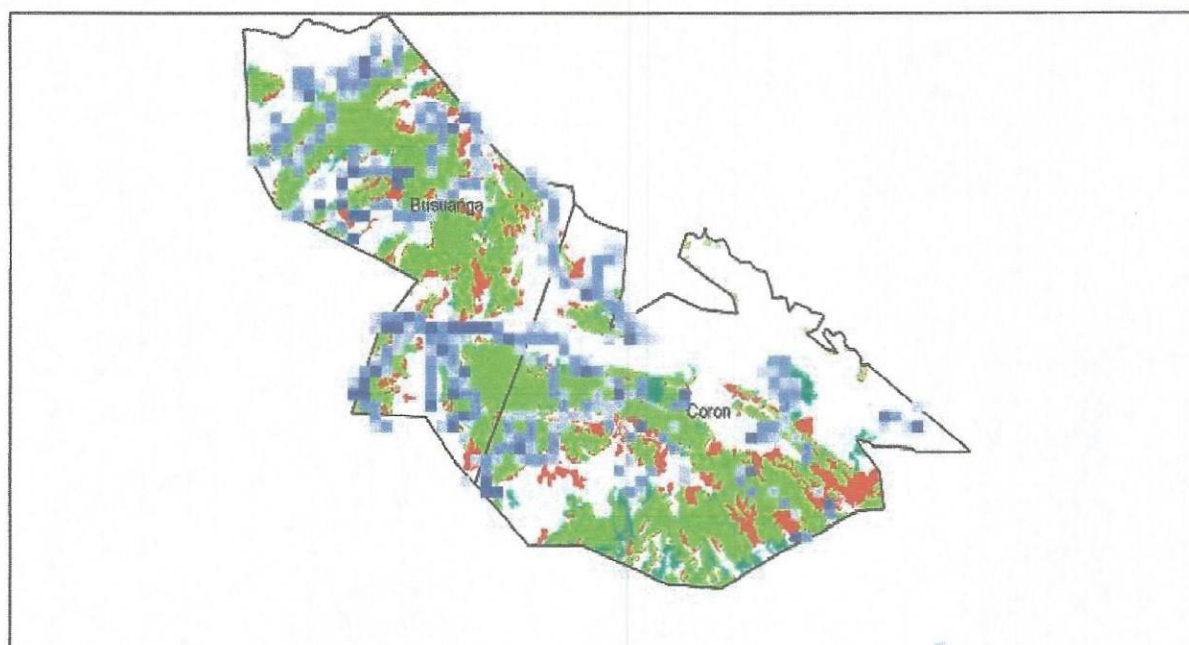
● Accomplishment
 ● Target

Accomplishment* for the period	Target* distance for the period
396.41	360

Accomplishment Rate:
 370.11

*Target is computed based on 10km target per team of 4 DENR patrolers per month.

Patrol coverage and intensity



Patrol distance covered by each forest ranger

Forest Ranger	Patrol Distance Accomplished
Rommel Gacayan	277.72
Michael Acbang	273.69
Dindo Sarmiento	270.98
Leonardo Puno	243.95
Gricilito Lagao	238.78
Archie Agnes	233.17
Jojie Montanez	220.27
Desiree Yvette Sandoval	207.47
Emerson Montanez, Jr.	139.91
Joy Kristel Degorio	120.83
Richard Galagate	35.22
Ibrahim Factuar	10.81
Roderick Vallejo	10.81



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: 365

Dec 4, 2022 1:38 AM

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.

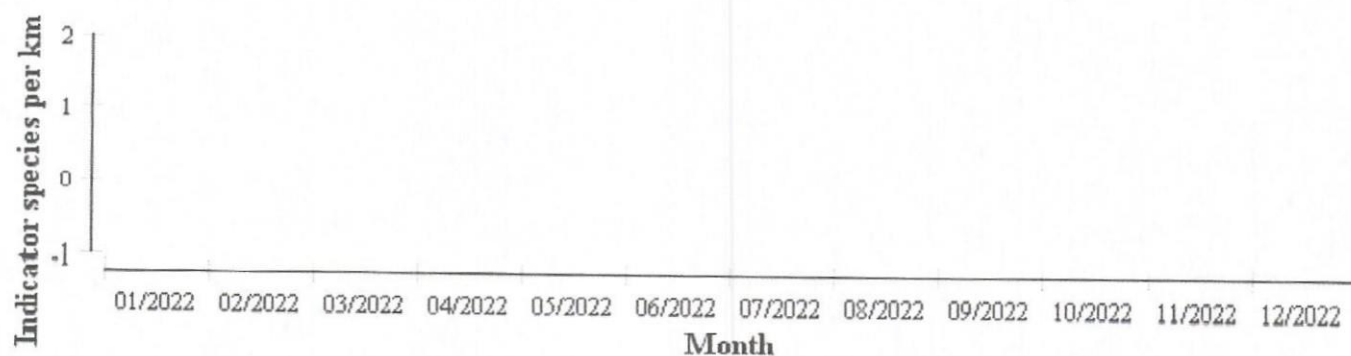
Trends of Observations per Patrol Kilometer in the Forest Conservation Area

Trend in Threats



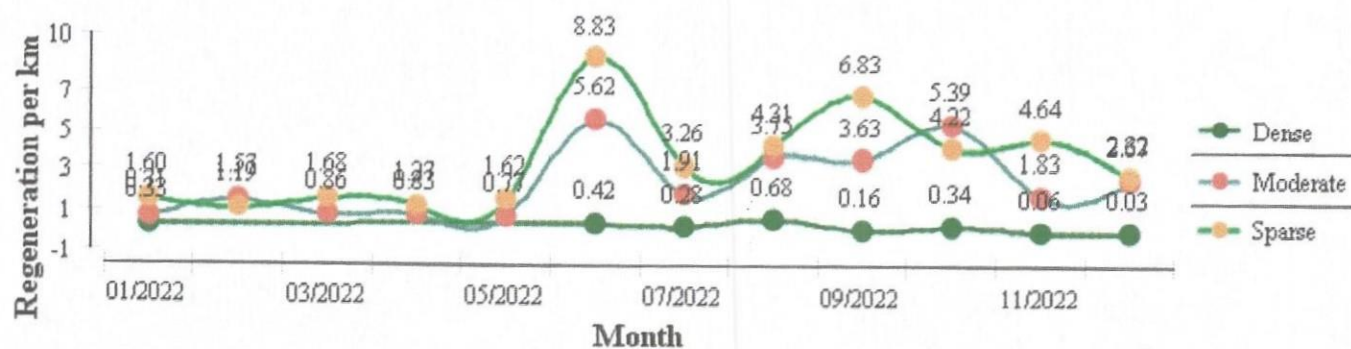
A decreasing trend in threats in the forest conservation area mean effective forest protection; an increasing trend means the opposite.

Trend in Indicator Species



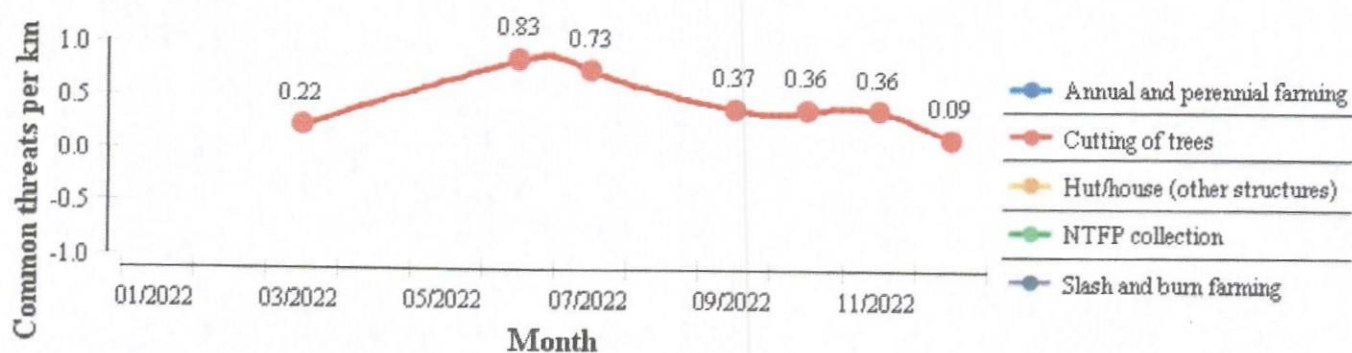
An increasing trend in indicator species in the forest conservation area means effective forest protection; a decreasing trend means the opposite.

Trends in Regeneration Density



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

Trends of most common Threats





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

Summary Threat Report

Region 04B - BPR

Number of days analyzed: 365

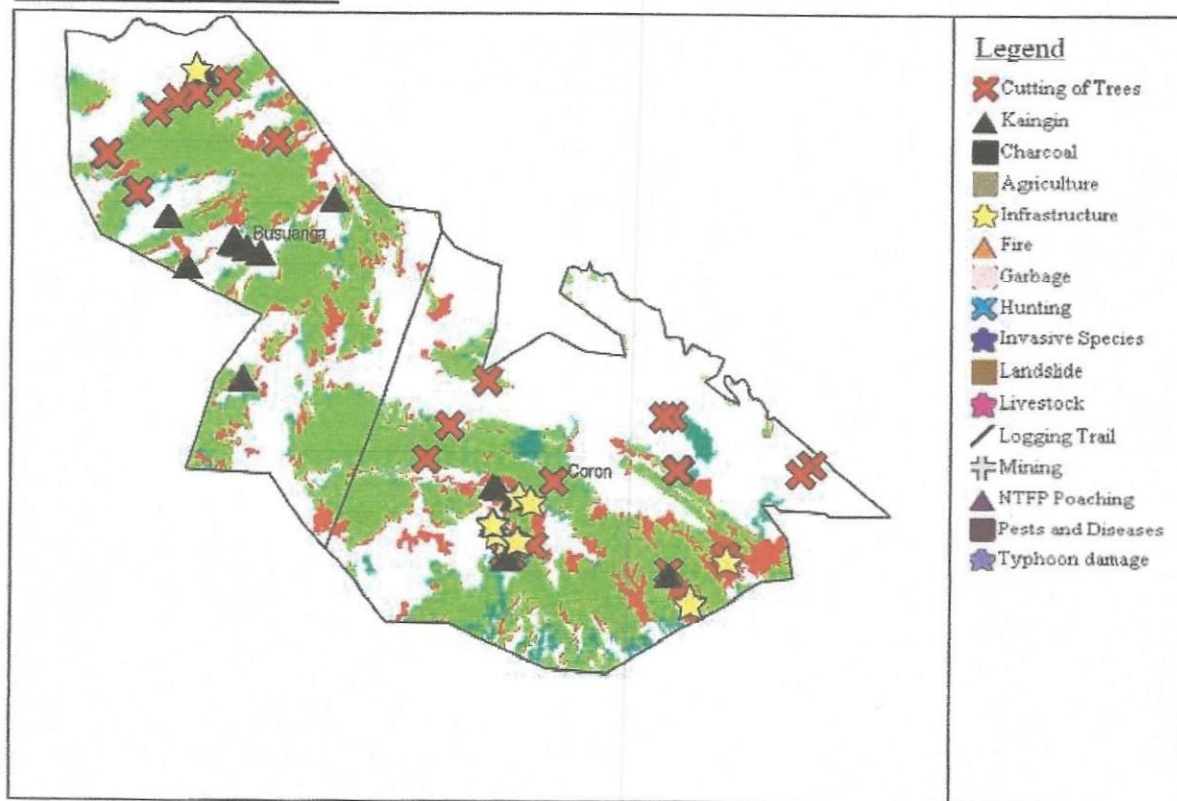
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This report presents information for the implementing units of DENR to effectively plan and carry out actions for addressing observed threats to the forest.

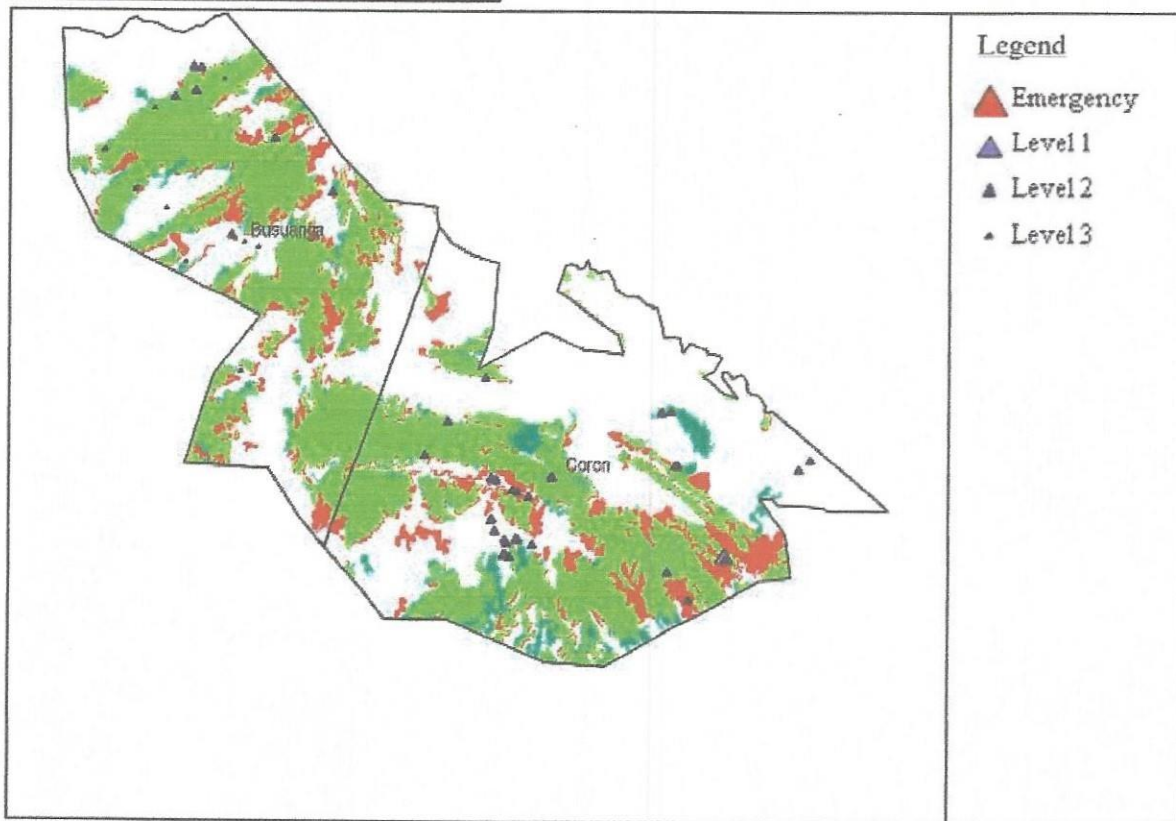
Threats observed and level of response required

Threat	No. of Observations	Emergency - Immediate action required!	Level 1 - Action required within a week	Level 2 - Action required within a month
Cutting of Trees	35	0	1	27
Slash and Burn Farming (Kaingin)	17	0	0	9
Hut or House and Other Infrastructure	12	0	0	12

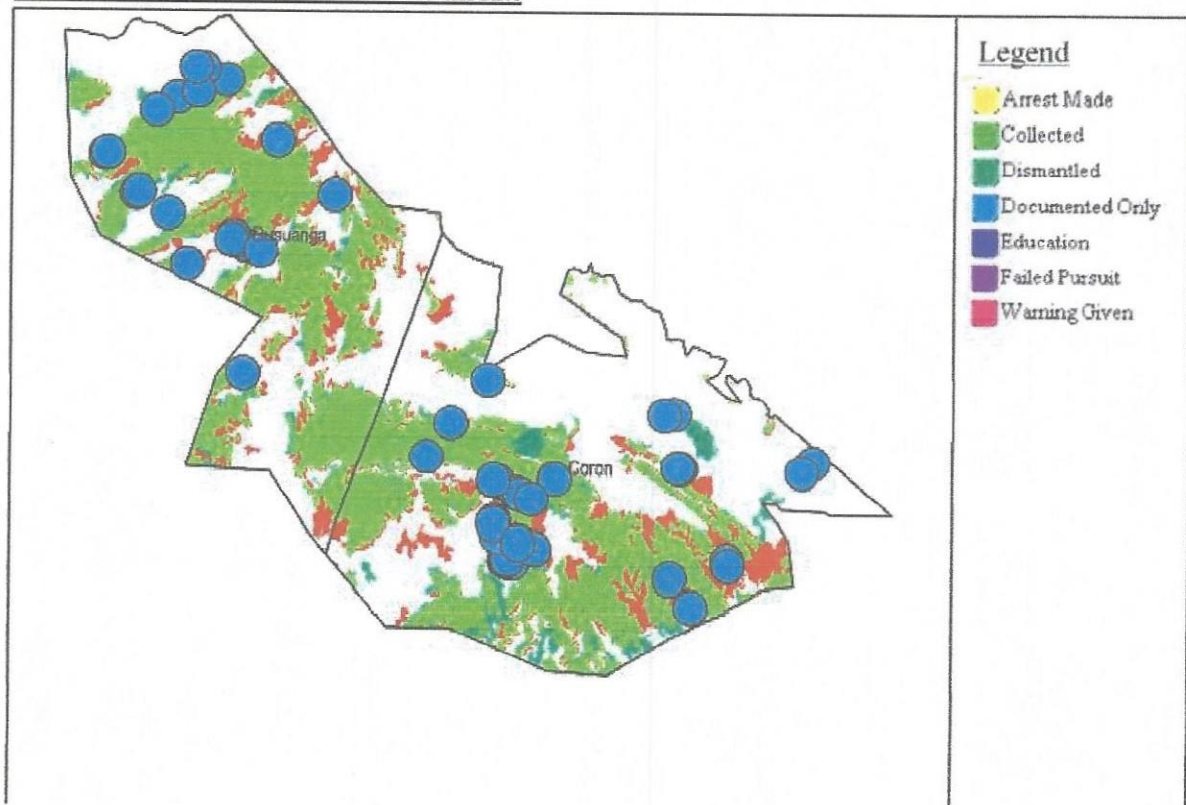
Location of observed threats



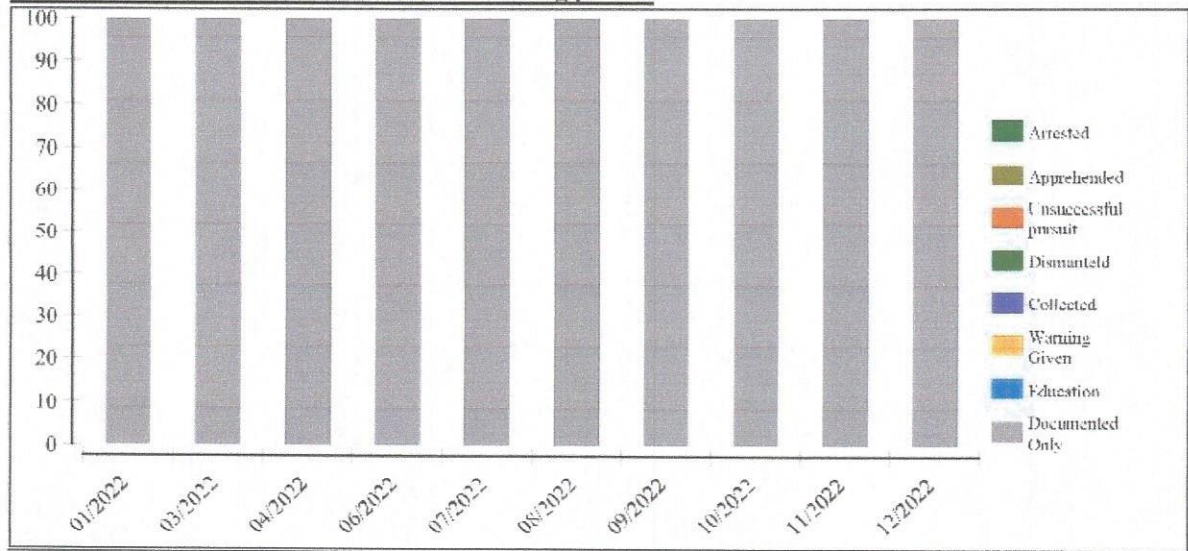
Locations and urgency of responses needed



Locations of actions taken to address threats



Stacked bar chart showing the percentage of cases by outcome from January to December 2022. The y-axis represents the percentage from 0 to 100. The x-axis shows months from 01/2022 to 12/2022. The legend includes: Arrested (dark green), Apprehended (olive), Unsuccessful pursuit (orange), Dismantled (dark green), Collected (blue), Warning Given (yellow), Education (blue), and Documented Only (grey). The 'Documented Only' category is the largest and most consistent across all months.



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