

**Indonesian Rhino Conservation Program – IRCP
Program Konservasi Badak Indonesia - PKBI**



**QUARTERLY ACTIVITY AND PERFORMANCE REPORTS
SUMMARY OF RELEVANT DATA
1999**

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*Bogor, Indonesia
1 July 2000*

Cover picture: *A wild Sumatran rhino in a wallow in Way Kambas National Park. Made by one of the PRU teams.*

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EXECUTIVE SUMMARY

The decline of the Sumatran and Javan rhino has been going on for a long time. The Javan rhino for example was eliminated from Malaysia in the 1930's. The Sumatran rhino PHVA (1993) indicated that the decline of Sumatran rhino was probably 50% during the last decade. The total population of Sumatran rhino in Indonesia is estimated at only 215 – 319 and the species will become extinct in the next decade if there is no appropriate and serious protection and management. The rhino's decline in South East Asia is due to a combination of reduction in habitat and overexploitation, mostly by poaching for the horn.

At this time, poaching pressure continues to be high in Indonesia, hence there is a need for this country to emphasize anti-poaching activities in its Rhino Conservation Program. The rhino is subject to poaching pressure both from hunters with firearms and from trappers who use wire snares and other traps that maim and kill the animals.

The methods employed in poaching prevention are primarily field patrols to search for traps and other signs of poaching, to destroy the traps, and to collect evidence to identify and apprehend the people involved. On the other side, intelligence operations are conducted to assist in the apprehension of poachers and to identify the routes used for the horn trade.

The Indonesian Rhino Conservation Program (IRCP) integrates governmental and non-governmental partners: the Directorate General of Protection and Nature Conservation (PKA), Ministry of Forestry and Plantations, International Rhino Foundation (IRF), World Wide Fund for Nature - Indonesia (WWF-I) and Yayasan Mitra Rhino (YMR).

The program entails a series of approaches that include: wild population protection by intensive patrolling of areas to detect traps and arrest intruders; more intensive surveys and monitoring of the rhino populations throughout the core rhino areas; intelligence operations to assist in the apprehension of poachers and to identify the routes used for the horn trade; and, establishment of a rhino database system using Geographic Information System (GIS) techniques.

The program has achieved its main objective of reducing poaching of rhino, since only two rhino traps were found in one area of operation, though no rhinos were caught. In all the other areas no traps were found. Also the number of other illegal activities encountered in the area of operation has declined, though it is still too high in many areas. The RPUs have increased their field activities throughout the year, though they have not yet fully reached the targets set by the program.

The involvement of a large number of field personnel makes the IRCP program very costly. Therefore it is important to develop a simultaneous plan for sustainable funding of the Rhino Conservation Program.

INTRODUCTION

Objectives

The objective of the cooperation between the Directorate General of Forest Protection and Nature Conservation (Now Directorate General of Protection and Nature Conservation), International Rhino Foundation, World Wide Fund for Nature, Yayasan Mitra Rhino, and Asian Rhino Specialist Group is to contribute to the long-term viable conservation and management of Indonesian rhinos (the Javan rhino – *Rhinoceros sondaicus*, and the Sumatran rhino – *Dicerorhinus sumatrensis*) and their habitats in Java and Sumatra through collaboration and coordination for planning, funding, administration and implementation of Rhino Conservation Programs.

The Indonesian Rhino Conservation Program aims to enhance the capabilities of the Directorate General of Protection and Nature Conservation and associated wildlife agencies to arrest and reverse the decline of rhinoceros due to poacher activity and habitat disturbance toward the national and global goal of recovery of viable populations of rhino species in Indonesia.

Background

A population and Habitat Analysis conducted in November 1993 in conjunction with the IUCN SSC Asian Rhino Specialist Group (AsRSG) and Conservation Breeding Specialist Group (CBSG) revealed a significant decline in the numbers of Sumatran rhino in Indonesia. The estimates that emerged from the new data and more rigorous assessment was 215 – 319. Meanwhile, the previous estimate had been 420 – 875. The GEF project estimated that until June 1998 the population of Sumatran rhino in Kerinci Seblat National Park was 27 – 32, in Bukit Barisan Selatan National Park 28 – 40, and in Way Kambas National Park 15 – 24.

Although the Javan rhino population in Ujung Kulon National Park seems to be holding at about 50 – 60, the threat of poaching still remains. The loss of rhino has become a matter of global concern. In 1994, at least one rhino was poached in Ujung Kulon and a suspect has been identified but was not prosecuted.

Saving the remaining population needs further alternatives. There should be a series of efforts to protect the remaining population by activating rhino patrols and strengthening anti-poaching activities, until poacher activity and habitat destruction is reduced to the point of elimination.

Outputs

The stated outputs of the IRCP are:

*Establishment and operation of at least 15 Rhino Protection Units (RPUs) and Rhino Monitoring and Protection Units (RMPUs) in Sumatra and Java.
More involvement of local people through recruiting into RPU/RMPU personnel.*

The IRCP provides protection from poaching and habitat disturbance for viable nucleus populations of Sumatran and Javan Rhinos through the establishment and operation of Rhino Protection Units (RPUs), and supporting management, coordination and supervisory structures. The IRCP operates 13 RPUs; in and around Kerinci Seblat National Park (TNKS - 3 RPUs), Bukit Barisan Selatan National Park (TNBBS - 6 RPUs), Way Kambas National Park (TNWK - 3 RPUs). In Ujung Kulon

National Park (TNUK) the IRCP established new Rhino Protection Units called Rhino Monitoring and Protection Units (RMPU) and currently operates 3 RMPUs and 2 Coastal Patrol Units.

The units were formed through selective recruitment and training. Each unit consists of 4 or 5 persons, with a Wildlife Ranger (*Jagawana*) leading each team. The other members are recruited from the communities living around the rhino areas.

Progress

Poaching pressure on Sumatran rhino is very high in 3 major protected areas in Sumatra. The RPU team has information from local people (former poachers) that they had killed 2 rhinos in Lempur-Kerinci in 1998 but no further evidence was found. The poacher mostly use traps and traditional guns (*senjata locok*). In Penarik, North Bengkulu, poachers killed one rhino. In Way Kambas the RPU teams found 11 traps including two that had killed a tiger in December 1988 to January 1999. In Bukit Barisan Selatan, more intensive and extensive anti-poaching activities and patrolling did cause a declining in poaching activities in recent years. In fact, it is assumed that poachers are moving their activities into TNKS areas where the RPU anti-poaching activities have decreased.

The activities of RPU/RMPU during surveys and patrols expressed in the number of surveys, the distance walked and the duration of the field activities are tabulated below. The Teams also encountered and reported on many cases of illegal activities in the National Parks and the rhino conservation areas.

Conclusions

In this year the number of field days per month of every unit of RPU has in general been below the target of 20 field days per month per unit. The details for the patrolling activities are provided in the sections GENERAL PERFORMANCE PARAMETERS (p. 10), and RPU PERFORMANCE DATA (p. 13). A summary is provided on page 4. On page 5 the distances walked and the patrol duration is shown in a graph. In all areas there has been a clear increase in field presence throughout the year.

During the surveys and patrols the program encountered many cases of illegal activities in the National Parks and the rhino conservation areas. Gaharu theft is major problem in Way Kambas National Park. It is feared that the people will get more interested in the rhino if there is no more gaharu in Way Kambas. Meanwhile, timber theft and forest conversion into land for agriculture is the major case for destruction in Bukit Barisan Selatan National Park. In Kerinci Seblat National Park, the RPU Teams are often confronted with rattan theft.

A detailed account of the illegal activities encountered is tabulated in the section on ILLEGAL ACTIVITIES ENCOUNTERED (p. 11). A summary is provided on page 4. The total number of illegal activities encountered per quarter is shown in a graph on page 6. Most areas show a decline in illegal activities encountered, indicative of the effectiveness of the patrols. Especially in Ujung Kulon (TNUK) the number of illegal activities has declined sharply immediately after the RMPUs started their field operations in January 1999. In the other areas the RPU have been operating already for 3 or 4 years.

The type and number of rhino signs encountered is tabulated in the section BASIC RHINO POPULATION PARAMETERS (p. 12). On page 4 the RHINO DENSITY INDICATORS table attempts to provide crude indicators of rhino density by relating the number of locations where rhino sign were encountered with the activity of the patrols. This is based on the assumption that the number of sign of rhino encountered will be proportional to the activity (field days, distance walked,

etc) of the RPU's in a certain area. The numbers in the column Density Indicators - rhino sign per unit of RPU activity - are therefore rough indicators of the relative densities of the rhino between the areas.

The Density Indicators for the three areas with Sumatran rhino do not vary much between the areas, but those for Ujung Kulon are all much lower. This is most likely not an indication of a low Javan rhino density, but more likely caused by differences in the methods of calculation of field activities of the RMPUs, as the IRCP standards for reporting had not yet been implemented fully in Ujung Kulon.

Recommendations

It is recommended to increase the intensity of the field activities and to conduct more intensive and extensive surveys and patrols in the core area of the rhino.

Field reports are not always produced in the formats that are prescribed and are often late to arrive at headquarters. More discipline in the reporting from the field teams is required.

The data entry in the IRCP database has made good progress with all 1999 data entered. Currently the older data, including those from the GEF period are entered. Data analysis needs to be further studied and appropriate models for evaluation and extraction need to be developed.

SUMMARY OF FIELD ACTIVITY AND RHINO DATA - 1999

GENERAL PERFORMANCE PARAMETERS

Working Area	Number of Surveys	Distance walked (Km)	Duration (hours)
Kerinci Seblat NP	58	2,301	3,231
Bukit Barisan Selatan NP	113	4,376	5,188
Way Kambas NP	92	3,081	3,364
Ujung Kulon NP	65	4,319	3,781
TOTAL all areas	328	14,077	15,564

ILLEGAL ACTIVITIES ENCOUNTERED

Working Area	Gaharu* Theft	Forest Encroachment	Illegal Hunting	
			Rhino/Trap	Non Rhino
Kerinci Seblat NP	7	34	2	3
Bukit Barisan Selatan NP	None	83	None	4
Way Kambas NP	16	37	None	7
Ujung Kulon NP	None	37	None	100
TOTAL all areas	24	191	2	114

* Gaharu (a component for incense) theft is listed separately, because it is a major threat in any forest in Indonesia

BASIC RHINO POPULATION PARAMETERS

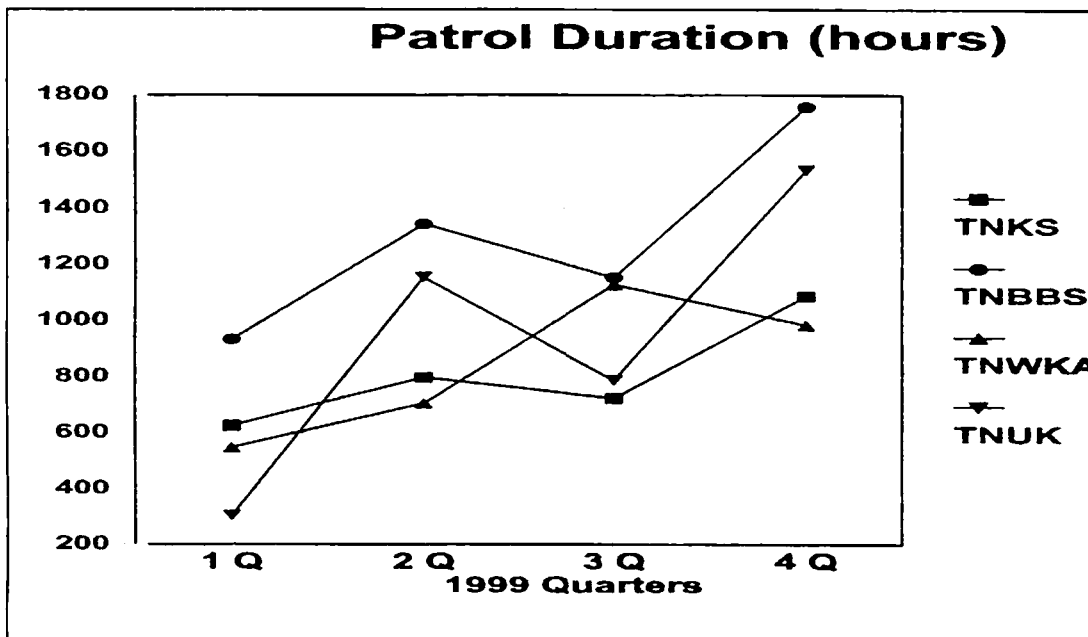
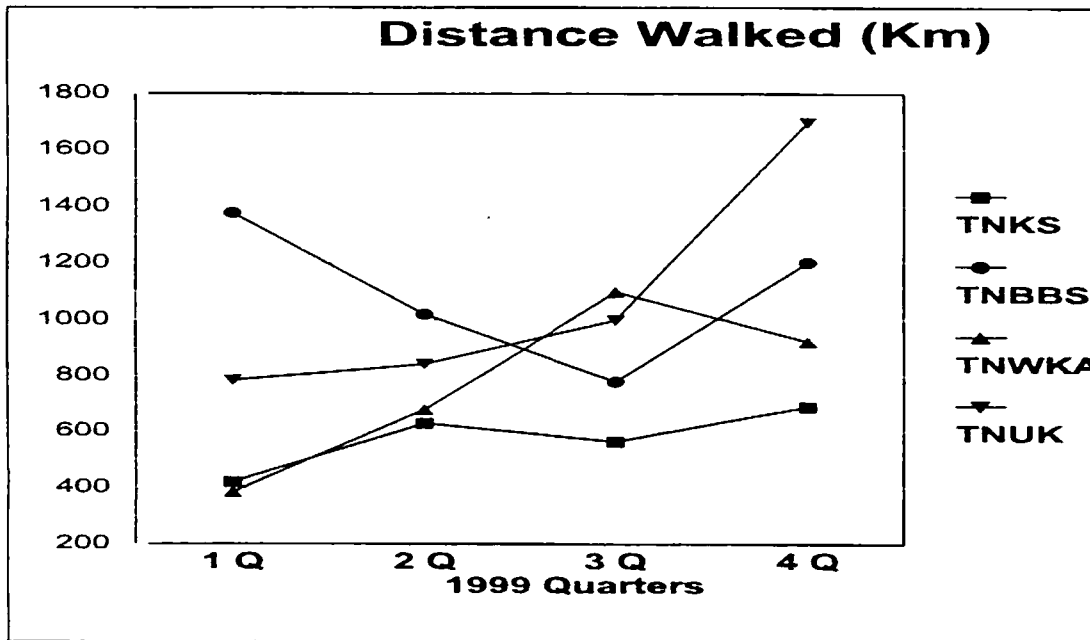
Working Area	Footprint	Wallow	Feces	Other signs*	Direct Sighting
Kerinci Seblat NP	403	29	17	26	6
Bukit Barisan Selatan NP	42	32	12	59	None
Way Kambas NP	166	18	26	39	None
Ujung Kulon NP	166	8	21	5	2
TOTAL all areas	777	87	76	129	8

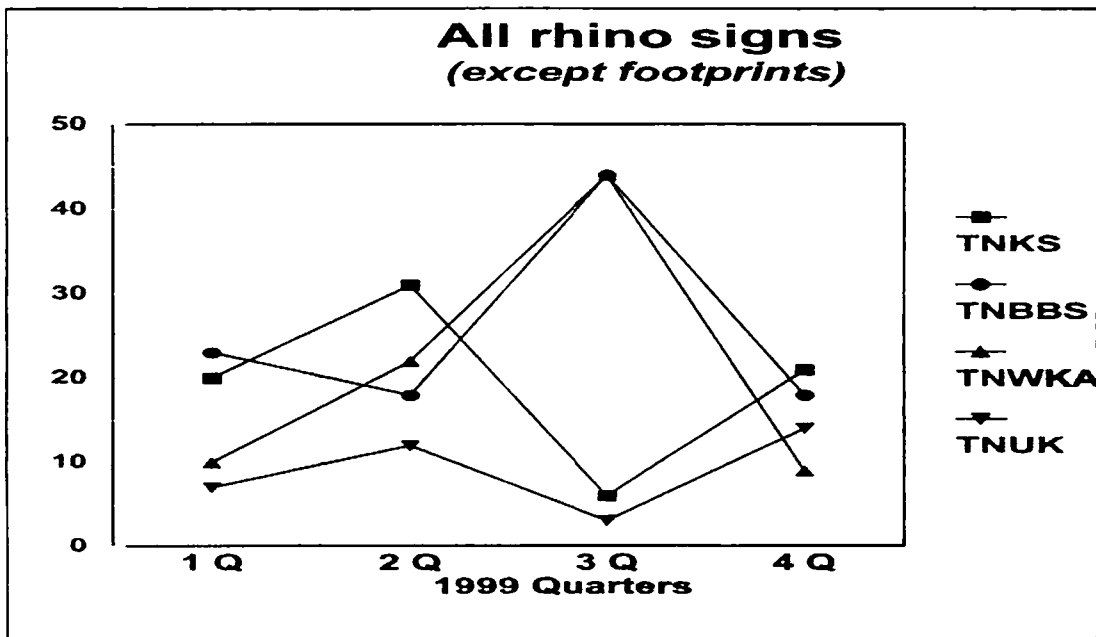
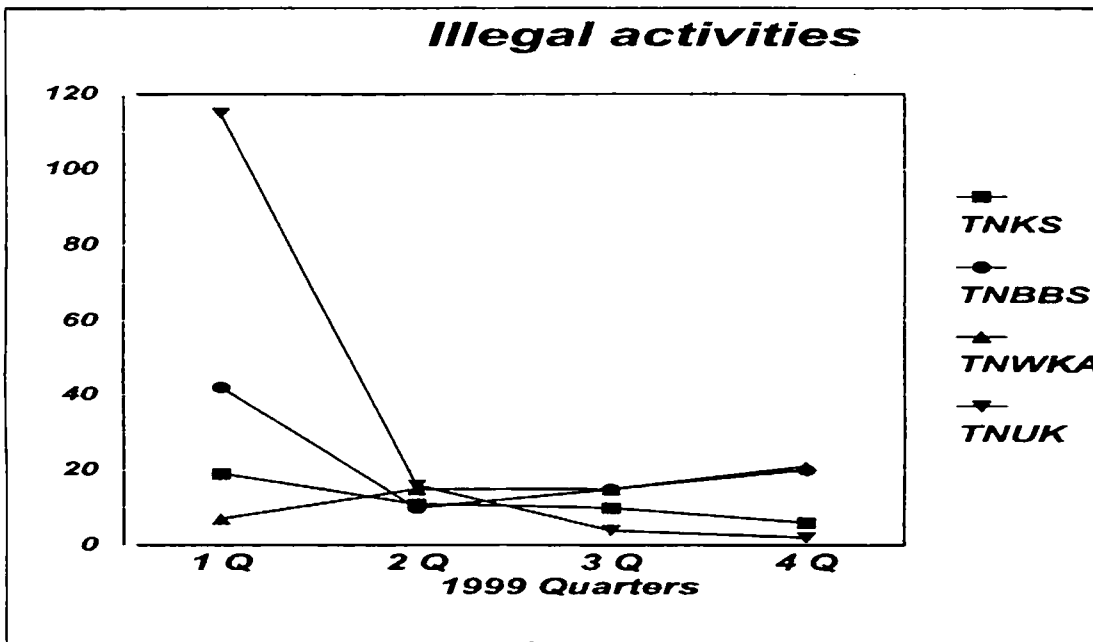
* Includes urine, scratches, rubs,

RHINO DENSITY INDICATORS

Working Area	Rhino	RPU Field Presence			Density Indicators		
	A Number of locations*	B Field days**	C Distance walked	D Duration (hours)	A/B Rhinos/ 100 days	A/C Rhinos/ 1000 km	A/D Rhinos/ 1000 hours
Kerinci Seblat NP	35	473	2,301	3,231	7.4	15.2	10.8
Bukit Barisan Selatan NP	64	708	4,376	5,188	9.0	14.6	12.3
Way Kambas NP	46	496	3,081	3,364	9.3	14.9	13.7
Ujung Kulon NP	32	629	4,319	3,781	5.1	7.4	8.5

* The number of distinct locations where sign of rhino were found. ** Total number of RPU group field days.





(Footprints are not included, because the number provided in the tables is the number of individual footprints and not the number of separate tracks.)

QUARTERLY DATA

GENERAL PERFORMANCE PARAMETERS**FIRST QUARTER****(1 January - 31 March 1999)**

Working Area	Number of Surveys	Distance walked (Km)	Duration (hours)
Kerinci Seblat NP	10	420	626
Bukit Barisan Selatan NP	26	1378	933
Way Kambas NP	12	384	548
Ujung Kulon NP	9	784	304

SECOND QUARTER**(1 April - 30 June 1999)**

Working Area	Number of Surveys	Distance walked (Km)	Duration (hours)
Kerinci Seblat NP	16	630	797
Bukit Barisan Selatan NP	32	1020	1344
Way Kambas NP	22	679	704
Ujung Kulon NP	10	843	1155

THIRD QUARTER**(1 July - 30 September 1999)**

Working Area	Number of Surveys	Distance walked (Km)	Duration (hours)
Kerinci Seblat NP	14	563	722
Bukit Barisan Selatan NP	22	778	1154
Way Kambas NP	28	1096	1128
Ujung Kulon NP	8	996	787

FOURTH QUARTER**(1 October - 31 December 1999)**

Working Area	Number of Surveys	Distance walked (Km)	Duration (hours)
Kerinci Seblat NP	18	688	1087
Bukit Barisan Selatan NP	33	1200	1757
Way Kambas NP	30	922	984
Ujung Kulon NP	38	1697	1535

ILLEGAL ACTIVITIES ENCOUNTERED**FIRST QUARTER****(1 January - 31 March 1999)**

Working Area	Gaharu* Theft	Forest Encroachment	Illegal Hunting	
			Rhino/Trap	Non Rhino
Kerinci Seblat NP	1	17	1	None
Bukit Barisan Selatan NP	None	40	None	2
Way Kambas NP	None	7	None	None
Ujung Kulon NP	None	28	None	87

SECOND QUARTER**(1 April - 30 June 1999)**

Working Area	Gaharu* Theft	Forest Encroachment	Illegal Hunting	
			Rhino/Trap	Non Rhino
Kerinci Seblat NP	4	3	1	3
Bukit Barisan Selatan NP	None	9	None	1
Way Kambas NP	4	10	None	3
Ujung Kulon NP	None	3	None	13

THIRD QUARTER**(1 July - 30 September 1999)**

Working Area	Gaharu* Theft	Forest Encroachment	Illegal Hunting	
			Rhino/Trap	Non Rhino
Kerinci Seblat NP	2	8	None	None
Bukit Barisan Selatan NP	None	15	None	None
Way Kambas NP	4	9	None	2
Ujung Kulon NP	None	4	None	None

FOURTH QUARTER**(1 October - 31 December 1999)**

Working Area	Gaharu* Theft	Forest Encroachment	Illegal Hunting	
			Rhino/Trap	Non Rhino
Kerinci Seblat NP	None	6	None	None
Bukit Barisan Selatan NP	None	19	None	1
Way Kambas NP	8	11	None	2
Ujung Kulon NP	None	2	None	None

* Gaharu (a component for incense) theft is listed separately, because it is a major threat in any forest in Indonesia

BASIC RHINO POPULATION PARAMETERS**FIRST QUARTER****(1 January - 31 March 1999)**

Working Area	Footprint	Wallow	Feces	Other signs*	Direct Sighting
Bukit Barisan Selatan NP	129	9	2	9	None
Kerinci Seblat NP	5	8	3	12	None
Way Kambas NP	13	None	5	5	None
Ujung Kulon NP	30	3	3	1	None

SECOND QUARTER**(1 April - 30 June 1999)**

Working Area	Footprint	Wallow	Feces	Other signs*	Direct Sighting
Bukit Barisan Selatan NP	148	11	6	10	4
Kerinci Seblat NP	11	7	2	9	None
Way Kambas NP	63	4	6	12	None
Ujung Kulon NP	30	2	8	2	None

THIRD QUARTER**(1 July - 30 September 1999)**

Working Area	Footprint	Wallow	Feces	Other signs*	Direct Sighting
Bukit Barisan Selatan NP	46	3	3	None	None
Kerinci Seblat NP	8	8	1	35	None
Way Kambas NP	76	12	13	19	None
Ujung Kulon NP	12	1	2	None	None

FOURTH QUARTER**(1 October - 31 December 1999)**

Working Area	Footprint	Wallow	Feces	Other signs*	Direct Sighting
Bukit Barisan Selatan NP	80	6	6	7	2
Kerinci Seblat NP	18	9	6	3	None
Way Kambas NP	14	2	2	3	None
Ujung Kulon NP	94	2	8	2	2

* Includes urine, scratches, rubs,

1

RPU PERFORMANCE DATA

FIRST QUARTER

(1 January - 31 March 1999)

Area	Time of Survey/Patrol	Unit	Number of Personnel*	Days	Total Field Days**	Monthly Average Field Days	
						Unit	Person
TNKS							
	07 – 14 January	I	8	8	64		
	07 – 11 January	II	3	5	15		
	08 – 12 January	III	4	5	20		
	05 – 13 February	I	8	9	72		
	05 – 13 February	III	5	9	45		
	22 February – 03 March	I	4	10	40		
	22 February – 01 March	II	4	8	32		
	10 – 17 March	I	4	8	32		
	10 – 20 March	II	4	11	44		
	10 – 23 March	III	4	14	56		
Total Days and Summary of Total Field days			13##	87	420	9.67***	10.77****
TNBBS							
	05 – 09 January	IV	4	5	20		
	05 – 08 January	VI	5	4	20		
	05 – 09 January	VIII	4	5	20		
	05 – 12 January	IX	4	5	20		
	05 – 09 January	V	4	5	20		
	08 – 13 February	IV	4	6	24		
	08 – 13 February	VI	4	6	24		
	07 – 13 February	VIII	4	7	28		
	22 – 26 February	IX	4	5	20		
	22 – 27 February	VII	4	5	20		
	22 – 27 February	VIII	4	5	20		
	23 – 28 February	V	3	6	18		
	10 – 15 March	IX	4	6	24		
	10 – 20 March	VIII	8	11	88		
	21 – 26 March	IX	4	6	24		
	21 – 26 March	VIII	8	6	48		
	22 – 26 March	V	3	5	15		
	23 – 26 March	IV	6	4	24		
Total Days and Summary of Total Field days			21	106	493	5.89	7.825
TNWK							
	05 – 10 January	II	5	6	30		
	08 – 13 February	I	4	6	24		
	09 – 13 February	II	4	5	20		
	25 February – 01 March	I	4	5	20		
	25 February – 02 March	II	3	6	18		
	25 February – 02 March	III	4	6	24		
	05 – 12 March	I	4	8	32		
	05 – 12 March	II	5	8	40		
	10 – 18 March	III	4	9	36		
	17 – 24 March	I	4	8	32		
	17 – 24 March	II	4	8	32		
	22 – 27 March	III	4	6	24		
Total Days and Summary of Total Field days			11	81	332	9	8.51

Area	Time of Survey/Patrol	Unit	Number of Personnel*	Days	Total Field Days**	Monthly Average Field Days	
						Unit	Person
TNUK							
	04 – 30 January	I	5	27	135		
	02 – 30 January	II	5	29	145		
	02 – 30 January	III	5	29	145		
	04 – 19 February	III	5	16	80		
	06 – 24 February	II	5	19	95		
	12 – 20 February	I	5	9	45		
	02 – 24 March	III	5	23	115		
	02 – 24 March	II	5	23	115		
	03 – 14 March	I	5	12	60		
Total Days and Summary of Total Field days			15	187	935	20.77	20.77

Notes:

* Number of personnel in surveys/patrols.

** Total Field Days = Number of Personnel x Days.

*** Monthly Average Field Days per Unit = Total Days/Number of Unit/3 (Months)

**** Monthly Average Field Days per Personnel = Total Field Days/Number of Personnel/3 (Months)

The number personnel in surveys/patrols for these 3 Months.

2

RPU PERFORMANCE DATA

SECOND QUARTER

(1 April - 30 June 1999)

Area	Time of Survey/Patrol	Unit	Number of Personnel*	Days	Total Field Days**	Monthly Average Field Days	
						Unit	Person
TNKS							
	01 - 09 April	I	4	9	36		
	04 - 09 April	II	4	6	24		
	01 - 08 April	III	4	8	32		
	22 - 29 April	I	4	8	32		
	22 - 26 April	II	4	5	20		
	23 - 30 April	III	3	9	27		
	07 - 16 May	I	3	10	30		
	06 - 13 May	II	4	8	32		
	07 - 14 May	III	3	8	24		
	28 May - 06 June	I	3	10	30		
	28 May - 04 June	II	4	8	32		
	28 May - 05 June	III	4	9	36		
	11 - 18 June	II	4	8	32		
	12 - 20 June	III	3	9	27		
	12 - 20 June	I	3	9	27		
Total Days and Summary of Total Field days			14###	124	441	13.78***	10.5****
TNBBS							
	06 - 13 April	IV	4	8	32		
	06 - 07 April	V	3	2	6		
	10 - 15 April	V	3	6	18		
	07 - 15 April	VI	4	9	36		
	06 - 12 April	VII	3	7	21		
	08 - 14 April	IX	4	7	28		
	22 - 27 April	VII	4	6	24		
	24 - 28 April	IX	4	5	20		
	20 - 29 April	VIII	4	10	40		
	23 - 29 April	VI & VIII	4	7	28		
	06 - 13 May	IX	3	8	24		
	07 - 13 May	VIII	4	7	28		
	07 - 10 May	IV	4	4	16		
	05 - 12 May	VII	4	8	32		
	12 - 15 May	IV	2	4	8		
	12 - 15 May	VI	4	4	16		
	12 - 15 May	V	4	4	16		
	17 - 21 May	IX	3	5	15		
	17 - 19 May	VIII	4	3	12		
	19 - 22 May	VI	3	4	12		
	19 - 23 May	IV	3	5	15		
	19 - 23 May	VIII	4	5	20		
	19 - 22 May	VII	3	4	12		
	11 - 17 June	V	3	7	21		
	10 - 15 June	IV	4	6	24		
	11 - 18 June	VI	4	8	32		
	10 - 18 June	VII	4	9	36		
	12 - 19 June	VIII	4	8	32		
	12 - 18 June	IX	3	7	21		

	22 – 28 June	VIII	4	5	20		
	23 – 28 June	IX	3	6	18		
	23 – 25 June	IV,V,VI,V II	13	3	39		
Total Days and Summary of Total Field days			26	191	722	10.61	9.26
TNWK							
	06 – 10 April	I	5	5	25		
	06 – 09 April	II	4	4	16		
	06 – 10 April	III	4	5	20		
	19 – 24 April	I	3	6	18		
	19 – 25 April	III	3	7	21		
	28 – 29 April	II	5	2	10		
	19 – 24 April	II	3	6	18		
	03 – 07 May	II	5	5	25		
	03 – 07 May	III	5	5	25		
	14 – 16 May	III	4	3	12		
	14 – 18 May	II	5	5	25		
	21 - 22 May	II	10	2	20		
	19 – 25 May	III	4	7	28		
	23 – 26 May	II	5	4	20		
	30 May – 01 June	I	5	3	15		
	30 May – 01 June	II	5	3	15		
	10 - 15 June	II	4	6	24		
	19 – 22 June	III	4	4	16		
	19 – 22 June	I	4	4	16		
	10 – 15 June	III	4	6	24		
	10 – 15 June	I	4	6	24		
	19 – 23 June	II	4	5	20		
Total Days and Summary of Total Field days			14	108	437	12	10.40
TNUK							
	11 – 26 April	III	5	16	80		
	11 – 18 April	I	5	8	40		
	11 – 24 April	II	5	14	70		
	04 – 24 May	I	4	21	84		
	04 – 24 May	III	4	21	84		
	04 – 24 May	II	5	21	84		
	02 – 28 June	III	5	27	135		
	03 – 22 June	II	5	20	100		
	04 – 24 June	I	5	21	105		
Total Days and Summary of Total Field days			18	169	782	18.78	14.48

Notes:

* Number of personnel in surveys/patrols.

** Total Field Days = Number of Personnel x Days.

*** Monthly Average Field Days per Unit = Total Days/Number of Unit/3 (Months)

**** Monthly Average Field Days per Personnel = Total Field Days/Number of Personnel/3 (Months)

The number personnel in surveys/patrols for these 3 Months.

3

RPU PERFORMANCE DATA

THIRD QUARTER

(1 July - 30 September 1999)

Area	Time of Survey/Patrol	Unit	Number of Personnel*	Days	Total Field Days**	Monthly Average Field Days	
						Unit	Person
TNKS							
	30 June - 09 July	III	4	10	40		
	01 - 06 July	II	3	6	18		
	01 - 09 July	I	3	9	27		
	20 - 28 July	II	3	8	24		
	20 - 28 July	I	3	8	24		
	20 - 29 July	I	3	9	27		
	07 - 16 August	III	4	10	40		
	07 - 14 August	I	3	8	24		
	09 - 15 August	II	3	7	21		
	23 - 31 August	III	4	9	36		
	23 - 28 August	II	2	6	12		
	06 - 12 Sept.	I	3	7	21		
	06 - 12 Sept.	II	3	7	21		
	20 - 27 Sept.	I	4	8	32		
	20 - 29 Sept.	II	4	10	40		
Total Days and Summary of Total Field days			14##	122	407	13.55***	9.69****
TNBBS							
	14 - 21 July	IV	4	8	32		
	14 - 22 July	VI	4	9	36		
	14 - 17 July	VII	3	4	12		
	14 - 20 July	IX	4	7	28		
	14 - 20 July	V	4	7	28		
	27 - 31 July	V	5	5	25		
	28 - 31 July	VI	6	4	24		
	28 - 31 July	VII	4	4	16		
	28 - 31 July	IV	4	4	16		
	10 - 16 August	IV	4	7	28		
	21 - 28 August	VII	4	8	32		
	21 - 27 August	V	4	7	28		
	21 - 27 August	IX	5	7	35		
	21 - 28 August	VI	4	8	32		
	08 - 17 Sept.	VII	4	10	40		
	08 - 17 Sept.	IX	4	10	40		
	08 - 17 Sept.	V	4	10	40		
	17 - 25 Sept.	VI	7	9	63		
	22 - 28 Sept.	IX	5	7	35		
	22 - 29 Sept.	IV	3	8	24		
	22 - 28 Sept.	VII	4	7	28		
	24 - 27 Sept.	VI	8	4	32		
Total Days and Summary of Total Field days			26	154	674	10.26	8.64
TNWK							
	04 - 10 July	II	5	7	35		
	04 - 09 July	I	6	6	36		
	13 - 18 July	III	5	6	30		
	13 - 18 July	I	5	6	30		
	19 - 21 July	I	3	3	9		

24 – 29 July	II	4	6	24		
24 – 29 July	III	4	6	24		
24 – 29 July	I	3	6	18		
04 – 09 August	III	4	6	24		
04 – 09 August	I	4	6	24		
04 – 10 August	II	4	7	28		
13 – 15 August	I	3	3	9		
13 – 16 August	II	4	4	16		
13 – 17 August	III	5	5	25		
20 – 25 August	I	4	6	24		
20 – 24 August	III	3	5	15		
20 – 25 August	II	4	6	24		
04 – 10 Sept.	IV	4	7	28		
05 – 09 Sept.	III	4	5	20		
05 – 09 Sept.	II	3	5	15		
05 – 10 Sept.	I	4	6	24		
14 – 18 Sept.	I	4	5	20		
14 – 18 Sept.	II	3	5	15		
14 – 19 Sept.	IV	3	6	18		
20 – 28 Sept.	I	3	9	27		
23 – 27 Sept.	III	4	5	20		
23 – 29 Sept.	IV	4	7	28		
23 – 27 Sept.	II	4	5	20		
Total Days and Summary of Total Field days		18	159	689	13.25	12.76
TNUK						
09 – 24 July	III	5	16	90		
09 – 23 July	II	5	15	75		
31 July – 18 August	II	5	19	95		
01 – 18 August	I	5	18	90		
09 – 20 Sept.	III	5	12	60		
09 – 19 Sept.	II	5	11	55		
11 – 18 Sept.	I	5	8	40		
25 – 27 Sept.	I	3	3	9		
Total Days and Summary of Total Field days		18	102	514	11.33	9.52

Notes:

* Number of personnel in surveys/patrols.

** Total Field Days = Number of Personnel x Days.

*** Monthly Average Field Days per Unit = Total Days/Number of Unit/3 (Months)

**** Monthly Average Field Days per Personnel = Total Field Days/Number of Personnel/3 (Months)

The number personnel in surveys/patrols for these 3 Months.

4

RPU PERFORMANCE DATA

FOURTH QUARTER

(1 October - 31 December 1999)

Area	Time of Survey/Patrol	Unit	Number of Personnel*	Days	Total Field Days**	Monthly Average Field Days	
						Unit	Person
TNKS							
	06 – 10 Oct.	III	4	5	20		
	06 – 12 Oct.	II	4	7	28		
	06 – 12 Oct.	I	4	7	28		
	19 – 28 Oct.	III	4	10	40		
	19 – 27 Oct.	II	4	9	36		
	19 – 27 Oct.	I	4	9	36		
	09 – 17 Nov.	III	3	9	27		
	09 – 17 Nov.	II	3	9	27		
	09 – 13 Nov.	I	4	5	20		
	23 – 30 Nov.	III	4	8	32		
	23 – 29 Nov.	II	4	7	28		
	23 Nov. – 01 Dec..	I	4	9	36		
	11 – 18 Dec.	III	4	8	32		
	10 – 17 Dec.	II	3	8	24		
	10 – 18 Dec.	I	4	9	36		
	23 – 30 Dec.	III	3	8	24		
	26 – 29 Dec.	II	3	4	12		
	23 – 31 Dec.	I	3	9	27		
Total Days and Summary of Total Field days			14##	140	513	15.55***	12.21****
TNBBS							
	06 – 13 Oct.	V	5	8	40		
	06 – 14 Oct.	VII	4	9	36		
	07 – 12 Oct.	IX	4	6	24		
	07 – 17 Oct.	VIII	4	11	44		
	11 – 19 Oct.	IV	4	9	36		
	12 – 19 Oct.	VI	4	8	32		
	20 – 28 Oct.	IX	4	9	36		
	21 – 28 Oct.	VIII	4	8	32		
	25 – 30 Oct.	VI	5	6	30		
	25 – 30 Oct.	V	4	6	24		
	25 – 28 Oct.	IV	4	4	16		
	27 – 31 Oct.	VII	3	5	15		
	06 – 12 Nov.	IX	4	7	28		
	07 – 11 Nov.	VII	4	5	20		
	08 – 15 Nov.	IX	4	8	32		
	09 – 18 Nov.	IV	4	10	40		
	22 – 29 Nov.	IX	4	8	32		
	17 – 24 Nov.	VI	9	8	72		
	21 – 27 Nov.	IV	4	7	28		
	11 – 18 Nov.	VIII	4	8	32		
	22 – 28 Nov.	VIII	4	7	28		
	03 – 10 Dec.	VII	4	8	32		
	05 – 12 Dec.	IV	3	8	24		
	05 – 12 Dec.	VI	5	8	40		
	12 – 22 Dec.	IX	4	11	44		
	13 – 20 Dec.	VII	4	8	32		

	16 – 22 Dec.	IV	3	7	21		
	18 – 27 Dec.	VI	5	10	50		
	06 – 13 Dec.	IX	4	8	32		
	10 – 20 Dec.	VIII	4	11	44		
	22 – 30 Dec.	VIII	5	9	45		
	25 – 30 Dec.	VII	4	6	24		
	27 Dec. 1999 – 01 Jan 2000	V	3	6	18		
Total Days and Summary of Total Field days			25	257	1083	14.28	14.44
TNWK							
	05 – 09 Oct.	I	4	5	20		
	05 – 09 Oct.	II	4	5	20		
	05 – 10 Oct.	III	3	6	18		
	05 – 10 Oct.	IV	4	6	24		
	14 – 19 Oct.	I	4	6	24		
	14 – 19 Oct.	II	4	6	24		
	15 – 20 Oct.	III	3	6	18		
	14 – 20 Oct.	IV	4	7	28		
	25 – 28 Oct.	I	5	4	20		
	25 – 30 Oct.	II	4	6	24		
	25 – 31 Oct.	IV	5	7	35		
	04 – 06 Nov.	I	3	3	9		
	05 – 09 Nov.	II	5	5	25		
	08 – 12 Nov.	I	6	5	30		
	18 – 22 Nov.	I	4	5	20		
	18 – 22 Nov.	II	5	5	25		
	18 – 25 Nov.	III	5	8	40		
	27 – 29 Nov.	I	11	3	33		
	25 – 27 Nov.	II	4	3	12		
	30 Nov – 04 Dec.	II	7	5	35		
	30 Nov – 05 Dec.	IV	8	6	48		
	11 – 14 Dec.	IV	4	4	16		
	11 – 16 Dec.	I	4	6	24		
	11 – 16 Dec.	II	4	6	24		
	11 – 16 Dec.	III	4	6	24		
	16 – 17 Dec.	IV	3	2	6		
	22 – 24 Dec.	II	4	3	12		
	22 – 25 Dec.	I	8	4	32		
	25 – 25 Dec.	II	11	1	11		
	22 – 25 Dec.	III	4	4	16		
Total Days and Summary of Total Field days			18	148	697	12.33	12.91
TNUK							
	01 – 02 Oct.	III	4	2	8		
	02 – 06 Oct.	II	4	5	20		
	04 – 05 Oct.	I	3	2	6		
	04 – 05 Oct.	III	4	2	8		
	06 – 07 Oct.	I	4	2	8		
	06 – 07 Oct.	III	4	2	8		
	07 Oct.	II	4	1	4		
	08 – 12 Oct.	III	4	5	20		
	09 – 13 Oct.	II	4	5	20		
	09 – 12 Oct.	I	4	4	16		
	13 – 15 Oct.	III	4	3	12		
	14 Oct.	I	4	1	4		
	15 Oct.	I	2	1	2		
	16 – 19 Oct.	II	4	4	16		
	19 – 20 Oct.	III	3	2	6		
	21 – 24 Oct.	III	4	4	16		
	21 – 24 Oct.	II	4	4	16		
	21 – 24 Oct.	I	3	4	12		
	01 – 02 Nov.	III	4	2	8		

03 – 05 Nov.	III	4	3	12		
06 – 12 Nov.	III	3	7	21		
06 – 15 Nov.	III	2	10	20		
06 – 12 Nov.	I	4	7	28		
06 – 12 Nov.	II	4	7	28		
16 – 20 Nov.	I	4	5	20		
19 – 24 Nov.	II	4	6	24		
20 Nov	III	3	1	3		
22 – 25 Nov.	III	4	4	16		
29 Nov – 05 Dec.	III	4	7	28		
06 – 14 Dec.	III	4	9	36		
11 – 13 Dec.	II	4	3	12		
14 – 17 Dec.	II	4	4	16		
15 – 19 Dec.	III	4	5	20		
15 Dec. – 04 Jan 2000	I	4	21	84		
17 – 21 Dec.	II	4	5	20		
21 – 31 Dec.	III	4	11	44		
22 – 26 Dec.	II	4	5	20		
26 – 30 Dec.	II	4	5	20		
Total Days and Summary of Total Field days		18	171	682	19	12.63

Notes:

* Number of personnel in surveys/patrols.

** Total Field Days = Number of Personnel x Days.

*** Monthly Average Field Days per Unit = Total Days/Number of Unit/3 (Months)

**** Monthly Average Field Days per Personnel = Total Field Days/Number of Personnel/3 (Months)

The number personnel in surveys/patrols for these 3 Months.

1

PATROL DATA

FIRST QUARTER

(1 January - 31 March 1999)

Unit	Location	Date of Survey	Length (Km)*	Duration (Hours)**	Remarks
* This is the distance of the route as measured from a 1:50.000 map excluding the distance from camp to the forest.					
** The number of hours actively spent surveying excluding rest, meals and time at camp.					
Kerinci Seblat National Park (TNKS)					
I	Air Teramang, Air Ikan, Air Ipuh Panjang	07-14 January	48	53	No sign of rhino Tiger footprint and faeces Ex human activities
II	G. Solang, A. Berau, Sako Kidul, Sako Kanan	07-11 January	29	37	No sign of rhino Ex human activities Tracks of tiger, elephant, tapir
III	Air Retak, Air Ikan, Air Ipuh Panjang	08-12 January	28	35	The team found food and scratch of rhino in ex concession of HPH Bina Samakhta Tiger footprint
I	A. Ipuh Ilau, A. Ipuh Panjang, A. Ikan	05-13 February	55	60	No sign of rhino Ex human activities
III	SP. 8 A. Rami, A. Tembulun, A. Seblat Merah	22 February- 01 March	48	48	Sign of rhino in form of footprint, wallow and scrape. In fact, this rhino tracks within in logging areas of HPH PT. Maju Jaya Timber RKT. Tiger print (no left feet)
III	A. Ipuh Ilau, A. Panyukan, A. Ipuh Napal, A. Ipuh Tengah	05-13 February	36	70	Rhino prints, scrapes, and wallow 2 rhino traps around A. Ipuh Tengah Tiger prints
I	SP 8 Ipuh Panjang, HPH Bina Samakhta area	22 Februar- 03 March	42	62	No sign of rhino 1 tiger trap tiger print
III	Rantau Kemas (Bangko), A. Teramang, Bukit Madu (North Bengkulu)	12-23 March	42	14	No sign of rhino Elephant tracks
I	A. Gambir Rawas, A. Inum, A. Bantal Kiri, A. Bantal Kanan	10-20 March	42	-	Fresh rhino sign in form of wallow, scrapes, and faeces. The team will survey again this areas to determine number of rhino exist
II	Rantau Kemas (Bangko/Jambi), A. Berau, Gn. Solang	10-20 March	52	-	Wallow, Scrape and footprint of rhino
Bukit Barisan Selatan National Park (TNBBS)					
IV	Mendati, W. Pampangan	05-09 January	16	1	No sign of rhino Apprehend 2 suspects
V	Pemerihan, Cawang Arok, W. Canguk, Siwalanak	05-09 January	17	2	Wallow and print of rhino Ex human activities Tracks of tiger, elephant, deer
VI	Km 24, W. Bambang, Kubunicik.	05-08 January	12	1	Found wallow, scrape and food of rhino Ex human activities
VIII	W. Ngambur, W. marang,	05-09 January	13	1	No sign of rhino

Unit	Location	Date of Survey	Length (Km)*	Duration (Hours)**	Remarks
	W. mendati, Panji wayang				Ex human activities
IX	Campang Ngambur, Way Pampangan, Way mendati, Way Rilau	05-12 January	21	1	No Sign of rhino. Apprehend 2 suspects The team found 2 wildlife traps
IV	Karang Berak, Subur Aman	08-13 February	19	1	No sign of rhino Land of agriculture Ex human activities
VI	Penengahan, Sugiwaras, W. nenok, W. Paya, W. Samang, W. Batu, Kali Cina	08-13 February	1	37	No sign of rhino Traps for deer and bird
VIII	INHUTANI, Way baru, Way Pintau	07-13 February	42	2	A lot of sign of rhino (prints), still fresh and location within concession areas of INHUTANI
IX	INHUTANI, Way Bara, Way Pintau	08-12 February	34	1	Around in W. Bara and W. Pintau found rhinos print and faeces
V	Tampang, W. Blambangan, W. belimbing	23-28 February	24	2	Sign of rhino (print) No sign of human activities The team found an elephant corpse
VII	Sumber Rejo, W. Canguk, Cawang Arok, W. Pemerihan	23-27 February	17	2	Sign of rhino (print, wallow, rub) A lot of other wildlife tracks (elephant, tiger, deer etc)
IX	Way Telmak, Campang Ngambar, Way Ngambar	22-26 February	30	1	No sign of rhino Ex human activities Indication of illegal poaching
VIII	Way Telmak, Way Marang, Way Ngambur	22-27 February	38	2	No sign of rhino indication of illegal poaching by gun
Way Kambas National Park (TNWK)					
II	Resort Bungur, Resort Cabang	05-10 January	88	2	No sign of rhino Apprehend intruder and confiscate the chainsaw A lot of human activities
I	Pesanggrahan, Way Kanan Atas, Ulung-ulung, Rawa Bulus	08-13 February	19	42	Faeces of rhino in Kali Batin atas
II	Kali Batin, Hulu Way Kanan, A. Putih, D2	25 February-02 March	40	46	At least the team found 5 prints of rhino, scrapes and rub. Assumed a male rhino Tiger footprint
II	D1, Wako, hulu Kali Bisu, D2	08-13 February	23	1	A lot of sign of rhino such as prints, scrapes, faeces, tree twists, etc.
III	Resort Rasau and around	25 February- 02 March	26	43	No Sign of rhino Tiger corpse in a trap A lot of traps (at least 21 traps) then the team destroy these traps.
I	Pos Way Kanan, camp D1, Way Sepat, Sidodadi, PLG	25 February-01 March	35	30	The team found feeding sign of rhino
III	Wako - Rasau - Wako	10 - 18 March	19	74	Destroy a trap
II	Pos Wako, hulu Wako, Pinang Merah	05-12 March	34	65	The team found rhino prints in Wako - Rasau Arrest 5 suspects (illegal fishing)
I	Hulu Wako and Rasau	05-12 March	37	43	Destroy traps. Tiger corpse (bones)
III	Umbul Salam, Rasau, Wako	22-27 March	20	43	No sign of rhino Tiger print
I	Pos Wako, hulu Wako,	17-24 March	22	56	-

Unit	Location	Date of Survey	Length (Km)*	Duration (Hours)**	Remarks
	Rawa Pinang, Pos Rasau				
II	Pos Wako, hulu Wako, Rawa Pinang, Pos Rasau	17-24 March	22	56	-
Ujung Kulon national Park (TNUK)					
II	Geundir, Cicangkok, Kalejetan, Turalak, Ciheucit, Ciermokla, Ciakar, Cegog, Tj. Sodong, Cikiruh, Cikokosan, Seuseupan, Cihujan, Citangkil.	02-30 January	128	43	Rhino print (6 days of old) in blok Geundir (30 minutes from Legon Pakis village).
III	Geundir, Kalejetan river, Rorah Cikalejetan, Cituralak, west of Ciheucit, East of Ciheucit, Ciermokla upper, Cipunaga, Tj. Sodong, Cukang Lame, Cikokosan.	02-30 January	106	36	Rhino print (6 days of old) in blok Geundir (30 minutes from Legon Pakis village).
I	Kalejetan, Taman Jaya, Cisaat, Cibayoni.	04-30 January	94	32	Rhino print (2 days of old) in Pangukusan. Human activities (searching of treasure, bird catchers, illegal trees cutting).
II	Cibanua, Ciermokla	12-20 February	116	36	the team found one male buffalo Timber theft
III	Kalapa Dua, Seuseupan, Cisimping, Pangukusan, Karangranjang, Cilintang, Muara Ciperepet, Tj. Telereng, Bandawoh	06-24 February	-	-	Rhino prints (6) with age between 3 – 6 days Feeding sign 2 locations
III	Karangranjang, Seuseupan, Kalapa Dua, Cisimping atas, Ranca Gebang, Ciermokla atas, Cilintang, Legon Kiara, Cikawing kecil, Cipakis, Cikalejetan atas (timur)	04 – 19 February	96	32	Rhino prints (8) with age between 1 – 6 days Feeding sign 3 locations Rhino faeces in Kalapa Dua 1 week of age Rhino's urine 1 loaction in Ranca Gebang
Coastal patrols					
	No reports				

2

PATROL DATA

SECOND QUARTER

(1 April - 30 June 1999)

Unit	Location	Date of Survey	Length (Km)*	Duration (Hours)**	Remarks
* This is the distance of the route as measured from a 1:50,000 map excluding the distance from camp to the forest.					
** The number of hours actively spent surveying excluding rest, meals and time at camp..					
Kerinci Seblat National Park (TNKS)					
I	Air Gambir Rawas, Air Inum – A. Bantal Kanan – Gn. Solang	01-09 April	40	65	The team found a few sign of rhino around Air Inum and between A. Bantal Kanan and A. Bantal Kiri. Probably there are two rhinos estimated of those areas. Ex human activities (rattan Extraction)
II	G. Solang - A. Berau - Sako Kidul - Sako Kanan. Air Teramang and around.	04-09 April	34	42	No sign of rhino. Found only tiger's tracks.
III	SP. 4 Penarik – Air Dikit – A. Inum and around.	01-08 April	33	53	The team found sign of rhino Found two suspects who carried a traditional gun (senjata api locok/kecepek). They assumed will be hunting, specially on rhino. Illegal rattan extraction and wood theft in rhino habitat.
I	SP. 8 Air Rami – A. Ipuh Panjang – A. Ipuh Ilau – Bt. Air Madu around.	22-29 April	34	42	No sign of rhino Found only Tiger and Tapir footprint A lot of ex human activities.
II	SP. 4 Penarik – A. Gambir Rawas – A. Inum and around.	22-26 April	28	27	Found 2 units of rhino traps. Those traps made of double nylon. To expel four men of gaharu theft and illegal fishing.
III	HPH PT. Maju – A. Seblat Merah – A. Rami – SP. 8 A. Rami	23-30 April	58	53	Found some signs of rhino Found an old rhino Traps (5 years old).
I	Gn. Solang – A. Berau Sako Kidul – A. Teramang (Ex. HPH Bina Samakhta).	07 – 16 May	44	56	The team found a few signs of rhino around A. Berau Sako Kidul – A. Berau Sako Kanan.
II	SP. 4 Penarik – A. Dikit – A. Bantal Kiri – A. Bantal Kanan – Gn. Solang.	06 – 13 May	37	56	Signs of rhino around Gn. Solang Expel three men of suspects of gaharu theft and confiscate their material.
III	Bt. Air Madu – A. Ikan – A. Ipuh Panjang – A. Retak – Letter S (Ex. HPH Bina Samakhta).	07 – 14 May	37	49	No sign of rhino, but the team found only sign of Tapir. No human activities.
I	Sungai Ipuh – Air Selagan Kanan – Air Selagan Kiri and around.	28 May – 06 June	-	54	No sign of rhino rattan and gaharu extraction. Elephant footprint and Tapir.
II	A. Selagan Kiri – Sungai Kabu – Air Majunto and around.	28 May – 04 June	42	53	No sign of rhino. Found only Tiger and Tapir footprint. 3 old traps.
III	Sp. Penarik – Air Inum –	28 May – 05	39	51	No sign of rhino.

Unit	Location	Date of Survey	Length (Km)*	Duration (Hours)**	Remarks
	Gn. Bungkok – Gn. Ladeh and around.	June			Much seeing local people who looking for turtle and fish.
II	Gn. Solang – Gn. Kayu Aro – Sungai Pinang – Bt. Aru and around.	11 – 18 June	54	48	The team found a few sign of rhino and other mammals such as Tapir and Tiger.
III	SP. 4 Penarik – A. Dikit – A. Inum – A. Gambir Rawas and around.	12 – 20 June	35	48	The team found footprint of rhino and wallow around A. Inum and A. Gambir. The team also found <i>Rafflesia arnoldi</i> . Human activities such as rattan extraction, fish theft, etc.
I	SP. 8 Air Rami – A. Ipuh Ilau – A. Ipuh Panjang – A. Ikan – Sp. Nanggung – Ex. HPH Bina Samakhta.	12 – 20 June	42	46	No sign of rhino Illegal activities such as gaharu extraction and fish theft. Sign of Tapir and Tiger.
Bukit Barisan Selatan National Park (TNBBS)					
IV	Tampang – W. Balambangan	06 – 13 April	54	67	Monitoring and recording of tiger attack in Pengekahan. The team found elephant's bones in 20 pieces.
V	Kali Kumbang and around	06 - 07 April	7	12	-
V	Penyantun – Bukit Cempaka	10 – 15 April	40	35	The team found rhino's footprint and wallow.
VI	Sumber Rejo – Pemerihan – W. Canguk – W. Baru – W. Nenok and around	07 – 15 April	71	81	Illegal hunting in Sumber Rejo, Way Haru.
VII	Sumber Rejo – W. Canguk – Napaliut – Way Haru – Pg. Cempaka – Penyantun – Way Nipah.	06 – 12 April	33	50	Many signs of rhino
IX	W. Pintau – Proliman – Inhutani V	08 – 14 April	42	48	sign of rhino (footprint).
VII	Km. 30 – W. Bambang – Kepiping	22 – 27 April	34	50	Traces of rattan and wood extractions. Apprehend suspects of illegal logging. Destroy the camps of the suspects.
IX	Kupang Hulu – Siring Huwong - W. Ngambur	24 – 28 April	32	36	Track and feces of Tapir
VIII	Panji Wayang – W. Ngambur -	20 – 29 April	34	42	The team found signs of "orang pendek/srimol" (footprint).
VI	Kali Kumbang – Umbul Seno	23 – 29 April	24	56	Forest conversion into land of agriculture (5 ha). The team also found replacing reforestation plants by coffee (3 ha).
VII	Karang Berak, Tirom, Haur Gading, Limus	05 - 12 May	30	48	Faeces & wallow of rhino. Signs of hunting (Senjata locok). Coffee plantation, 1.5 Ha, 17 y old.
IX	Umbul Tujuh – W. Ngaras – Grogol	06 – 13 May	36	54	Prints of Tiger and Tapir.
VIII	Way Pintau – Way Baru - Lunik	07 – 13 May	28	34	Encroachment/illegal logging around Way Pintau Evidence of "Meranti" (size 10x25x400 cm) in 10 pieces.
IV	Km. 24 – Km. 28 – Hulu way Bambang	07 – 10 May	18	32	Footprint, faeces, food, scrape of rhino. Wallow still active (1), prints spread

Unit	Location	Date of Survey	Length (Km)*	Duration (Hours)**	Remarks
					throughout the patrol route.
IV	Limus Paros, Bangun Sari	12 - 15 May	20	32	
V	Talang Agas & environs	12 - 15 May	13	38	Sign of 'orang pendek'
VI	Talang Asahan, Kali Pasir, Umbul 8, Umbul Basir	12 - 15 May	28	32	No rhino signs, no signs of hunting
VIII	Inhutani V, Way Saru Balak	17 - 19 May	11	8	No signs of rhino
IX	Umbul Sebelas, Hula Way	17 - 21 May	45	38	Tracks of rhino, track of Tapir. No signs of hunting
VIII	Way Biha – Talang Pendowo – Hulu Way Marang	19 – 23 May	35	40	No signs of rhino or hunting.
VII	Umbul Delapan – Umbul Basir – Kali Paisr – Talang Asahan	19 – 22 May	19	30	Coffee plantation area 37.5 ha inside the national park Intruders 19 groups of family.
VI	KM 24, Hulu Way Bambang	19 - 22 May	16	32	No disturbance. Track, faeces, wallow of rhino. Track of 'orang pendek'.
V	Umbul 8, Umbul Basir, Hulu W.	19 - 22 May	27	46	
V	Tampang – Sinar Ogan – Way Blambangan	11 – 17 June	28	52	Traces of theft of forest products. Destroying the evidences.
IV	Hulu Way Bambang – Km. 30 – Talang Sembilan	10 – 15 June	27	42	Sign of rhino Forest disturbances (wood theft, encroachment, etc).
VI	Km. 30 – Way Bambang – Way Pintau – Tulung Asahan	11 – 18 June	35	56	Sign of rhino Forest disturbances Apprehend the suspects and confiscated the evidences.
VII	Sumber Rejo – Way Canguk – Cawang Haro – Peninggeman	10 – 18 June	30	56	Bear's corpse
VIII	Pematang Langgar – Way Tembulih – Way Riau	12 – 19 June	60	56	Sign of rhino around the protected forests and national park, part of habitat disturbed by illegal logging and agriculture.
IX	Pematang Langgar – Way Tembulih – Way Ngaras	12 – 18 June	45	42	Sign of rhino Forest disturbances.
VIII	Inhutani V, Way sarubalak – Way Ngaras	22 – 28 June	64	63	Encroachment area covered 10 ha
IX	Inhutani V – Way Pintau – Talang Remaja	23 – 28 June	36	36	Wood theft in Inhutani V until the national park area.
IV,V ,VI, VII	Talang Enam – Talang Tumpak – Talang Sembilan – Hulu Way Bambang	23 – 25	0	0	Forest disturbances. A lot of evidences. Evidences destroyed.
Way Kambas National Park (TNWK)					
II	R.I – Meranggi	07 – 10 April	40	51	The team found scratch, wallow and footprint of rhino also print of Tapir.
III	D2 – Air Putih – Meranti	06 – 10 April	43	41	Footprint, feces and scratch of rhino. The team also found ex forest fire and a chainsaw.
I	Posdal – Way Kanan – SR	19 – 24 April	33	45	At least the team found footprints (3), urine (4), faeces (2), and scrape of rhino. Also found prints of Tapir. Expel the suspect of illegal fishing
III	S. Baru – Rasau	19 – 25 April	50	70	The team found footprint of rhino

Unit	Location	Date of Survey	Length (Km)*	Duration (Hours)**	Remarks
					(1). Suspect of illegal bird catcher.
II	L. Maringgai – Wako	28 – 29 April	21	24	Apprehend of a suspect of illegal fishing.
II	D1 – Wako – Raso	19 – 24 April	30	29	The team found a lot of rhino signs such as footprints, scrapes, faeces and urine. In fact, the team seeing a rhino directly at April 21, 1999. Apprehend 2 suspects (illegal fishing).
II	Botol – PLG	03 – 07 May	21	28	The team apprehend 2 suspects of gaharu theft, meanwhile one man escaped.
III	Cap C – Jalur Sukmala	03 – 07 May	33	35	The team found footprint, scrape, faeces and wallow of rhino. To provide elucidation to a suspect (illegal fishing).
III	Talang Sula – Way Kanan	14 – 16 May	19	21	The team found footprint, scrape, faeces and wallow of rhino. Illegal fishing – suspect elucidated
II	D1 – A. Hitam – Bungur	14 – 18 May	38	36	The team found rhino's scrapes (3), footprints (2), and urine. Also tiger's footprint.
II	Kalibatin	21-22 May	4	5	Apprehend 3 men suspects of gaharu theft, but 4 men got escaped.
II	Way Kanan – Wako – D1	19 – 25 May	81	51	The team found 10 tiger's traps active 2 Tiger corpses
II	D1 – Wako – Raso	23 – 26 May	30	30	The team found rhino's footprints (2), and scrapes (2).
I	NTF – Rawa Bulus	30 May – 01 June	9	17	Suspects of illegal fishing (5 men). They all apprehended.
II	Plang Ijo – Way Kanan	30 May – 01 June	23	22	Rhino's footprints (2) and wallow
II	D2 – A. Putih – Raso	10 - 15 June	35	34	Rhino's scrape, faeces and footprint.
III	Camp C – Letter T	19 – 22 June	20	18	Rhino's footprint. Traces of extraction.
Ujung Kulon national Park (TNUK)					
II	Tanjung Lame – Karang Ranjang – Tereleng – Cibandawoh – Citerjun – Cinogar	31 March – 01 April	64	21	Rhino's footprints (6), and food.
III	Tanjung Lame – Pengukusan – Tanjung Tereleng – Cibandawoh – Cinagar	31 March – 01 April	58	19	Rhino's footprint (1) and wallow in pangukusan Fish theft inside the NP.
II	Tanjung Lame – Karang Ranjang – Pengukusan – Cikeusik – Nyawaan	25 – 27 May	87	261	-
III	Semenanjung Ujung Kulon	25 – 27 May	151	453	Intruders, bird and fish theft decreased.
Coastal patrols					
	Tanjung Lame – Prepet – Laban	June 16, 1999	-	-	Expelling local fisherman inside the national park.
	Pulau Boboko – Pamanggangan	June 17, 1999	-	-	Expelling local fisherman inside the national park.

Unit	Location	Date of Survey	Length (Km)*	Duration (Hours)**	Remarks
	Cikarang – Citelang – Jamang	June 18, 1999	-	-	Expelling local fisherman inside the national park.
	Handeuleum tengah – Boboko – Tanjung Lame	June 19, 1999	-	-	Expelling local fisherman inside the national park.
	Tanuung Lame – Pulau Handeuleum	June 22, 1999	-	-	Expelling local fisherman inside the national park.
	Tanjung Lame	June 23, 1999	-	-	Expelling local fisherman inside the national park.
	P. Hamdeuleum	June 24, 1999	-	-	Expelling local fisherman inside the national park.

3

PATROL DATA

THIRD QUARTER

(1 July - 30 September 1999)

Unit	Location	Date of Survey	Length (Km)*	Duration (Hours)**	Remarks
* This is the distance of the route as measured from a 1:50.000 map excluding the distance from camp to the forest.					
** The number of hours actively spent surveying excluding rest, meals and time at camp.					
Kerinci Seblat National Park (TNKS)					
III	PT. Maju – Seblat Merah – SP. 8 Air Rami	30 June – 09 July	42	56	The Team found 6 Tiger's footprint. Feces of elephant estimates there are 8 elephants.
I	G. Solang – Bukit Aru – Bt. Batu Bedoro	01 – 09 July	38	63	The Team found rhino's Rub and wallow. The Team also found Tapir footprint.
II	SP. 4 Penarik – Air Gambir Rawas – A. Dikit.	01 – 06 July	30	30	The team found Tiger's print in size 10 – 13 cm. The Team also found Tapir footprint and muddy rub down of a rhino
I	SP. 4 Penarik - Air Inum – A. Bantal Kiri – A. Dikit.	20 – 29 July	58	49	Rhino's prints, wallow and rub down (2). 2 prints of Tiger Print of Tapir. The team found 5 suspects of rattan thieving, Camp of thieves 3x3 meters then destroyed it, also 4 suspects of rattan thieves.
II	Gn. Solang – A. Berau Sako Kidul – A. Berau Sako Kanan.	20 – 28 July	70	50	Tiger's print in size 10 – 13 cm. Tapir's print Fresh tracks of group of elephants (10 – 20 elephants) 5 suspects of rattan thieving in DAS Air Bantal. The Team also found 3 gangs of Gaharu thieving from Lunang village but they run away and the camp destroyed by the Team. The Team also found 3 gangs of wood log thieving from Tunggang village.
I	A. Dikit – A. Gambir Rawas – A. Bantal Kanan – A. Bantal Kiri – Kayu Aro – A. Inum	20 – 28 July	43	72	Tapir's print The Team found also feces, wallow, food, and rub down (2) of rhino.
III	A. Bantal Kiri – A. Bantal Kanan – A. Dikit	07 – 16 August	40	53	The team found 3 of rhino horn scratch. Different 2 rhino's prints Rhino's food such as Mahan Hijau leaves.
I	Gn. Solang – A. Bantal Kiri – A. Dikit – TNKS North region of North Bengkulu.	07 – 14 August	32	56	2 rhino's prints (no measurement, food and rub. Tiger's print.
II	Air Telon – A. Berau Kanan – Berau Kidul	09 – 15 August	36	492	Tiger's prints Tapir's print and tracks of group of

Unit	Location	Date of Survey	Length (Km)*	Duration (Hours)**	Remarks
					elephants.
II	Air Tembulun – Seblat Merah – AP. 8 Air Rami	23 – 28 August	24	46	2 Tiger's prints Tapir's print
III	A. Bantal Kiri – A. Bantal Kanan – A. Dikit	23 – 31 August	40	57	2 rhino's prints and horn scratch in Ulu Gambir Rawas. The Team also found 2 gangs of gaharu thieving (11 men) from Lunang village.
I	A. Bantal Kanan – A. Bantal Kiri – A. Gambir Rawas – A. Inum	06 – 12 Sept.	38	43	The Team only found wallow and rub down.
II	Gn. Solang – A. Bantal Kanan – A. Bantal Kiri – A. Inum	06 – 12 Sept.	39	49	The team found wallow and rub down also a new fresh footprint and urine.
I	Gn. Solang – Gn. Kayu Aro – Bt. Aru – A. Berau – Gn. Solang	20 – 27 Sept	41	50	The Team found print of tiger, Tapir and also elephant. The Team also found rhino's rub down.
II	Eks HPH Bina Samakhta – A. Teramang – L. Batu Bungkal – A. Berau Sako Kanan – A. Berau Sako Kidul – Gn. Solang	20 – 29 Sept.	37	56	Tiger's print 12 cm Tracks of group of elephants. Tapir's print.
Bukit Barisan Selatan National Park (TNBBS)					
V	Karang Berak – Way Nipah	14 – 20 July	35	64	The Team found a dead elephant hemmed in by the tree.
IV	Galang Tinggi – Talang Wayan Bukit Napalah – Hulu A. Nasal	14 – 21 July	38	64	Forest encroachment 10 ha of area and 3 illegal shelters 3 of years old.
VI	Galang Tinggi – Air Ubui – Peg. Bengkok – Bt. Jabul – Air Mendula	14 – 22 July	54	78	The forests is in good condition no illegal hunting but no signs of rhino either.
VII	Batu Anda – Tl. Way Limau – Tl. Harto – Tl. Haji – Binjai – Way Melesom	14 – 17 July	23	30	As far as route of patrol 90 percents of area is coffee farming and shrubs.
IX	Pematang Balam – Bukit Pandan – Hulu Air Manula – Hulu Air Lemong	14 – 20 July	52	50	The Team found print and feces of elephant and Tapir. In Ator Way Lemong found an encroachment or a new fresh tree cutting (3 months) extent of 16 ha. No suspects found.
V	Way Nipah – Pademaran – Suka Mulya – Karang Berak	27 – 31 July	26	40	Found print of Tapir and Tiger.
VI	Hulu Way Bambang – KM. 26 – Km. 21	28 – 31 July	20	32	The Team found 3 set of rhino's prints and the other signs such as feces and wallow. Forest encroachment 2 ha of areas.
VII	KM. 24 – Air Tetap Kanan – Pg. Hulu Nyuruk – Air Sambat Kiri	28 – 31 July	17	25	The Team found only Tapir and Tiger footprint.
IV	KM 35 BRT – Air Sambat – Gn. Danau	28 – 31 July	19	32	Forest encroachment 6 ha of areas.
IV	KM 28, B 50, Hulu Way Bambang, Sukaraja	10 – 16 August	28	56	The Team found a rhino's print (no measurement). Also Tiger's print. An old land agriculture (5 years old) which is still in process, but no suspect found.

Unit	Location	Date of Survey	Length (Km)*	Duration (Hours)**	Remarks
IX	Way Mendati – Krengseng - Hulu Way Rilau - Way Rilau - Siring Balak.	21 – 27 August	40	48	The Team found rhino feces (< 1 week). A new forest encroachment 2 ha in Siring Bugang, 3 and 1 ha in Krengseng (in a different GR).
IX	Penengahan – W. nenok – Pg. Langgar – W. Samang.	21 – 27 August	36	56	The Team found 7 set of rhino's prints.
VI	Buper – Peninggeman – Hulu Way Pemerihan – cawang Haro.	21 – 28 August	29	56	The Team found 2 sets of rhino's print. A lot of wood thieving cases but no suspects arrested or found.
IV & VII	Tampang – Cuku Redak – Hulu Way Kesugihan – Hulu Blambangan.	21 – 28 August	35	64	The Team found rhino's print and wallow in Way Kesugihan. The print found nearest to a land agriculture. The Team also found prints of Tiger and Tapir and hot spot in Way Sekawat.
IX	Penengahan – Way Paya – Pangekahan – Way Sleman – Way Blambangan – Tampang	08 – 17 Sept.	82	64	The Team found rhino's print and Tapir.
V	Penengahan – Pg. Langgar - Way Asahan	08 – 17 Sept.	44	80	Fire on shrubs about 1 ha of areas. The Team found rhino's prints (2). A new encroachment into a coffee plantation (1 ha).
VII	Penengahan – W. nenok – W. Paya – W. Samang – W. Lancuran – Tirom Tua.	08 – 17 Sept.	34	63	The Team found a rhino's print but no measurement. Also Tiger's print.
VI	Karang Berak – UMB. Kapuk – Seksi B – W. Supit – Ulu Menanga Kiri – Suka Mulya.	17 – 25 Sept.	40	56	There are no indication of rhino or illegal hunting on rhino or elephant. But still found human activity inside the Park such as agriculture and bird catching.
IX	Tampang – Way Blambangan – Way Sleman	22 – 28 Sept.	42	48	The Team found rhino's prints but unfortunately not clear enough to measure.
VIII	Talang Sebelas – Hulu W. Pintau – Hulu W. Ngaras.	22 – 29 Sept.	31	56	The Team found 4 wallows of rhino, prints and Rub Down. Forest encroachment in Forest Concession/Forest Reserve about 100 ha of areas. No suspects been found. Ex- human activities inside the NP.
VII	Tampang – W. Blambangan – Peg. Ramping – Sinar Ogan	22 – 28 Sept.	24	42	The Team found 2 sets of rhino's prints. Deer trap A new fresh tree cutting.
VIII	Kandang II – Pal 50 – Tanjakan Kapur KM. 22	24 – 27 Sept.30	50		Forest products thieving (rattan).
Way Kambas National Park (TNWK)					
I	Way Kanan – Camp. C	04 – 09 July	27	52	The Team found a theft camp. Arrested of 4 suspects of 16 gaharu theft. The rest were escaped.
II	PLG – Camp D1	04 – 10 July	21	46	Arrested of 3 suspects of gaharu thieving.
I	Mataram – Bungur Kec. Purbolinggo	10 – 11 July			The Team found 3 M3 of log wood and 2 M3 of wood.

Unit	Location	Date of Survey	Length (Km)*	Duration (Hours)**	Remarks
III	Resort Bungur – Cabang	13 – 18 July	146	33	The Team found 4 suspects of illegal fishing and 4 suspects of gaharu thieving.
I	Camp D2 – Air Putih – Tegal Yoso	13 – 18 July	37	50	The Team found Print, Scrape, wallow and feces of rhino. The Team also found 7 bicycles inside the area (2 destroyed and 5 handed over to Balai TNWK). Print of Tapir.
II	Camp D2 – Kali Biru Gerbang Tol – Camp D1	24 – 29 July	29	36	The Team found print, food, scrape, urine, tree twist, and feces of rhino. Also print of Tiger and Tapir.
III	Wako Benteng (and around)	24 – 29 July	45	44	The Team found print, food, scrape, wallow urine, tree twist, and feces of rhino.
I	Pesanggrahan – Way Tulung Sula – Camp D2	24 – 29 July	28	45	The Team found print and wallow of rhino Also print of Tiger and Tapir. 4 traps but no suspects been found.
II	Tegalyoso – Gerbang Tol – Air Hitam – Camp D1	04 – 10 August	46	38	The Team found peoples inside the Park to seek grass.
III	Tegalyoo – Way Anda	04 – 09 August	30	52	1 deer trap
I	Susukan Baru – Way Kanan	04 – 09 August	40	47	The Team found print, feces and food of rhino.
II	Pesanggrahan – Way Negara Batin – SRS	13 – 16 August	19	30	Arrested 8 suspects of fish and rattan thieving inside the Park. Evidences such 15 kg of fish and 13 pieces of rattan.
III	L.2 – Way Sepat – PLG	28.25	28	41	The Team found 10 men suspects of fish thieving with 70 kg of fish as evidence.
I	Umbul Salam – Rasau – Wako benteng – Camp D1	20 – 25 August	41	42	The Team found print, feces, scrape, food, wallow and urine of rhino. Also found 9 traps (?) which was 3 of them were active.
III	Way Penanggungan – Nibung – Way Ogai	20 – 24 August	50	50	Arrested 2 suspects of illegal fishing. The Team also found a stripe inside the park which was became line of traffic in and out the Park.
II	Pesanggrahan – Kali Batin – way Kanan – Kali Biru	20 – 25 August	32	42	Print, wallow, scrape and urine of rhino. Direct sighting on Siamang (2).
IV	Bungur – Way Ogai – Hulu Wako	04 – 10 Sept.	56	38	Arrested 8 suspects of illegal fishing. The Team found 8 bicycles.
III	Pesanggrahan – Way Negara Batin – SRS – Camp C	05 – 09 Sept.	24.3	48	The Team found feces of rhino. Direct sighting of <i>Cairina scutulata</i> . 5 suspects of fish thieving dan arrested 4 of 5 suspects of gaharu thieving
I	Camp D1 – Wako – Rasau	05 – 10 Sept.	51	56	The Team found print, feces and tree twist of rhino. Direct sighting on <i>Cairina scutulata</i> . Ex forest fire in Wako – Rasau (40

Unit	Location	Date of Survey	Length (Km)*	Duration (Hours)**	Remarks
					ha).
II	Pesanggrahan – way Negara Batin – way Kanan – Way negara Batin	05 – 09 Sept.	37	38	The Team found 6 suspects of illegal fishing inside the Park. The Team also found feces, scrape, urine and tree twist of rhino. Direct sighting on honey bear (<i>Helarctos malayanus</i>).
I	Camp C – SRS – PLG	14 – 18 Sept.	20	38	The Team found dead fishes caused by poisoning. Arrested of 8 suspects of frog thieving inside the Park.
II	Camp D2 – Karaoke – RI	14 – 18 Sept.	32	39	The Team found stacks of deer bones. Ex-forest fire about 100 ha (shrubs).
IV	Tegalyoso – Camp 5000 – Camp D1	14 – 19 Sept.	45	40	The Team found feces, scrape, urine, print of rhino. Still seeing smoke of ex forest fire.
I	Pegadungan River	23 – 28 Sept	104	57	The Team found 17 boats inside the Park but no suspects been found. All boats were destroyed. Arrested of 5 suspects of illegal fishing.
III	Camp Darjai – Way Kanan – SRS	23 – 27 Sept.	27	36	The Team found print of rhino and Tapir.
IV	Penanggungan – rasau – Simpang Mondo – Camp D2	23 – 29 Sept.	55	60	The Team found fresh of rhino signs such as print and feces. Arrested of 1 of 8 suspects of fish thieving.
II	NTF – Way Kanan – Kalibatin	23 – 27 Sept.	25	36	The Team found 3 suspects of fish thieving. And also signs of rhino such as scrape, urine, wallow, and feces.
Ujung Kulon national Park (TNUK)					
I	Citelang, Kalejetan, Handeuleum : TN Ujung Kulon	28 June – 23 July	90	120	The Team found print of rhino and bird thieving.
III	Ranca Gebang, Ermokla, Handeuleum : TN Ujung Kulon	09 – 24 July	84	79	The Team found print of rhino.
II	Kr. Ranjang - Kalejetan, Nyawaan : TN Ujung Kulon	09 – 23 July	83	176	The Team found print of rhino and ex shelter of bird theft.
I	Tj. Lame, Semenanjung Ujung Kulon : TN Ujung Kulon	01 – 18 August	105	66	The Team found print of rhino.
II	Tj. Lame, Alang-alang, Nyawaan : TN Ujung Kulon	31 July – 18 August	257	200	The Team found print of rhino. Arrested of fish theft.
III	Cimayang, Citadahan, Cibunar, Peucang : TN Ujung Kulon	09 – 20 Sept.	191	112	The Team found print, feces, wallow and food of rhino. The Team also found Banteng (<i>Bos javanicus</i>)
II	Nyawaan, Cinogar, Peucang : TN Ujung Kulon	09 – 19 Sept.	196	117	The Team found print and food of rhino also shelter of bird theft.
I	Tj. Lame, Nyawaan, Citerjun : TN Ujung Kulon	11 – 18 Sept.	36	12	The Team found print of rhino. Destroying of illegal shelter.
I	Kr. Ranjang - Cibandawoh : TN Ujung Kulon	25 – 27 Sept.	44	25	Forest fire in East of Cibandawoh.
Coastal patrols					
	No reports				

4

PATROL DATA

FOURTH QUARTER

(1 October - 31 December 1999)

Unit	Location	Date of Survey	Length (Km)*	Duration (Hours)**	Remarks
* This is the distance of the route as measured from a 1:50.000 map excluding the distance from camp to the forest.					
** The number of hours actively spent surveying excluding rest, meals and time at camp.					
Kerinci Seblat National Park (TNKS)					
III	SP. 4 Penarik – Air Gambir Rawas – A. Inum - A. Dikit.	06 – 10 Oct	15	27	The Team found wallow, scrape and print of rhino. The Team also found print of Tapir, Pig, and Deer.
II	G. Solang – Bukit kayu Aru – Bantak Kanan/Kiri – Gn. Bungkok – A. Inum – A. Dikit	06 – 12 Oct	40	49	Footprint, feces, scrape and wallow of rhino. The Team also found the signs of Tapir and Tiger existences.
I	Gn. Solang – Air Dikit – SP IV	06 – 12 Oct.	34	62	Footprint, feces, scrape and wallow of rhino. Print of Tapir. Wood log 4 pieces.
III	A. Rami – S. Merah – Ipuh Ilau	19 – 28 Oct.	27	45	The Team found wallow of rhino. Footprint of Tapir and Tiger.
II	SP. IV – Saltlick – Gn. Bungkok	19 – 27 Oct.	37	63	The Team found footprint and wallow of rhino also Tiger's Footprint.
I	A. Rami – Tembulun – S. Merah – Ipuh Ilau	19 – 27 Oct.	59	86	The Team found print of Tiger and Tapir Also footprint, feces and scrape of rhino. Wood log out side the Park (80 pieces).
III	A. Rami – A. Simunggur – A. Tembulun	09 – 17 Nov.	38	86	The Team found print of Tapir, Tiger, Owa, Siamang, Pig, Rangkong.
II	A. Dikit – A. Gambir Rawas – Bantal Kiri	09 – 17 Nov.	44	63	The Team found Rhino footprint, feces and scrape. Also Tigers and Tapirs.
I	SP IV Penarik, A. Gambir = A. Inum	09 – 13 Nov.	34	35	The Team found print of Tapir and Tiger.
III	A. Rami – S. Merah – A. Tembulun	23 – 30 Nov.	68	77	Rhino footprint, feces and wallow.
II	Gn. Solang – Kayu Aro	23 – 29 Nov.	38	47	The Team found the group of Elephant and also footprint of Tiger and Tapir.
I	SP 8 – Ipuh Ilau – Ipuh Panjang.	23 Nov. – 01 Dec	59		Footprint, feces and wallow of rhino.
III	SP 8 Air Rami – Tembulun – Seblat Merah	11 – 18 Dec.	39	69	The team found footprint of Tapir, Tiger, Siamang and Elephant.
II	Bantal Kiri – Saltlick	10 – 17 Dec.	34	64	The Team found footprint, feces and scrape of rhino.
I	Solang – Bantal kanan/Kiri – Gn. Bungkok.	10 – 18 Dec.	49	70	The Team found footprint, scrape and feces of rhino. Also Tapir and Tiger. Rattan extraction (75 pieces).
III	Sungai Ipuh – S. Kabu – Selagan Kiri – Selagan	23 – 30 Dec.	28	65	The Team found an old wallow of rhino, footprint of Tapir and timber

Unit	Location	Date of Survey	Length (Km)*	Duration (Hours)**	Remarks
	Kanan				thieving.
II	Air Ikan and around	26 – 29 Dec.	18	32	Tapir.
I	P. Kabu – Selagan Kiri – Air Kabu – Kiang – SP 8 – Ipuh Ilau – Ipuh Panjang	23 – 31 Dec.	42	75	The Team found a land of agriculture inside the Park about 20 ha. Feces of Tapir.
Bukit Barisan Selatan National Park (TNBBS)					
V	Karang Berak – Way bahima – W. Kejadian – W. Nenok – Penyantun	06 – 13 Oct.	53	64	The Team arrested 4 suspects of forest encroachment and 4 knives were confiscated. Coffee plantation (1 year old), destroyed. Footprint, feces and urine of rhino. Old rhino bones (3 years old) secured. Footprint of rhino.
VII	Karang Berak – Tirom – W. Campang Kanan – W. Asahan	06 – 14 Oct.	28	50	Footprint of Tiger. A reactive old Coffee plantation about 5 ha (age 8 years old).
IX	W. Ngaras – Umbul Tujuh – W. Pintau – Proliman	07 – 12 Oct.	38	42	The Team found so many footprints of rhino.
VIII	Umbul Tujuh – Hulu W. Ngaras – Hulu W. Tembulih	07 – 17 Oct.	53	80	Timber thieving in protected area such as Cempaka wood 156 pieces and rattan 30 pieces.
IV	Karang Berak – way Kejadian – Talang Serumpun – Tirom	11 – 19 Oct.	40	72	Land agriculture 0.5 ha. Illegal shelter of bird theft (destroyed) Wallow of rhino one year old Coffee plantation 1 ha (15 years old). Evidences of bird thieving in form of 5 set of punting pole.
VI	Karang Berak – Umbul Kapuk – Suka Mulya	12 – 19 Oct.	30	56	A set of punting pole of bird theft (destroyed).
IX	W. Ngambur – Way Ngambur Pangkalan – W. Marang – Siring Huwong	20 - 28 Oct.	35	63	The Team found fallen tree; Cempaka wood 7x14x 400 cm (30 pieces) and Meranti 5x7x400 cm (50 pieces). All the evidences had been destroyed by the Team.
VIII	Talang Serbelas – Way saru Balak – Way Pintau	21 – 28 Oct.	42	64	The Team found footprints (3) and wallow of rhino. The Team also found footprint of Tiger and Tapir.
VI	Penyantun – Hulu W. Nenok – Way Canguk – Way Pemerihan	25 – 30 Oct.	40	48	Illegal camps of timber theft; 3 days and 3 weeks old; destroyed. 4 suspects of timber thieving; escaped. Apprehend 2 suspects of wood theft handed over to PPNS Balai TNBBS.
V	Kakabu – Sinar Laut – W. kejadian – Pdamaran – Penyantun	25 – 30 Oct.	33	48	Coffee plantation 11 years old (2 ha); being nursing. Feces of rhino (1 month old). Feces and scrape of Tapir. Ex illegal logging.
IV	Telur Berak – Umbul Gajah – Hulu Way Menanga Kiri	25 – 28 Oct.	21	32	Coffee plantation 1.5 ha (being nursing). Footprint of rhino Ex timber thieving act. 5 and 7 ha of nursery land

Unit	Location	Date of Survey	Length (Km)*	Duration (Hours)**	Remarks
					agriculture.
VII	KM. 28 – Hulu W. Pemerihan – Peninggeman	27 – 31 Oct.	15	45	Ex timber thieving (10 days old).
IX	KM. 24 – Talang Sembilan	06 – 12 Nov.	40	56	The Team found footprint, tree twist, scrape, urine and feces of rhino.
VII	KM. 24 – Hulu Way Pemerihan – Peninggeman	07 – 11 Nov.	19	45	Footprint of rhino (a month old) Rafflesia flower Coffee plantation (0.5 ha); 8 years old; being nursing.
IX	Umbul Tujuh – Hulu W. Ngaras – Grogol and around.	08 – 15 Nov.	48	52	The Team found 4 set of footprints of rhino (one day old). Footprint of Tapir.
IV	Tampang – Cukuh Pandan – Way Blambangan – W. Sleman	09 – 18 Nov.	55	82	2 suspects of bird thieving (run away). Feces of rhino (1 month)
IX	Negeri Ratu – Umbul Basir – Talang Asahan	22 – 29 Nov.	46	54	No sign of rhino. A lot of human activities in timber thieving.
VI & IX	Way Pemerihan – Way Canguk – Sumber Rejo	17 – 24 Nov.	-	-	Forest encroachment 17 ha; rice field 1-2 months old. 11 illegal shelter.
IV	B. 50 – Sukaraja Atas – Peninggeman – Pesanguan – Penyantun	21 – 27 Nov.	62	56	7 suspects of land worker of agriculture (4 ha) forest encroachment 1.5 ha (1 month) 2 traps of deer; made of wire snares (destroyed). Processed wood 0.54 M3, 0.09 M3; destroyed.
VIII	Way Tembuh – Pinto Langgar – W. Rilau – way Mendati	11 – 18 Nov.	31	35	The Team found 3 footprints of rhino (1 month, 1month and 1 week). Footprint of Tapir and Tiger.
VIII	Talang Sebelas – Umbul Basir – Tulung Asahan	22 – 28 Nov.	35	39	Footprints of rhino (1 week and 2 weeks), wallow. Direct sighting on Tiger (1). Ex rattan thieving.
VII	KM. 30 – Hulu Way Bambang – Pemerihan	03 – 10 Dec.	30	72	The Team found 5 sets of footprints of rhino (1 week). Direct sighting on Tapir (adult). Forest encroachment 2.5 ha (3 months). Direct sighting on Rhino (mother and juvenile).
IV	Limus – Tampang – Cukuh Pandan – Suka Maju – Way Asahan	05 – 12 Dec.	45	64	Many local people who has a traditional gun (senjata locok) Local people who used to be a good hunter selling elephant ivory Timber thieving often occurred by owner of chain saw.
VI	Limus – Tampang – Tanjung Mas – Way Blambangan	05 – 12 Dec.	34	56	Traces of timber thieving. Elephant bones (47 pieces). Forest encroachment 2.5 ha (field rice and coffee plantation); 1 suspects arrested.
IX	KM. 30 – Hulu Way Bambang – Keping	12 – 22 Dec.	32	43	The Team found feces of rhino (2) and footprint of Tiger. Processed wood.
VII	Karang Berak – Hulu	13 – 20 Dec.	32	64	Processed wood (Meranti) 6 M3;

Unit	Location	Date of Survey	Length (Km)*	Duration (Hours)**	Remarks
	Menanga Kiri – Kejadian – Way Nipah				destroyed Feces of rhino (2); one month old.
IV	W. Nipah – Hulu W. Canguk – Hulu W. Pemerihan	16 – 22 Dec.	45	56	Processed wood 1.06 M3; destroyed. Processed wood 1.38 M3; destroyed. Processed wood 0.40 M3; destroyed. 2 suspects of pig hunter; evidences confiscated.
VI	Limus – Tampang – Tanjung Mas – W. Blambangan – W. Sleman	18 – 27 Dec.	38	80	Bones of Sambar deer (Rusa Sambar); 1 month old. Footprint of Tapir Illegal shelter of bird theft (1 year old).
IX	Mendati – Krengseng – W. Rilau – W. Tembulih – Pematang Langgar – Siring Balak	06 – 13 Dec.	52	50	The Team found footprint of Tapir (2), and rhino (1), also feces of rhino.
VIII	Inhutnai V – Hulu W. Ngaras – Umbul Basir	10 – 20 Dec.	51	49	The Team found 3 wallows of rhino (age a month old), 1 wallow (1year old), and also footprint a week old).
VIII	W. Telemek – Ngambur Bunuk – Ngambur Pangkalan	22 – 30 Dec.	47	56	The Team found Footprints (2) of rhino.
VII	Penegahan – G. Malang – Karang Berak – W. Campang Kanan – W. Supit – Hulu Menanga Kiri	25 – 30 Dec.	24	56	The Team found wallow (6 months old), footprints (3) of rhino in a different of age 3 months, 3 weeks, and 10 days.
V	Kandang II, Hulu W. Pemerihan – Pemerihan	27 Dec 1999 – 01 Jan 2000	17	28	The Team found footprint of rhino.
Way Kambas National Park (TNWK)					
I	Tegal Yosos – Rawa Kadut – Camp D2	05 – 09 Oct.	39	32	Arrest 2 suspects of intruders 4 suspects of timber theft run away, evidences such as 3 bicycles confiscated. Arrest 3 suspects of timber theft.
II	Way Kanan – Wako – Hulu Wako	05 – 09 Oct.	45	34	Arrest traditional boat (<i>perahu katrol</i>) with crew in Way Kanan/Kuala Kambas. The Team found an elephant corpse. People in Wako informed the elephant death by hunter. The corpse had burnt while the Team arrived to the location.
III	Penanggungan – Air Putih – Camp D2	05 – 10 Oct.	65	45	The Team found footprint and scratch of rhino The Team found a lot of fish death caused by poisoning. The Team found 7 bicycles (destroyed). Illegal camp of fish theft.
IV	Camp C – Way Sepat – PLG	05 – 10 Oct.	30	42	No sign of rhino nor habitat disturbances.
I	Way Kanan – SRS	14 – 19 Oct.	24	35	Arrest 3 suspects of gaharu theft inside the park with all evidences also 2 camps of gaharu theft. Arrested 3 suspects of gaharu theft inside the park then hand all suspects over Balai TNWK.

Unit	Location	Date of Survey	Length (Km)*	Duration (Hours)**	Remarks
II	Way Kanan – SRS	14 – 19 Oct.	23	35	Arrest 3 suspects of gaharu theft inside the park then hand all suspects over Balai TNWK.
III	Kali Batin – SRS	15 – 20 Oct.	13	12	Arrested 3 suspects of gaharu theft inside the park then hand all suspects over Balai TNWK.
IV	PLG – SRS – Rawa Bulus	14 – 20 Oct.	29	35	Arrest 3 suspects of gaharu theft inside the park then hand all suspects over Balai TNWK.
I	Way Kanan – SRS – Binjai	25 – 28 Oct.	25	32	The Team found footprint and feces of rhino 4 suspects of fish theft inside the park.
II	Kali Biru – Hulu Way Kanan	25 – 30 Oct.	27	38	Direct sighting on rhino but the Team could not take the photograph because the rhino run away. The Team found another rhino signs. The Team found also camps used by fish theft.
IV	Pos Way Kanan – Kuala Kambas – Wako	25 – 30 Oct.	96	52	No intruders
I	Karang sari – Way Binjai – Pesanggrahan	04 – 06 Nov.	14	23	The Team found traces of timber thieving. Arrest a suspect of gaharu theft and hand over Balai TNWK.
II	Pesanggrahan – Kali Batin – Ulung-Ulung – SRS – Pesanggrahan	05 – 09 Nov.	20	40	The Team found scrape and tree twist of rhino. Illegal camp of gaharu theft.
I	SRS – PLG	08 – 12 Nov.	21	21	Arrest of 4 gaharu theft, meanwhile 2 suspects run away. The four suspects were wounded fought with the other gaharu theft inside the Park.
I	Camp D1 – Air Hitam – Air Putih – Camp D2	18 – 22 Nov.	33	37	No forest disturbances. The Team found old and fresh feces of rhino and fresh scrape.
II	Way Kanan – Tegal Yoso	18 – 22 Nov.	40	37	Met with 50 local people inside the Park whose looking for resin. Direct sighting on group of elephant (about 35 elephants).
III	Pos Way Kanan – Camp D1 – rasau – Wako	18 – 25 Nov.	65	47	The Team found signs of rhino such as footprint, scrape, food, wallow and feces. Arrest 14 suspects of fish theft inside the Park.
I	SRS and around	27 – 29 Nov	8	7	Arrest 2 suspects of gaharu theft with all evidences.
II	SRS and around	25 – 27 Nov.	14	22	Arrest two of three suspects of gaharu theft and handed over to the Police Sector of Way Jepara.
II	SRS – Kali Batin – PLG	30 Nov. – 04 Dec.	34	47	Traces camp of gaharu theft.
IV	Simpang Mail – SRS – PLG	30 Nov. – 05 Dec.	33	41	Arrest a suspect of fish theft inside the Park. A lot of traces of gaharu thieving.
IV	Way Kanan – Camp C – Way Sepat – PLG	11 – 14 Dec.	29	34	A lot of traces of timber thieving.
I	Camp D2 – Wako – Rasau	11 – 16 Dec.	52	48	Wallow of rhino

Unit	Location	Date of Survey	Length (Km)*	Duration (Hours)**	Remarks
					Met with 25 fish theft inside the Park The Team found 11 Tiger traps which nine of them were active and one trap assumed had killed a tiger. All traps had destroyed by the Team.
II	Pesanggrahan – Way Kanan – Kali Batin	11 – 16 Dec.	28	50	The Team found wallow, feces, scrape and tree twist of rhino.
III	Way Kanan – Camp D1 – Rasau	11 – 16 Dec.	50	37	The Team found 2 wallows inactive and some scrapes. The Team arrest 1 of 2 group of fish theft inside the Park.
IV	SRS and around	16 – 17 Dec.	4	8	Joint patrol with the forest guard of Balai TNWK. Arrest 1 of 2 gaharu theft.
II	Pesanggrahan – Kali batin – Way Kanan – SRS	22 – 24 Dec.	14	20	No forest intruder
I	Plang Ijo – SRS	22 – 25 Dec,	20	34	Arrest 2 suspects of gaharu theft inside the Park. The Team found feces of rhino.
II	Rawa Kempis	25 Dec	5	3	Joint patrol with the forest guard of Balai TNWK.
III	Karang Sari – Kali Batin	22 – 25 Dec.	24	32	The Team found feces of rhino Traces of gaharu theft.
Ujung Kulon national Park (TNUK)					
III	Geundir, Cicangkol, Cipakis	01 – 02 Oct.	24	12	There are still illegal farming been found.
II	Laban, Cikokosan, Kalejetan, Geundir	02 – 06 Oct.	17	41	Direct sighting on wild ox (Banteng ; <i>Bos sondaicus</i>)
I	Tj. Lame, Ciburuluk	04 – 05 Oct.	26	14	Investigation on two suspects of timber thieving and storage.
III	Tj. Lame, Semenanjung Ujung Kulon	04 – 05 Oct.	18	20	Illegal farming in Ciburuluk Timber thieving case.
I	Tj. Lame, Ciperepet, Cipakis	06 – 07 Oct.	24	12	-
II	Tj. Lame, Cilincing	07 – 07 Oct.	0	8	-
III	Legon Pakis, Ciperepet, TG. Kihara	06 – 07 Oct.	12	16	-
III	Cinogar, Cimayang	08 – 12 Oct.	87	10	Direct sighting on Rhino The Team found also feces, food, footprint of rhino. Illegal shelter of shrimp theft.
II	Cinogar, Cimayang	09 – 13 Oct.	23	32	Direct sighting on Rhino.
I	Tj. Lame, Transek XIV (Peucang)	09 – 12 Oct.	-	-	-
III	Sempur, Cihujan, Lg. Pakis	13 – 15 Oct	18	21	Awareness to local people.
I	Tj. Lame, Legon Pakis	14 Oct	6	6	-
I	Tj. Lame, Cikawung	15 Oct	5	8	-
II	Laban, Kr. Ranjang, Cibandawoh	16 – 19 Oct.	35	24	-
III	Cilintang, Cihujan	19 – 20 Oct.	7	4	No sign of rhino been found.
III	Lg. Waru, Subwil Citelang	21 – 24 Oct.	60	33	The Team seeing a group of wild ox been eating. Illegal shelter of shrimp theft.
II	Daerah Nyiur	21 – 24 Oct.	45	24	The Team seeing a group of wild ox been eating.
I	Tj. Lame, Transek X	21 – 24 Oct.	60	28	The Team seeing a group of wild

Unit	Location	Date of Survey	Length (Km)*	Duration (Hours)**	Remarks
	(Nyawaan)				ox been eating.
III	Cilintang, Cihecut : TN Ujung Kulon	01 – 02 Nov.	26	16	-
III	Kalejetan, Seuseupan, Kr. Ranjang	03 – 05 Nov.	27	21	-
III	Transek XI, Cikeusik, Kr. Ranjang	06 – 12 Nov.	70	64	The Team found illegal shelter of bird theft.
III	Tj. Lame, Jamang, Cibandawoh, Kr. Ranjang	06 – 15 Nov.	40	100	Direct sighting on rhino being wallowing The Team found also footprints, feces and wallow of rhino.
I	Cibandawoh, Kr. Ranjang	06 – 12 Nov.	81	116	Bird thieving case Footprint of rhino.
II	Legon Waru	06 – 12 Nov.	55	56	Footprints of rhino.
I	Tj. Lame, Peucang/Transek XIII	16 – 20 Nov.	81	100	Footprints of rhino
II	Gardu Buruk	19 – 24 Nov.	28	48	Footprints of rhino
III	P. Peucang, Cikembang, Tj. Lame	20 Nov.	36	9	-
III	Chujan, Cihecut	22 – 25 Nov.	36	24	-
III	Tj. Lame, Transek IV, : TN Ujung Kulon	29 Nov. – 05 Dec	191	155	Javan rhino census Footprints of rhino (26 records).
III	Tj. Lame, Kalejetan	06 – 14 Dec.	87	62	-
II	Cilintang, Ciperepet, Cihujan	11 – 13 Dec.	32	24	-
II	Kalejetan, Alort Jangkar, Tj. Sodong	14 – 17 Dec.	36	27	-
III	Tj. Lame, Ciperepet, Kr. Ranjang	15 – 19 Dec.	66	39	The team found 4 wild ox Footprint of rhino Shrimp theft case
I	Tj. Lame, Kr. Ranjang, Geundir, Cipakis, Soge, Kp. Peuteuy, Ermokla, Cikanyere dan Cegog.	15 Dec. 1999 – 04 Jan 2000	130	180	Footprint of rhino
II	Kalejetan, Seuseupan, Cihecut	17 – 21 Dec.	43	40	The Team found 2 sets of rhino prints Illegal shelters of shrimp theft.
III	Tj. Lame, Cikalejetan atas, Cimahi, Pamatang Jogol, Geundir, Cipakis.	21 – 31 Dec.	87	77	Illegal shelter of timber theft.
II	Geundir, Cihecut, Cihujan, Cilentang, Kr. Ranjang, Kalejetan.	22 – 26 Dec.	32	25	-
II	Kalejetan, Ranca Gebang, Cihecut, Cikokosan, Alor Jangkar.	26 – 30 Dec.	47	39	Footprint of rhino.
Coastal patrols					
: No reports					

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PROGRAM FIELD PERSONNEL

FIRST QUARTER

(1 January - 31 March 1999)

NO.	TNKS	TNBBS	TNWK	TNUK
1.	Amran	Afrizal S.L	Amrodi	Apud S
2.	Desmonth Bangun	Agus Sulaeman	Bonari	Dendin Martin
3.	Edy Kesuma	Agus Sunarko	Joko Iswanto	Djuanda Saputra
4.	Edy Srijanto	Ayi	Junaidi	Hadimi
5.	Ferry Agus Bangun	Bahara	Rosdi Hartono	Hutbi Wirawan
6.	Iyat Suryadi	Budiono	Sujoko	Jazuli
7.	Juni Effendy	Didin Kamaludin	Suhadi	Lamri
8.	Rasyidin	Edy Rusmanto	Suparmin	Mustary
9.	Sakur	Hendra Wijaya	Sugondo	Muzakir Watir
10.	Suhara	Heryanto	Yusuwardi	Ridwan S
11.	Suryana	Marsum	Yahmin	Sarip Hidayat
12.	Suhendar	Miskun		Tata S
13.	Tri Yugo	Nang Jamadi		Teguh Basuki
14.		Olih		Untung Sunarko
15.		Samsu Haryono		Uzer Zarkasyi
16.		Suharsono		
17.		Sulamto		
18.		Timbul TB		
19.		Toho Hutagalung		
20.		Uga Yogaswara		
21.		Zen Afrial		
22.				
23.				
24.				
25.				
26.				

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PROGRAM FIELD PERSONNEL

SECOND QUARTER

(1 April - 30 June 1999)

NO.	TNKS	TNBBS	TNWK	TNUK
1.	Amran	Afrizal S.L	Amrodi	Apud S
2.	Bangkit	Agus Sulaeman	Boston Kaloko	Atib
3.	Desmonth Bangun	Agus Sunarko	Bahrn C.S	Atep S
4.	Edy Kesuma	Arif Rubianto	Bonari	Dendin Martin
5.	Edy Srijanto	Ayi	Joko Iswanto	Dindin Suherman
6.	Ferry Agus Bangun	Bahara	Junaidi	Entus Sutisna
7.	Iyat Suryadi	Budiono	Ma'turidi	Heri Khaerudin
8.	Juni Effendy	Didin Kamaludin	Rosdi Hartono	Iwan S
9.	Rasyidin	Edy Rusmanto	Sujoko	Jazuli
10.	Sakur	Hendra Wijaya	Suhadi	Lamri
11.	Suhara	Heryanto	Supamin	Mustary
12.	Suryana	Marsum	Sugondo	Muzakir Watir
13.	Suhendar	Miskun	Yusuwardi	Nana S
14.	Tri Yugo	Muksin	Yahmin	Ridwan S
15.		Nang Jamadi		Sumantha B
16.		Nasarius S. Waja		Sorhim
17.		Olih		Teguh Basuki
18.		Samsurizal		Untung Sunarko
19.		Samsu Haryono		
20.		Suharsono		
21.		Sulamto		
22.		Timbul TB		
23.		Toho Hutagalung		
24.		Uga Yogaswara		
25.		Ujang Suryadi		
26.		Zen Afrial		

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PROGRAM FIELD PERSONNEL

THIRD QUARTER

(1 July - 30 September 1999)

NO.	TNKS	TNBBS	TNWK	TNUK
1.	Amran	Afrizal S.L	Agus Sunarko	Apud S
2.	Bangkit	Agus Sulaeman	Amrodi	Atib
3.	Desmonth Bangun	Agus Sunarko	Bambang Meiyono	Atep S
4.	Edy Kesuma	Arif Rubianto	Boston Kaloko	Dendin Martin
5.	Edy Srijanto	Ayi	Bahrn C.S	Dindin Suherman
6.	Ferry Agus Bangun	Bahara	Bonari	Entus Sutisna
7.	Iyat Suryadi	Budiono	Joko Iswanto	Heri Khaerudin
8.	Juni Effendy	Didin Kamaludin	Junaidi	Iwan S
9.	Rasyidin	Edy Rusmanto	Ma'turidi	Jazuli
10.	Sakur	Hendra Wijaya	Rosdi Hartono	Lamri
11.	Suhara	Heryanto	Sudrajat	Mustary
12.	Suryana	Marsum	Sujoko	Muzakir Watir
13.	Suhendar	Memet Mukri	Suhadi	Nana S
14.	Tri Yugo	Miskun	Suparmin	Ridwan S
15.		Muksin	Sugondo	Sumantha B
16.		Nang Jamadi	Totok Riyadi	Sorhim
17.		Olih	Yusuwardi	Teguh Basuki
18.		Samsurizal	Yahmin	Untung Sunarko
19.		Samsu Haryono		
20.		Suharsono		
21.		Sulamto		
22.		Timbul TB		
23.		Toho Hutagalung		
24.		Uga Yogaswara		
25.		Ujang Suryadi		
26.		Zen Afrial		

Note : Agus Sunarko move to TNWK in September 1999.

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PROGRAM FIELD PERSONNEL

FOURTH QUARTER

(1 October - 31 December 1999)

NO.	TNKS	TNBBS	TNWK	TNUK
1.	Amran	Afrizal S.L	Agus Sunarko	Apud S
2.	Bangkit	Agus Sulaeman	Amrodi	Atib
3.	Desmonth Bangun	Arif Rubianto	Bambang Meiyono	Dendin Martin
4.	Edy Kesuma	Ayi	Boston Kaloko	Dindin Suherman
5.	Edy Srijanto	Bahara	Bahrin C.S	Djuanda Saputra
6.	Ferry Agus Bangun	Budiono	Bonari	Entus Sutisna
7.	Iyat Suryadi	Didin Kamaludin	Joko Iswanto	Heri Khaerudin
8.	Juni Effendy	Edy Rusmanto	Junaidi	Hadimi
9.	Rasyidin	Hendra Wijaya	Ma'turidi	Hutbi Wirawan
10.	Sakur	Heryanto	Rosdi Hartono	Jazuli
11.	Suhara	Marsum	Sudrajat	Lamri
12.	Suryana	Memet Mukri	Sujoko	Mustary
13.	Suhendar	Miskun	Suhadi	Muzakir Watir
14.	Tri Yugo	Muksin	Suparmin	Nana S
15.		Nang Jamadi	Sugondo	Sarip Hidayat
16.		Olih	Totok Riyadi	Sorhim
17.		Samsurizal	Yusuwardi	Teguh Basuki
18.		Samsu Haryono	Yahmin	Untung Sunarko
19.		Suharsono		
20.		Sulamto		
21.		Timbul TB		
22.		Toho Hutagalung		
23.		Uga Yogaswara		
24.		Ujang Suryadi		
25.		Zen Afrial		