

# ANNUAL OPERATIONS PLAN PLANNING PERIOD 9 – 2018

Public Summary

**DENNEBOS SURINAME  
N.V.**

Versie 1.0

April 2018

## Contents

1	Introduction .....	4
1.1	Company information.....	4
1.2	Brief description of the active concession.....	4
1.3	Historical production and land use .....	5
2	Review of activities carried out in Planning Period 8 .....	5
3	Inventory and production forecast for DBS Planning Period 9.....	6
4	Infrastructural and other works planned for Planning Period 9 .....	6
5	Social, community and marketing items .....	7
6	Annex.....	8

List of Exhibits

Exhibit 1-1. Area of the FMU by concession (from GIS data)..... 4  
Exhibit 1-2. Forest and landscape types of the active concessions..... 4  
Exhibit 3-1. Steps in calculating the AAA..... 6  
Exhibit 3-2. Kapvaks scheduled for harvesting in PP9..... 6  
Exhibit 4-1. Road activities planned for PP9 ..... 6  
Exhibit 4-2. Machinery available for PP9..... 6  
Exhibit 5-1. Staffing planned for PP9 ..... 7  
Exhibit 6-1. Location of DBS concessions (red) ..... 8  
Exhibit 6-2. Planned harvest kapvaks for PP9 (red, numbered); biodiversity reserves in green.... 9  
Exhibit 6-3. DBS Organization Chart (under review) ..... 10

## 1 Introduction

Dennebos Suriname (DBS) presents this Annual Operational Plan (AOP) as partial fulfillment of the forest management requirements of the Foundation for Forest Management and Production Control (SBB). The plan covers planning period 9 (PP9) that begins in 2018. The plan is continuing where the previous AOP PP8 ends.

The plan presents a brief description of the concessions, summary of activities in the previous planning period, calculation of allowable cut, volume forecast for the period (based on 100% pre-harvest inventory that has been conducted) and other planned activities. It also presents maps of harvest blocks planned for this period. The AOP is part of DBS's planning framework and has close links with the 5-yr Plan 2018 – 2022 (in progress) and the DBS Forest Business Plan.

### 1.1 Company information

Dennebos Suriname N.V. is a limited liability company incorporated on 21 September 2007 in Paramaribo District of Suriname (KKF #46908). The director is Soekhlal, Ruben K. (rubsoek@gmail.com) address ds. Martin Luther King wg. 61 bvn., Paramaribo, Suriname (Phone: 487 080, Fax: 487088).

In 2013, DBS acquired exploitation rights from a cluster of four consecutive concessions in Nassau in the districts of Sipaliwini and Brokopondo. Concession 38d is under another management unit and is not included in this plan. Three of these concessions have a total gross area of 24,605 ha. DBS submitted an application for a concession area to the east, this is known as D38. These areas are managed as one Forest Management Unit (FMU) (see Exhibit 1-1 and Annex Exhibit 6-1).

Exhibit 1-1. Area of the FMU by concession (from GIS data)

Concession number	Gross area (ha)
714b	18,826
38e	2,133
168	4,177
D38	21,725
Total	48,861

### 1.2 Brief description of the active concession

The active concession for PP9 is 714b (see annex Exhibit 6-2) with a gross area of 18,506 ha. The largest part of this concession consists of strongly undulating lowlands and some steeper slopes, particularly at the foothills of the Nassau Plateau and Hok A Hing Mountain.

Soil consists mainly of sand, sandy loam, gravelly clays on slopes, ridges, plateaus and hilltops. The different forest types are listed below (see Exhibit 1-2).

Exhibit 1-2. Forest and landscape types of the active concessions

Forest Type	% Area Coverage
	714b
Mesophytic High Dryland Forest	57%
Creek Forest	3%

Marsh Forest	-
Mixed Mesophytic and Marsh Forest	40%
Scrub and Forest Savanna	-
Liane Forest	-
Other	-

For the purpose of forest exploitation planning the entire FMU is considered as potentially productive forest. At the start of the operation more information will be available through inventory. It is expected that the use of satellite images will give an updated picture of the size of the mining activities in the concession. Through the commitment to High Conservation Value Forest (HCVF), potential biodiversity areas have been identified throughout the concession. It concerns three areas where no forestry activities will take place due to the importance of the high levels of biodiversity (see Exhibit 6-2). DBS is prepared to conduct research in these areas together with research institutions including the Anton de Kom University of Suriname.

The net operable area (NOA) is 41,997 ha, this has been achieved after deduction of the biodiversity reserves (4,864 ha). Due to the partial inventory of the FMU, a potential gross marketable volume of 5,298 m<sup>3</sup> per 100 ha has been estimated. With the help of the NOA indicated above, this gives a potential stock over the FMU of 2.2 million m<sup>3</sup> or an exploitable potential of 1,049,925 m<sup>3</sup>.

### 1.3 Historical production and land use

There is no evidence - from the exploratory inventory and other reconnaissance of the FMU – of any previous commercial logging, other settlements, agricultural activities or the exploitation of non-timber forest products

In the west and in places to the north and south of the FMU there are occurrences of gold mining. The analysis of satellite images shows that mining activities are concentrated along waterways and involve localized clearing of vegetation and extension of surface water. With the help of high-resolution Rapid Eye satellite technology, further research will be done.

## 2 Review of activities carried out in Planning Period 8

During PP8, a total of 10 kapvaks were harvested with a volume of 10.442.32 m<sup>3</sup>. Road construction and maintenance also took place. The sawmill at Suhoza was further developed. In addition, portable mills were established at Nassau. The base camps at Suhoza and the logpond were largely decommissioned and relocated to the Nassau area in concession 714b. The staff has followed various internal training courses. All industrial accidents are recorded. In this year 6 accidents were recorded.

There are no villages in the immediate vicinity of the concession. DBS had meetings with the DC of Brokopondo concerning the use of the FMUs by communities and about the joint maintenance of the road. Furthermore, there is close collaboration with the villages Redi Doti and Cassipora.

All FSC™ certificates are now under the management of Dennebos Suriname covering FM/CoC (C-124494), Controlled Wood (C-125235) and Chain of Custody (C-119653).

### 3 Inventory and production forecast for DBS Planning Period 9

The Annual Allowable Area (AAA) is set at 2,100 ha or on average 22 fully harvested blocks per year. For PP9 there are 22 new blocks or 2,100 ha scheduled to be harvested. An extensive harvest permit has been obtained for 9 of these blocks. Based on the previous production, the estimated production for PP9 is estimated at 21,000 m<sup>3</sup>.

Exhibit 3-1. Steps in calculating the AAA

Item	Value
Gross area of concessions 714b, 38e, 168, D38	46,861 ha
Area of biodiversity reserves	4,864 ha
Area harvested in cycle	3,100 ha
Net operable area remaining	38,897 ha
Total harvesting cycle	20 years
Years already into cycle	3 years
Remaining years of cycle	17 years
Average of original cycle and remaining cycle	18.5 years
AAA	2,103 ha

Exhibit 3-2. Kapvaks scheduled for harvesting in PP9

Concession	Kapvaks
714b	32-53

### 4 Infrastructural and other works planned for Planning Period 9

In order to support the harvesting activities, road construction will continue in PP9 (see Exhibit 4-1 and Annex Exhibit 6-2). The road to the neighboring concession is under construction by the concessionaire (Wintrip International NV). The location of the base camp is at the border of concessions 38d and 714b along a permanent creek. A temporary basecamp is planned for inventory and forward roading crew along the arterial road to the south. DBS will continue to implement its monitoring program to cover health & safety, operations, environment and community relations. Exhibit 4-2 lists the heavy equipment owned by DBS and available for use in PP9.

Exhibit 4-1. Road activities planned for PP9

Activity	Length
Maintenance	17 km
Construction	21 km

Exhibit 4-2. Machinery available for PP9

Item description	Number of pieces
Excavator	2
Bulldozer	2
Track skidder	1
Wheel skidder	1
Log loader	1

Terex dump trucks	2
ATV	1
Pickups	2

## 5 Social, community and marketing items

Dennebos Suriname has developed an organizational chart indicating responsibilities and line management (see Annex Exhibit 6-3). Total number of staff is indicated in Exhibit 5-1.

### Exhibit 5-1. Staffing planned for PP9

Section	Operations (DBS)
Management	6
Forest exploitation	5
Support staff	10
Admin	16
Sawmill	13
Contractors <sup>1</sup>	9
Total	59

DBS has a Standard Operating Procedure for occupational health and safety which will continue to be fully implemented during PP9. During this period, training will also be provided to improve the operation. DBS also offers students from NATIN and the University the opportunity to continue their work experience, internships and research projects in the company.

A collaboration between DBS, the local communities and the District Commissioners of Brokopondo and Sipaliwini is necessary. To prevent the DBS operation from having a negative influence on the members of the community and to maintain good relations.

DBS will also pay special attention to the use of High Conservation Value Forest in the concessions under its management by local communities.

DBS will continue its FSC™ CoC certification activities during PP9 and prepare for the annual audit due in March 2018. DBS will continue marketing FSC™-certified logs and squares to local sawmills and manufacturers as well as to the international market.

---

<sup>1</sup> Contractors include 4 persons on skidding/trucking; 5 persons on inventory

# 6 Annex

Exhibit 6-1. Location of DBS concessions (red)

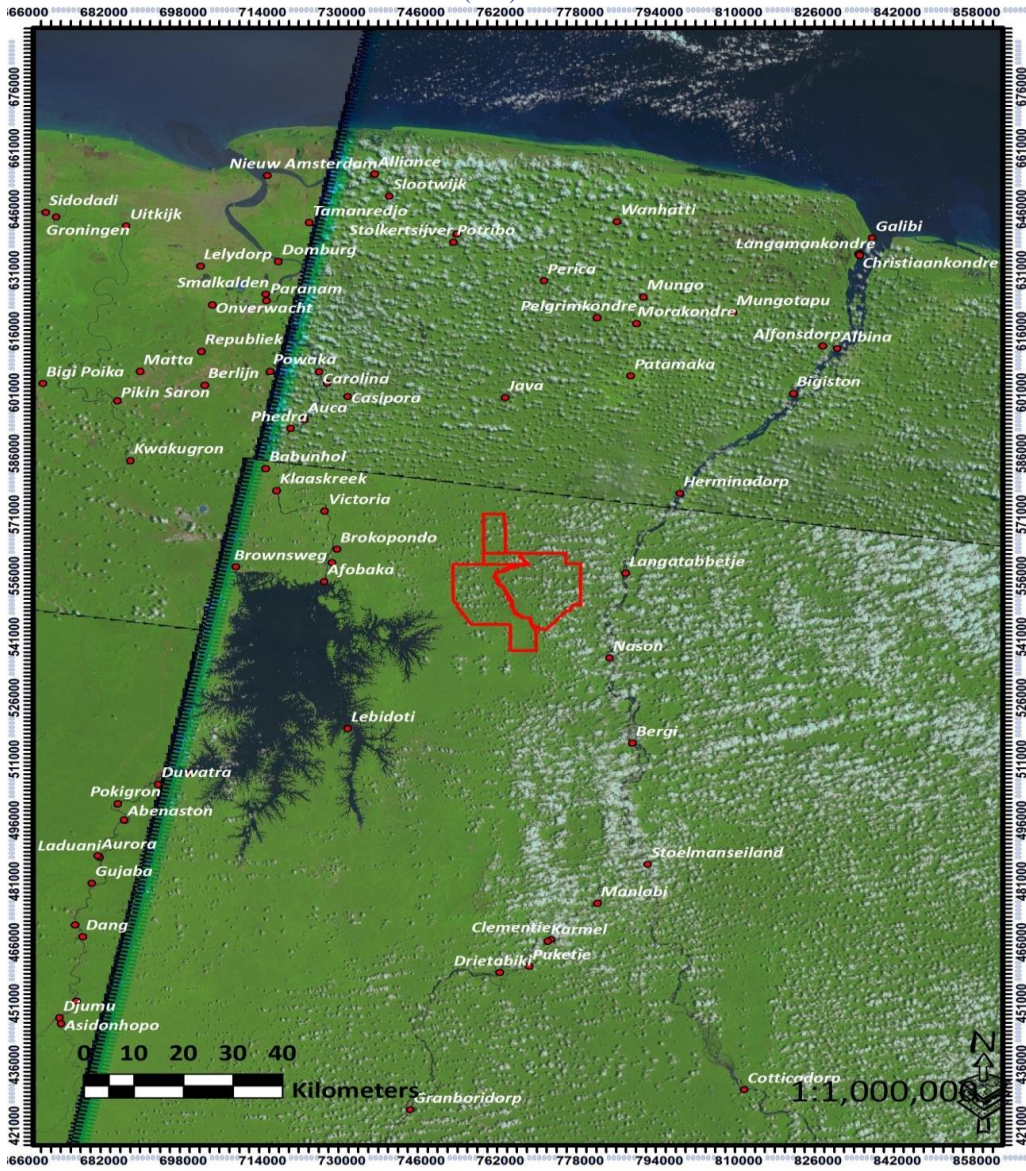




Exhibit 6-2. Planned harvest kapvaks for PP9 (red, numbered); biodiversity reserves in green

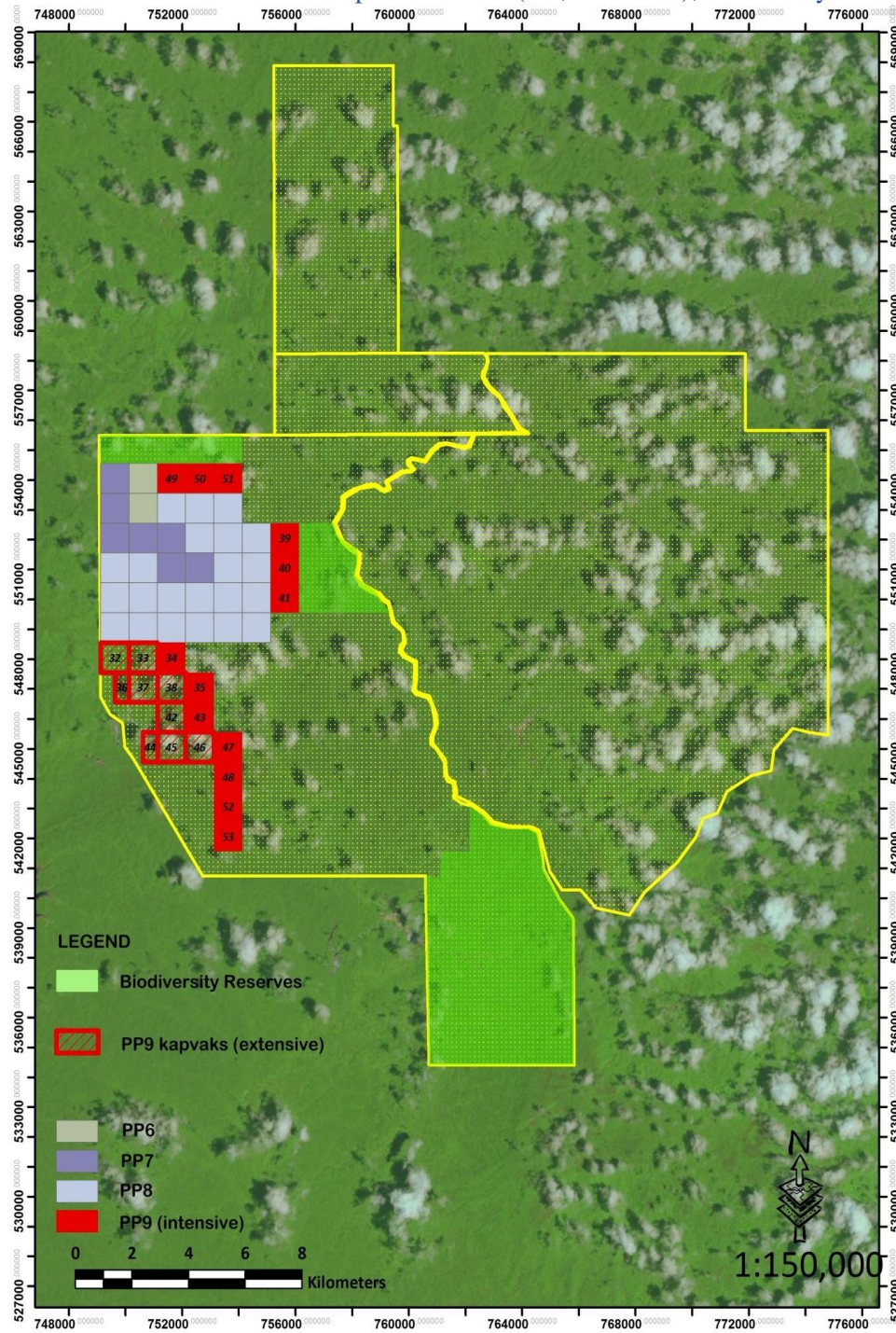


Exhibit 6-3. DBS Organization Chart (under review)

