

平成29年度林野庁委託事業  
「クリーンウッド」利用促進事業のうち生産国における現地情報の収集（欧州地域等）  
調査結果報告会 発表資料

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# 南アフリカの森林管理及び合法木材に関連する 法令及びその運用の概要

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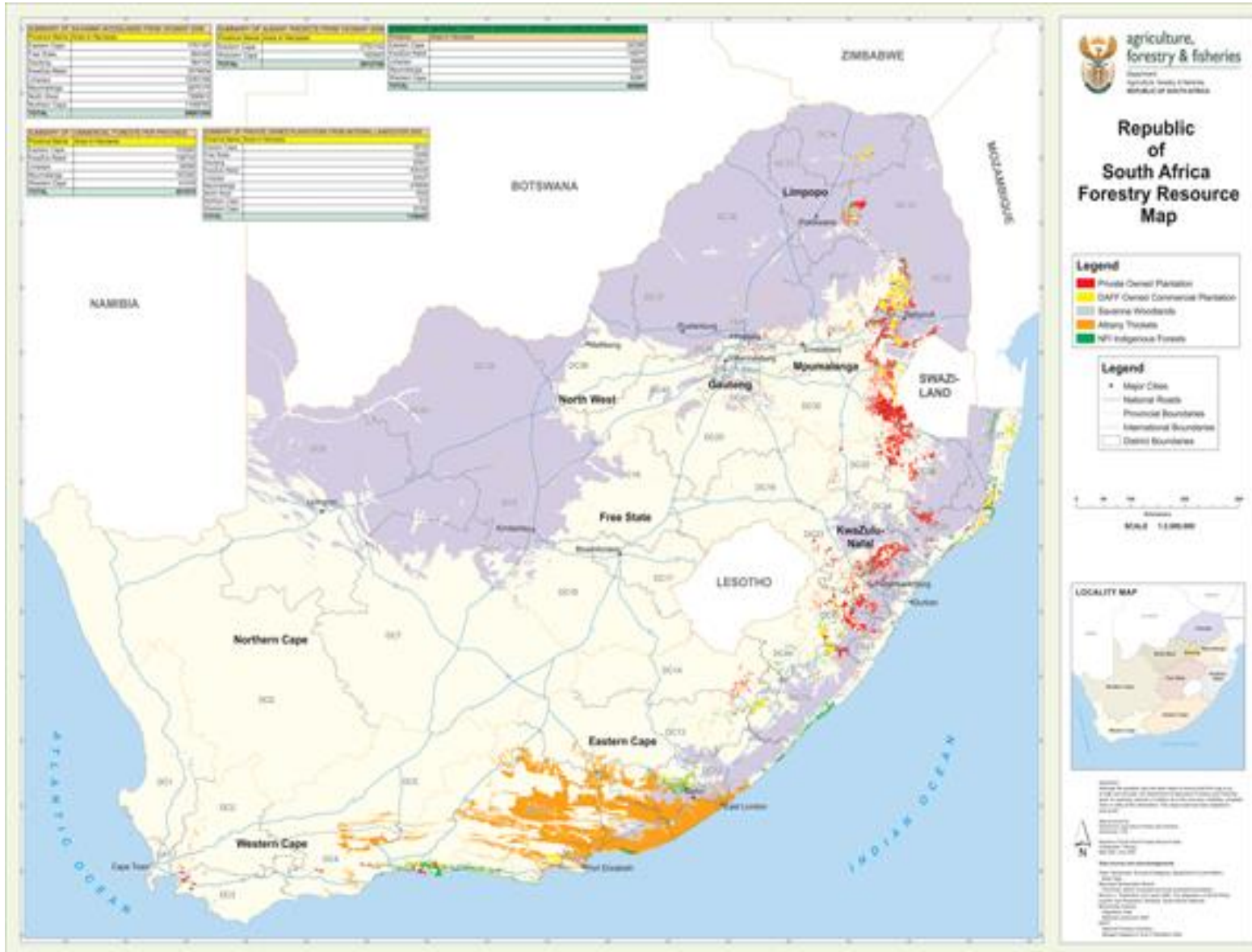
 一般社団法人日本森林技術協会  
Japan Forest Technology Association






国際協カグループ

# 構成

1. 森林資源状況
2. 木材生産状況
3. 木材輸出入状況
4. チップ原木の流通概況
5. 政府による合法性保証・確認システム(人工林伐採)
6. 政府による合法性保証・確認システム(貿易・輸送)
7. 民間の森林認証スキーム(FSC)状況
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# 1. 森林資源状況



地図上判例	区分	面積(ha)
	私有人工林	1,156,427
	国有人工林	451,870
	人工林計	1,608,297
	国家森林インベントリ指定在来林(天然林)	495,666
	森林計	2,103,963
	サバンナ樹林地	39,957,209
	アルバニ藪	2,912,726
	合計	44,973,898

南アフリカ共和国農林水産省(2009)を基に作成

## 2. 木材生産状況

人工林の構成

所有形態	面積(ha)	%	植栽樹種	面積(ha)	%
企業	611,584	50.1	マツ*	607,922	49.8
農家事業者	207,523	17.0	ユーカリ*	521,250	42.7
企業(前SAFCOL)	142,825	11.7	アカシア*	142,825	7.1
SAFCOL	128,176	10.5	その他	4,883	0.4
国有/自治体	85,451	7.0	-	-	-
小規模農家所有者	45,167	3.7	-	-	-
合計	1,220,726	100.0	合計	1,220,726	100.0

Forestry South Africa(2016)を基に作成

木材生産量(1,000m<sup>3</sup>)

種類	2012	2013	2014	2015	2016
パルプ用材	12,113	N/A	N/A	11,838	10,881
製材用材	4,486	N/A	N/A	4,677	4,447
坑木用材	815	N/A	N/A	580	433
電柱用材	378	N/A	N/A	428	328
その他	420	N/A	N/A	375	353
合計	18,212	N/A	N/A	17,898	16,442

Forestry South Africa(2012, 2015, 2016)を基に作成

# 3. 木材輸出入状況

輸出入額（百万R）

品目	輸出	%	輸入	%
紙	8.9	30.6	13.1	66.3
パルプ	12.3	42.2	1.6	7.9
固形木材	1.0	3.3	0.0	0.1
その他	7.0	23.9	5.1	25.7
合計	29.1	100.0	19.8	100.0

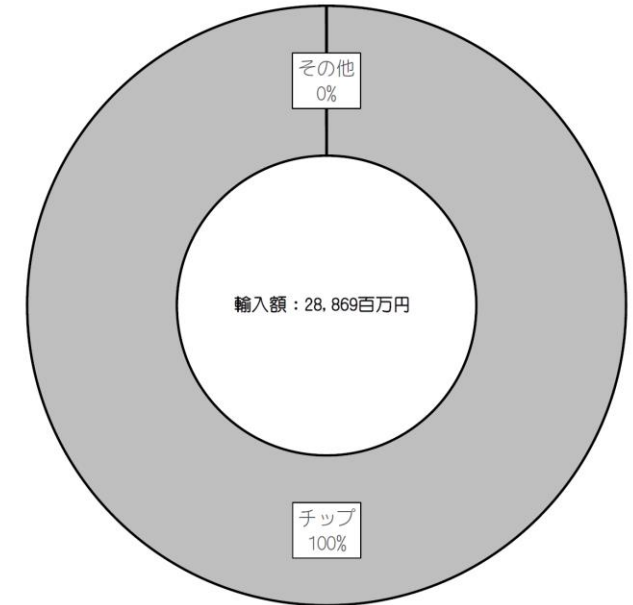
Forestry South Africa(2016)を基に作成

輸出先

品目	輸出先
新聞紙 (ロール/シート) HS 4801	アフリカ: Namibia, Zimbabwe, Zambia, Botswana, Malawi, Mauritius, Mozambique, Tanzania, Ghana, Madagascar, Swaziland, Uganda, Kenya, Nigeria, Lesotho, DRC, Togo アジア: India
チップ (燃料用鋸屑) HS 4401	アジア: Japan, China, Taipei, India, Vietnam, Korea ヨーロッパ: France, UK, Netherlands アフリカ: Botswana, Mozambique, Namibia, Lesotho, Zimbabwe 中東: Saudi Arabia, Kuwait 太平洋: New Zealand
木炭 (椰子柄炭を含む) HS 4402	ヨーロッパ: UK, Netherlands, Sweden, Switzerland, France, Germany, Belgium, Greece 中東: Saudi Arabia, Lebanon, Israel, Kuwait, UAE 太平洋: Australia, New Zealand アフリカ: Lesotho
その他木製品 HS 4403	アフリカ: Tanzania, Namibia, Botswana, Mozambique, Zambia, Lesotho, Kenya, Maldives, Ghana, Guinea, Swaziland アジア: Viet Nam, China ヨーロッパ: Netherlands,

南アフリカ共和国農林水産省(2009)を基に作成

日本の輸入



財務省「貿易統計」(2017)を基に作成

# 4. チップ原木の流通概況

人工林

道路



植栽箇所: 伐採(+皮剥き)

土場(道路際): 積み込み

運搬



チップ工場

栈橋



貯木場: 搬入



製造場:チップ製造



チップ倉庫:保管



船舶:積み込み

# 5. 政府による合法性保証・確認システム(人工林伐採)

## 航空写真 (1972年以前植林地)

## 植林許可書 (1994年)

## 構成表 (複数の林地で構成する場合)



ED-08 Afforestation Permits - Longridge

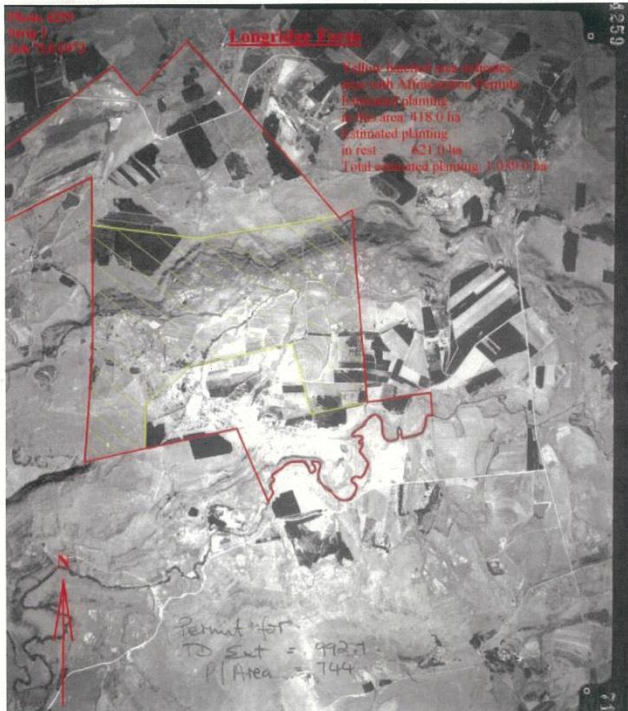


Figure 3 Photo 4259/1: Longridge Farm in winter of 1973.



ED-08 Afforestation Permits - Longridge

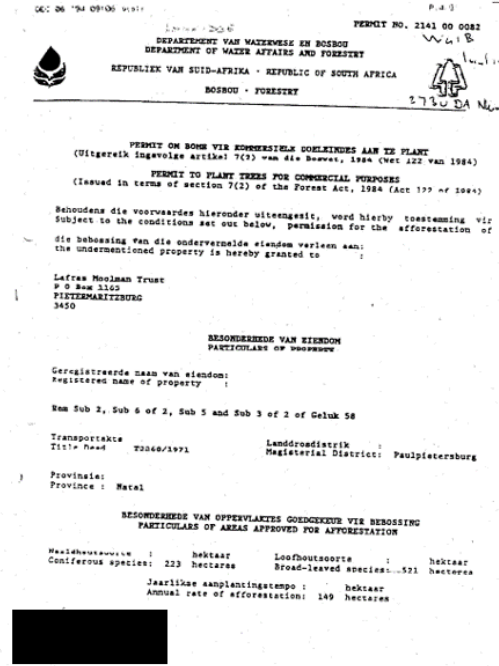


Figure 2 Copy of Afforestation Permit for Longridge (Geluk).

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ED-08 Afforestation Permits - Longridge

### 1. Purpose

To enable CTC staff who need to have the permit area for any of the particular farms ready to hand. These would typically include the Estate Managers, the Area Manager, the Planning Forester, the Environmental Officer and the Forestry Manager.

For this reason the permits and relevant aerial photography reflecting pre-1972 plantings were scanned and included in the document in a digital format, so that this document would be available in an electronic as well as hardcopy format.

### 2. Summary of Permit Areas by Farm

Permit areas for the farms comprising Longridge Estate:

Farm	Permit			Pre - 1972 Photography			Total Ha.s
	Number	Area (ha.)	Figure Number	Photo Details	Estimated timber on Photo (ha.)	Figure Number	
Arcadia	-	-	-	732/15 (713/73)	317	1	317
Longridge (Ptn's 2,3,5,6 of Geluk 58)	2141 00 0082	744	2	4259/1 (713/73)	1039	3	1,570

The photography was obtained from the Surveyor Generals office in Mowbray. The photographs were selected from Job 713 of 1973.

Although this photography was taken one year after 1972, much of the timber visible on the farms is either clearly more than one year old, or has been harvested. With an 8 year rotation for gum, a 10 year wattle and 25-30 year pine rotation, the harvested areas were clearly planted prior to 1972.

The timber areas on the photography were estimated by comparing them to the current timber compartment maps, and then calculating those compartments that appear on the photography. In some cases, where the timber plantings appeared to be larger or smaller than the current compartments, reasonable estimates were made of the differences, and the areas adjusted accordingly.

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# 5. 政府による合法性保証・確認システム(人工林伐採)

水使用許可(2015年11月6日)


**water & sanitation**  
 Department:  
 Water and Sanitation  
 REPUBLIC OF SOUTH AFRICA

Private Bag X 313, Pretoria, 0001, Sediberg Building, 185 Francis Baard Street, Pretoria, 0001, Tel: (012) 336-7500, Fax: (012) 323-4472/012 326 2715

**LICENCE IN TERMS OF CHAPTER 4  
OF THE NATIONAL WATER ACT, 1998 (ACT NO. 36 OF 1998)**

I, **Anil-Bijman Singh**, in my capacity as Director-General (Acting) in the Department of Water and Sanitation and acting under authority of the powers delegated to me by the Minister of Water and Sanitation, here by authorise the following water use in respect of this licence.

SIGNED: \_\_\_\_\_  
 DATED: \_\_\_\_\_

**LICENCE NO: 06/W12A/D/3760**  
**FILE NO: 27/2/1/W121/66/6**

1.	Licensee:	[REDACTED]
	Postal Address:	[REDACTED]
2.	Water Use	
2.1	Section 21 (d) read with Section 36 of the Act: Engaging in a stream flow reduction activity, subject to the conditions set out in Appendices I, II and III	
3.	Property in respect of which this licence is issued	
3.1	Rem of Sub 1 & 2 of Vergelegen No. 6160	
4.	Registered owner of the property	
4.1	Bayfibre Central Timber Co-Operative Limited	
5.	Licence and review period	
5.1	This licence is valid for a period of forty (40) years from the date of issuance and it may be reviewed at intervals not more than five (5) years.	

B 06442

LICENCE NO: 06/W12A/D/3760  
FILE NO: 27/2/1/W121/66/6

6.	<b>Definitions</b>  "Any terms, words and expressions as defined in the National Water Act, 1998 (Act 36 of 1998) shall bear the same meaning when used in this licence.  "The Provincial Head" means the Head of Provincial Operations: KwaZulu-Natal, Department of Water and Sanitation, P.O. Box 1018, Durban, 4000".
7.	<b>Description of the Activity</b>  The water use licence authorises the planting of <b>260 ha (two hundred and sixty hectares)</b> of the Broad-leaved tree group Genus: <b>eucalyptus</b> . The geographical location of the planting site is S: 28° 36' 48.0, E: 31° 28' 39.4" in the W12A Quaternary Catchment of the Pongola to Umzimkhulu Water Management Area as indicated in Table 1. The species specified in table 1 ( <b>Broad-leaved tree group, genus: Eucalyptus</b> ) may be planted interchangeably with the <i>coniferous tree group, genus: Pinus</i> .

Table 1: Water Use Details

Property Description	Registered Owner of Property	Tree group	Genus	Area (ha)
Rem of Sub 1 & 2 of Vergelegen No. 6160	Bayfibre Central Timber Co-Operative Limited	Broad-leaved	Eucalyptus	260



# 6. 政府による合法性保証・確認システム(貿易・輸送)

## 税関申告書

6	SAD 500 - CUSTOMS DECLARATION FORM	1. DECLARATION	A. OFFICE OF DESTINATION OR DEPARTURE
1	2. IMPORTER/CONSIGNEE	3. FORMS	4. OFFICE OF DESTINATION OR DEPARTURE
2	TIN 20220592	3.1	OFF. CODE DBSC
3	4230208771	3.2	MANIFEST NUMBER 809812765
4	5. IMPORTER/CONSIGNEE	4. REGISTRATION NO.	5. ASSESSMENT NO. AND DATE
5	TIN	580159	
6	BASIC	7. DECLARANT REFERENCE NO.	8. RECEIPT NO. AND DATE
7		1808 DSE.6653	0353
8		14-Aug-2018 10:16:56	N
9	14. DECLARANT/AGENT	9. VALUE DETAILS	10. INVOICE NO. AND DATE
10	DBK - SEBENZA FORWARDING & BR		C353
11	6 BONDENKOTON PLACE		26/08/2018
12	JACOBS		
13	15. COE		
14	16. COO		
15	17. OWNER CODE		
16	18. IDENTIFICATION, DATE AND NATIONALITY OF TRANSPORT AT ARRIVAL		
17	19. CONTAINER		
18	20. DELIVERY TERMS		
19	21. IDENTIFICATION, DATE AND NATIONALITY OF TRANSPORT AT FRONTIER		
20	22. CURRENCY AND TOTAL VALUE		
21	23. RATE OF EXCHANGE		
22	24. OTHER COSTS DETAILS		
23	25. TMF		
24	26. TM		
25	27. PLACE OF DISCHARGE		
26	28. Consign / Trans Particular		
27	29. COE		
28	30. LOCATION OF GOODS		
29	31. PACKAGES AND DESCRIPTION OF GOODS		
30	32. ITEM		
31	33. COMMODITY CODE		
32	34. COC		
33	35. GROSS MASS (KGS)		
34	36. NETT MASS		
35	37. CPC		
36	38. QUOTA		
37	39. QUOTA		
38	40. SUMMARY DECLARATION/ PREVIOUS DOC		
39	41. SUPP. UNITS		
40	42. CUSTOMS VALUE (FCY)		
41	43. V.M		
42	44. ADDITIONAL INFORMATION		
43	45. COUNTABLE QUANTITIES		
44	46. STATISTICAL VALUE		
45	47. CALCULATION OF DUTIES AND TAXES		
46	48. IDENTIFICATION OF WAREHOUSE/ TIME LIMIT		
47	49. SUMMARY OF TOTAL DUTIES AND TAXES		
48	50. DECLARATION		
49	51. FOR OFFICIAL USE		
50	52. L.R.N. No.		
51	53. M.R.N. No.		
52	54. SIGNATURE		
53	55. DATE		
54	56. PREPARED BY		
55	57. DATE		
56	58. FORM GENERATED BY		
57	59. VERSION		

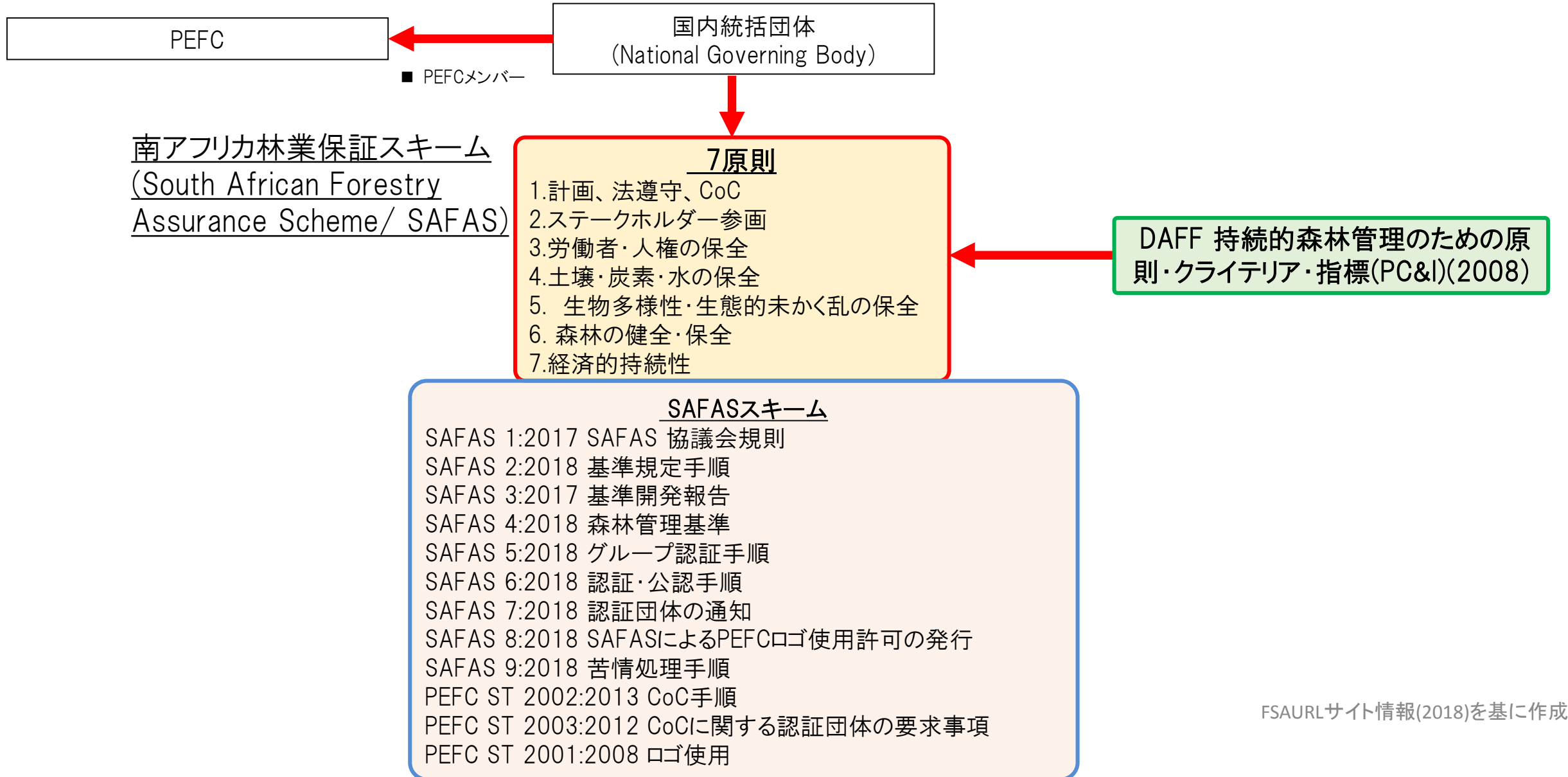
## 7. 民間の森林認証スキーム(FSC)の状況

区分	件数	面積(ha)	人工林に対する割合(%)*	備考
FM	20	1,388,954	86	管理区域の全面積(水域沿いの植栽除外地などを含む)と推測される。
CoC	116	-		

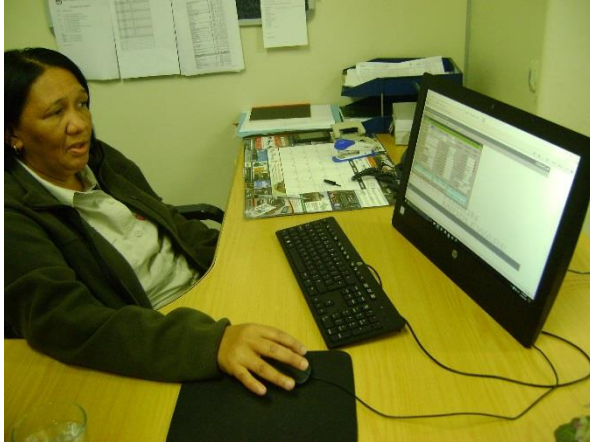
注:南アフリカ共和国農林水産省(2009年)の人工林面積計に対する割合

FSC(2017, 2018)を基に作成

# 8. 南アフリカ国内森林認証スキーム 「南アフリカ林業保証スキーム(SAFAS)」の概要



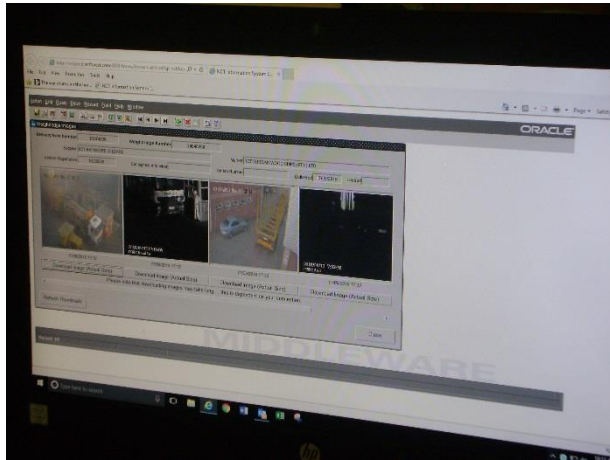
## 9. 木材トレーサビリティ自主管理例



木材供給計画、運送状の  
情報管理



仕向け地ごとに丸太に着色



カメラによるトラックの  
遠隔監視



運送状、丸太の着色、  
トラック積荷重量の点検

# 9. 木材トレーサビリティ自主管理例

木材供給計画

運送状

IDP 07-02

FORESTRY CO-OPERATIVE LIMITED

## TIMBER AGENT SUPPLY PLAN CHECKLIST

NCT SUPPLIER/MEMBER:

Tornado Bulk Camers Pty Ltd SUPPLIER/MEMBER No.: 3336801

Primary Agent	Sub-Agent	Supply Mths	Timber Source	Current Owner Contact No & Address	Location/GPS	Dispatch Pt	Genus & Spp	Tons	Service Providers
Tornado Bulk Camers			Bulwer	Paulos 0192513289	E 27.46 775 S 29.47 365	Bulwer	wattle	300	Tornado DWC / R Boy
Tornado Bulk Camers			Kokstad	Allister 0544815982	E 5.30 253 S 24.16 974	Kokstad	wattle	300	Tornado DWC
Tornado Bulk Camers			Vyneid	Lewis 0814034641	E 31.07 212 S 27.50 067	Vyneid	wattle	300	Tornado E / Boy

Has the Supplier/Member signed the Controlled Wood Supply Declaration? YES  NO

Signed: \_\_\_\_\_

Signed: \_\_\_\_\_

Supplier/Member

NCT Representative

Date: 10/09/2018

\* An agent is any person (including Contractors, Transporters and Growers) who supplies timber to NCT that does not originate on their own land, i.e. they source timber from one or a number of timber growers.

## GOODS DECLARATION

4154201

Consignor: [Redacted] Purchased / Sourced from: [Redacted]  
 Contact: PETE ODELL Phone: [Redacted]  
 Address: [Redacted]  
 Farm: BAYNESFIELD - 4199 Plant date: [Redacted] Fell date: [Redacted]  
 Dispatch From: BAYNESFIELD - S007  
 Loading Contractor: [Redacted]  
 Harvester: [Redacted]  
 Planned Payload: 35 TONS NCT Order No. [Redacted] Request Number: 568638  
 Load date: [Redacted] Date To Be Delivered: [Redacted] Week Number: [Redacted] Month Week: [Redacted]  
 Month End Date: 30/09/2018 Week Ending Date: [Redacted]  
 Job Code: [Redacted] Transport Type: ROAD LONG HAUL

Consignee: [Redacted]  
 Contact: [Redacted]  
 Address: [Redacted]

Order Number: [Redacted] Reference: [Redacted]

Operator: [Redacted] Phone: [Redacted]  
 Address: [Redacted]  
 Driver Full Name: [Redacted] Driver ID Number: [Redacted]  
 Driver Contact Number: [Redacted]  
 Vehicle Registration: [Redacted] Trailers: [Redacted]

Nature and Quantity of Goods: Timber MEARNSII ( WATTLE) Code 18  
 Specification PULP / (-)

Party responsible for insurance: (Tick applicable box) Consignor  Operator  Vehicle Code [Redacted]

Vehicle TARE: [Redacted] GCM/GVM: [Redacted] Nett: [Redacted]

Axle Weights: [Redacted]

Driver/Sender... Signature: [Redacted] Date: [Redacted]  
 Received By... Signature: [Redacted] Date: [Redacted]  
 Received Tonnage: [Redacted] Weighbridge Number: [Redacted]

CERTIFIED: YES SA-COC-004103 FSC 100%

Identity: NCT acts as an agent only in this transaction and cannot be held liable, or any of its employees, for any transgression of the National Road Traffic Act, or any of its regulations, applicable to the consignor, operator or consignee listed in this goods declaration.

ご清聴ありがとうございました。