

## Summary of Responses to *Setting export quotas of Prunus africana: Guidelines for a Management Plan - Key questions*

	<i>good progress</i>
	<i>some progress but gaps remain</i>
	<i>potential priority area</i>
	<i>no answer</i>

Key question	Burundi	Cameroon	Equatorial Guinea	Kenya	Madagascar	Tanzania	RDC
<b>Objective 1 and 2: National and afro-montane forest cartography</b>							
<i>Survey of the distribution of the dominant vegetation types at National level</i>		Yes – see Onadef map 98					
Is there a Governmental Department in charge of Natural Resources Evaluation and cartography?	Oui, Institut Géographique du Burundi	YES Anafor	Non	Remote Sensing Department	Oui FTM ou centre national de la cartographie	Forestry Surveying and Mapping Section	Oui, le SPIAF (Service Permanent d'Inventaire et d'Aménagement Forestier/ Ministère)
Is there a forest national cartography available? If yes, which is the map scale? Which is the data format?	Non	Also GTZ satellite data Numeric, digital 1:150;000	Oui, Bioko 1/50.000 : Digitale, Région Continentale 1/100.000 : papier	Yes	carte de végétation de Madagascar (mise à jour en 2007)/Atlas type : sur papier, version numérique	Yes	Oui pour les forêts du bassin de Congo Non pour les forêts de montagne
Is this information accessible? Is this cartography based on field surveys? Is it possible to access to a	Non	Yes Yes	Oui, Oui, projet flore de la Guinée et Projet « Prunus	-	Oui Inventaire écologique forestier National ou IEFN	Yes	Oui Oui pour les forêts du bassin de Congo

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vegetation description of the forest types?			africana » Oui, différentes sources bibliographique		Oui au niveau national		Non pour les forêts de montagne
Is there detail cartography of forests with current (or potential) distribution of <i>Prunus africana</i> forests?	Non	Not detailed for Adaaoua or other areas Do have Mt Camroron 2001, 2008 Do have BHFP map of montane forsts 2004, cifor 08 Mt Muieanegouba 2008	Oui	Partial	Oui résultat de l'étude de filière (carte de distribution nationale) Inventaire de la potentialité pour le site-pilote SOFIA Inventaire à faire pour zone Nord(PE3) et zone Sud(projet CITES)	Non	Non
If yes, what is the scale? How recent is this assessment?	-	No Admaaoua Only Kilum BH 2004, 2008 and Mt Cameroon 2001, 2008, Mt kupe 2008	1/25.000, en 2005.	-	Carte nationale(1/10 000 000) Site pilote Sofia(1/25 000)	-	-
Have the cartography been based on field populations assessments?	-	Yes for NW, SW, Yes for Admaaoua 2001	Oui Teledetection et travail du terrain	-	Oui (site SOFIA)	Non	-

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<b>Objective 3: Inventory of the <i>Prunus africana</i> forest</b>							
Have any inventories or assessments of this species been conducted in the distribution area? What is the survey design?	Non	Twelve See Table in CIFOR presentation	Oui Systématique	Partial	Partiellement Sofia (site-pilote) : 1. projet de mise en place de plots permanents de suivi dans les lots d'adjudication 2. plots de suivi mis en place par étudiant doctorat (étude sur la vitesse de régénération écorce)	Non	Oui en 1996, comptage systématique par pieds
Have any ecological approach of this species been conducted in the distribution area?	Non	Yes Stewart – 2006, BHFP forboshah 1999 Ndam Mt Cameroon Admaaoua inventory 2001	Non	Non	Partiellement: National inventaire écologique dans le cadre de la mise à jour des bases de données IEFN	Non	Oui
Describe the resource inventory the density and silvicultural features for this species?	Non	Only done in sites that are inventories: Cifor NW KI, Kupe mauanaguyba and SW Mt cameoron – density Mt cam – 1992, 1996, 2001 - density Admaaoua - inventory 2001 – density Admaoua 2008 - – density Avana – genetic diversity 200.	Oui	Non	Inventaire dans les sites : - site-pilote SOFIA - Fianarantsoa (étude GREAT) - Fierenana (mémoire DEA)	Non	A compléter

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Is the population statistics of distribution areas known (e.g. density, tree size)?	Non	Yes – for sites inventoried	Non	Only three places Partial	Partiellement. Base de données établies à partir des inventaires dans la région de Sofia (site-pilote), mémoire de DEA (Fierenana)	Non	Non dans les Aires protégées et autres forêts galeries Oui dans les sites d'exploitation LUBERO-BENI
Have any species regeneration assessments been conducted?	Non	GTZ Meur Mt Cameroon 07 Stewart 2006/7 But have not measured quantitatively regeneration thickness – only measured tree health and mortality rates needs investigation	Non	Non	Evaluation de la régénération dans le cadre de l'étude Sofia (site-pilote), DEA (Fierenana) Etude en cours par un étudiant Doctorat	Non	Non (nouvelles activités)
Have any long-term ecological monitoring assessments been conducted?	-	Yes SW Mt Cameroon GTZ 2007 NW – BHFP and Stewaet 1996-2007 See Oku 07 conflict workshop presentation Not Adamaoua or other sites	-	Non	Non Suivi à long terme prévu dans les sites d'exploitation des 2 sites-pilotes	Non	-

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<b>Objective 5: Average bark yield and harvesting</b>							
Are current collection based on quantitative bark estimation?	pas de collecte effectuée faute d'inventaire	YES – partially based on Work of ICRAF and Mt Cameroon 2001 study Not in NW and Adamaoua	Non	Non	Oui	Non	Oui

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Is there any estimation of fresh bark weight/dry bark weight?	Non	YES Mt Cameroon 2001 report, which summarise 3 previous bark yield studies – Onduigui 2001 report also form anecdotal evidence in Bioko and NW NOT for other zones- Action for investigation? check with exporters	Oui	Non	Oui Estimation dans le cadre du projet SNGF/FSP (24kg/arbre)= quota prudent	Non	Oui, 50 kg/arbre
Are there debarking methods in place?	pas de récolte sauf pour les guérisseurs	Yes – 2/4 techniques is promoted and many collectors trained, but in practice is not respected or enforced Action for – need to have alternative harvesting technique that does not cause mortality and to verify the time scale in between re-harvesting Ref to Bioko = 10-20% mortality for trees with 60% harvesting	Non	Non	La méthode de prélèvement par écorçage sur pied est exigée dans le cahier des charges techniques et le cahier des charges environnementales Actuellement pratiquée dans le site d'exploitation Sofia		Oui, écorçage sur pied
Has bark thickness been estimated in natural trees?		Yes – See Mt Cameroon 2001 fig 7 yield calculation & Bioko study - which we safely feel we can Also in CIFOR 2008 report – but details not provided in report to obtain Also for Admaoua 2001 inventory thickness for non harvested trees was measured	Oui	Non	L'épaisseur varie de 0,4 à 3 cm selon l'âge de l'individu.	Non	2 à 5 cm (certitude) donc à vérifier

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Has bark regeneration period been studied?	Non	Think so- GTZ work – need to verify , anyway- think can use the Bioko Mgt plan work as relevant	Oui	Non	Etude en cours dans le cadre du mémoire de doctorat sur la regeneration écorce	Non	Non
Is the potential bark yield calculated by the use of population and bark yield data?	Oui pour les forêts mentionnées en 1996	CIFOR draft report used Yes Inventory: GTZ Mt Cameroon = 209 t. pa average (2000-2005) / 0.369 m3/ha (2008-2013) this will revise the 209 t calculation which is now outdated Inventory: MINFOF*Samba Pelmali Boudounga = 28.21 m3/ha Need to validate the 2008 Adamoua inventory Inventory: ANAFOR Tchabal Mbabo = 493 t. pa (2001-2011) VALIDIATED Inventory: ANAFOR Tchabal Gang Daba = 8.8 t. pa (2001 - 2011) VALDIATED Inventory: CIFOR Kilum-Ijum = 1.036 m3/ha (2008-2013) Inventory: CIFOR Kupe Muanenguba = 0.248 m3/ha (2008-2013) CIFOR is still translating the m3 to kg	Oui	Non	Oui Actuelle exploitation basée sur des données d'inventaire Et résultat estimation écorce étude SNGF/FSP	Non	Oui pour les forêts mentionnées en 1996
Is the current bark extraction quota known in harvest areas?	Les services provinciaux connaissent mais pour les paysans, il	Yes	Oui ; mais il n'existe pas l'information sur les nouvelles aires potentielles d'exploitation	Non	Oui. Sofia and Fierenana	Non	Les services provinciaux connaissent mais pour les paysans, il

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<b>Objective 7: Calculation of current quotas of <i>Prunus africana</i> in harvest areas</b>							
Is the current bark yield calculated by the use of population and bark yield data?		Yes	Oui	Non	Oui	Non	
Is there any estimation of fresh bark weight/dry bark weight?	Poids de l'écorce sèche = 50% écorce fraîche	Yes	Oui	Non	Considération de l'écorce fraîche.	Non	Poids de l'écorce sèche = 50% écorce fraîche
<b>Objective 8: Bark thickness by number of years since harvest and general monitoring</b>							
Is there knowledge of the current situation of the debarking trees in previous periods?	-	Yes – Whinconet report, Stewart, GTZ 2007	Partiellement	Non	Partiellement Pour les deux conventions SOFIA : quantité définie Zone Nord : inventaire en cours d'organisation avec Programme environnemental 1 Zone Sud : projet soumis à CITES	Non	Non

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Are the Management plans adapted depending of the situation observed through monitoring?	-	New MGT plan needed for all areas based on current available quotas- except Admaoua	Non	Non	Partiellement Pour les sites-pilotes Sofia : suivi en cours du plan de gestion au niveau direction régional	Non	Non
To describe how the management plans are reviewed	-		Non	Non	Mise en oeuvre du plan de gestion regional en cours Ajustement en fonction déroulement effective	Non	Non
How do stakeholders participate in the day-to-day implementation of the management plan?	-	yes for CFS and Mocap needs to be done for Adamaoua	Non	Non	Suivi de la mise en oeuvre à plusieurs niveaux : 1. stratégique Direction centrale avec Comité National Prunus : trimestrielle nt 2. opérationnel : Direction régional SoFIA et cantonnement forestier (sur terrain)	Non	Non



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Is the collection of the species following specific volume and quality instructions from the buyer?	-	Yes , buyer usually has an amount	Non	Non	Actuellement, renforcement du suivi pour le respect du cahier des charges	Non	Non
If not, how do collectors decide how much and what quality of material is required		Usually only collect once have signal from buyer	-	Non	Quantité collectée selon la demande des acheteurs	Non	Non
How is processing carried out by the harvesters before the material is sold?	-	Sometimes, if so, drying and maybe chopping Dried or wet, large or small pieces	-	Non	Séchage à l'air libre, Découpage en petits morceaux, Conditionnement dans des sacs en jute	Non	Non
Are the main stages in the commodity chain from harvesting to export or sale known and documented?	-	Largely, especially the exporters and permit holders, but this is often subcontracted for harvest and these agents are not known Non	Non	Non	Connaissance à partir des études de filière réalisée	Non	Non
Identify the main actors in the commodity chain	-	Yes. see baseline study and Prunus platform reports	APRA S.L., Ministère de l'Agriculture et Forêts, Ministère de la Pêche et de l'Environnement, Chambre Officielle Agricole de Bioko et CITES	Non	Paysans récolteurs, collecteurs, opérateurs acheteur, exportateur ou usine de transformation	Non	Non

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Can the processed medicinal product in the market place be traced back to its point of collection?	-	no _ need to introduce tracabilty system	Difficilement	Non	A partir du suivi documentaire	Non	Non
Resource managers and collectors have adequate skills to implement the provisions of the management plan, and to comply with the requirements of this standard.		smaller agents not need training and sensitisation	-	Non	Des formations des formateurs ont été réalisées dans la région pilote. Mais ils doivent encore passer leur connaissance aux paysans récolteurs	Non	Non
What are the strengths and weaknesses / gaps in the current knowledge and skills of resource managers?		Capacity building needs	-	Non	Besoin en renforcement de capacité	Non	Non
Resource assessment and monitoring		ANAFOR = making inventory, analyse and validate inventories, creating databases, creation and training of scientific research/experts advisory group , knowledge of mechanism for implementing CITES (MSc) MINFoF= knowledge of mechanism for implementing CITES (MSc). Private sector companies making inventory, CFs / Mocap = making inventory	-	Non	Besoin en renforcement de capacité	Non	Non

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Participatory processes	-	ANAFOR = monitoring exploitation, using:analyse databases MINFoF= monitoring exploitation, monitoring and analysing permits Private sector companies – harvesting techniques CFs /Mocap = monitoring in the field	-	Non	Besoin en renforcement de capacité	Non	