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Vί	acstroin.	ulic

(please complete one questionnaire per taxon, extra sheets may be used)

1a. Scientific name (including authority details):	
Chileranthemum lottiae Daniel	
1b. Synonym/s (if there has been a taxowidely used)	onomic change in the last 5 years or if
1c. English Common Name (if known)	
1d. Other Common Names (if known ar	nd state language)
2a. Order	2b. Family
Scrophulariales	Acanthaceae
3. Distribution (describe the range in te	rms of countries of occurrence.
subcountry units e.g. states, provinces, e	
name/s of the lakes, river systems, etc. it occurs in; for a marine taxon use	
names of estuaries, territorial waters, FA	O fisheries areas)
Mexico: Jalisco, Colima, Michoacan, Gu	uerrero
<u> </u>	

(usir	Red List Assessment ng the revised 2001 IUCN em), tick (3) one of the wing:	3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category
	Extinct (EX)	
	Extinct in the Wild (EW)	
	Critically Endangered (CR)	
	Endangered (EN)	
	Vulnerable (VU)	
Х	Near Threatened (NT)	
	Least Concern (LC)	
	Data Deficient (DD)	
	Not Evaluated (NE)	
 Note: If one of the threatened categories is selected (i.e. CR, EN or VU) then ALL the criteria, subcriteria and sub-subcriteria met for that category, must be listed in the box provided. 4. Rationale for the Red List Assessment (Including whatever population or range information were used, inferences, assumptions, etc. For NT specify what criteria were nearly met and for DD specify what little information is known. Use additional sheets if necessary.) Extent of occurrence is > 20 000km², but less than 100 000 km² in fragmented 		
	ical dry forest of western Mexi	

5. Reason for Change in Red List Assessment from that in the 2000 Red List (see www.redlist.org) tick (3) at least one of the following:
Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 2/4/2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):
a. Taxonomy (any taxonomic notes of relevance - optional)

b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)

Mexico: Jalisco, Colima, Michoacan, Guerrero	
c. Population (for example, population size, abundance (rare, scarce, common, etc.), number and size of subpopulations if known, number of locations and degree of fragmentation)	
d. Habitat and Ecology (including particulars about breeding ecology if relevant)	
3.5. Subtropical/Tropical Dry Scrubland	
e. Threats (the main threats to the species, and if known, the severity and extent)	
Threat Auth: 1.1. Agriculture 1.1.1. Crops 1.1.1.1. Shifting agriculture 1.1.1.2. Small-holder farming	
1.3.3 Wood 1.3.3.1 Small scale subsistence	
1.1.4 Livestock 1.1.4.2 Small holder	

f. Conservation Actions (including presence in protected areas and national legislation)

Known from the area of Chamela-Cuixmala Biosphere Reserve in Jalisco, Mexico	
g. Utilization	
11. Literature References (cited in full) used for the assessment and documentation	
w³Tropicos (2005). Missouri Botanic Gardens, http://mobot.mobot.org/W3T .	
Lott, E.J. (in prep) Listado Anotado De Las Plantas Vasculares De Chamela-Cuixmala	
Seasonal/Dry forest conversion and fragmentation:	
Trejo, I. & R. Dirzo, (2000) Deforestation of seasonally dry tropical forest: a national and local analysis in Mexico. <i>Biological Conservation</i> 94(2): p. 133-142.	

Questionnaire

(please complete one questionnaire per taxon, extra sheets may be used)

1a. Scientific name (including authority details):		
Phaulothamnus spinescer	ns A. Gray	
1b. Synonym/s (if there hawidely used)	s been a taxo	nomic change in the last 5 years or if
1c. English Common Nan	ne (if known)	
1d. Other Common Name	s (if known ar	nd state language)
2a. Order		2b. Family
Caryophyllales		Achatocarpaceae
subcountry units e.g. states	s, provinces, e ystems, etc. it	rms of countries of occurrence, tc.; for an inland water taxon use the occurs in; for a marine taxon use O fisheries areas)
Mexico: Baja California, N	ayarit, Sonora	
Note: A distribution map shattached.	nowing the Ex	tent of Occurrence MUST be
3a. Red List Assessment	2NI	
(using the revised 2001 IUC system), tick (3) one of the following:	3b. Fi A2c+3	Il in the Red List Criteria met (e.g. Bc; B1ab(iii); D) alongside the priate Red List Category
Extinct (EX)	• •	

	Extinct in the Wild (EW)	
	Critically Endangered (CR)	
	Endangered (EN)	
	Vulnerable (VU)	
Х	Near Threatened (NT)	
	Least Concern (LC)	
	Data Deficient (DD)	
	Not Evaluated (NE)	
4. Rationale for the Red List Assessment (Including whatever population or range information were used, inferences, assumptions, etc. For NT specify what criteria were nearly met and for DD specify what little information is known. Use additional sheets if necessary.)		
Extent of occurrence is > 20 000km², poorly collected but populations appear highly fragmented. Seasonally dry tropical forest, the principal habitat of the species is in Western Mexico is highly converted and fragmented.		
	ason for Change in Red List Assessment from that in the 2000 Red at (see www.redlist.org) tick (3) at least one of the following:	

Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 2/4/2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):
a. Taxonomy (any taxonomic notes of relevance - optional)
 b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)

c. Population (for example, population size, abundance (rare, scarce, common, etc.), number and size of subpopulations if known, number of locations and degree of fragmentation)
d. Habitat and Ecology (including particulars about breeding ecology if relevant)
Shrub of seasonally dry tropical forest 1.5 Subtropical/Tropical Dry Forest
e. Threats (the main threats to the species, and if known, the severity
and extent)
Threat Auth: 1.1. Agriculture 1.1.1. Crops 1.1.1.1. Shifting agriculture
1.1.1.2. Small-holder farming 1.3.3 Wood 1.3.3.1 Small scale subsistence
1.1.4 Livestock 1.1.4.2 Small holder

f. Conservation Actions (including presence in protected areas and national legislation)

11. Literature References (cited in full) used for the assessment and documentation w³Tropicos (2005). Missouri Botanic Gardens, http://mobot.mobot.org/W3T . Fishbein, M., Wilson, R.K., Yetman, D.A., Jenkins, P., & Martin, P.S. (1998). Annotated list of Río Mayo vascular plants. In Gentry's Río Mayo Plants: The tropical deciduous forest and environs of northwest Mexico. eds P.S. Martin, D.A. Yetman, M. Fishbien, P. Jenkins, T.R. van Devender & R.K. Wilson, pp. 167-522. University of Arizona Press, Tuscon. Seasonal/Dry forest conversion and fragmentation:	
w³Tropicos (2005). Missouri Botanic Gardens, http://mobot.mobot.org/W3T . Fishbein, M., Wilson, R.K., Yetman, D.A., Jenkins, P., & Martin, P.S. (1998). Annotated list of Río Mayo vascular plants. In <i>Gentry's Río Mayo Plants: The tropical deciduous forest and environs of northwest Mexico</i> . eds P.S. Martin, D.A. Yetman, M. Fishbien, P. Jenkins, T.R. van Devender & R.K. Wilson, pp. 167-522. University of Arizona Press, Tuscon. Seasonal/Dry forest conversion and fragmentation:	g. Utilization
w³Tropicos (2005). Missouri Botanic Gardens, http://mobot.mobot.org/W3T . Fishbein, M., Wilson, R.K., Yetman, D.A., Jenkins, P., & Martin, P.S. (1998). Annotated list of Río Mayo vascular plants. In <i>Gentry's Río Mayo Plants: The tropical deciduous forest and environs of northwest Mexico</i> . eds P.S. Martin, D.A. Yetman, M. Fishbien, P. Jenkins, T.R. van Devender & R.K. Wilson, pp. 167-522. University of Arizona Press, Tuscon. Seasonal/Dry forest conversion and fragmentation:	
Fishbein, M., Wilson, R.K., Yetman, D.A., Jenkins, P., & Martin, P.S. (1998). Annotated list of Río Mayo vascular plants. In <i>Gentry's Río Mayo Plants: The tropical deciduous forest and environs of northwest Mexico</i> . eds P.S. Martin, D.A. Yetman, M. Fishbien, P. Jenkins, T.R. van Devender & R.K. Wilson, pp. 167-522. University of Arizona Press, Tuscon. Seasonal/Dry forest conversion and fragmentation:	11. Literature References (cited in full) used for the assessment and documentation
, C	Fishbein, M., Wilson, R.K., Yetman, D.A., Jenkins, P., & Martin, P.S. (1998). Annotated list of Río Mayo vascular plants. In <i>Gentry's Río Mayo Plants: The tropical deciduous forest and environs of northwest Mexico</i> . eds P.S. Martin, D.A. Yetman, M. Fishbien, P. Jenkins, T.R. van
and local analysis in Mexico. <i>Biological Conservation</i> 94(2): p. 133-142.	Trejo, I. & R. Dirzo, (2000) Deforestation of seasonally dry tropical forest: a national

Questionnaire

(please complete one questionnaire per taxon, extra sheets may be used)

1a. Scientific name (including authority details):		
Lagrezia monosperma (Rose) Standl.		
1b. Synonym/s (if there has been a taxo widely used)	onomic change in the last 5 years or if	
1c. English Common Name (if known)		
1d. Other Common Names (if known and state language)		
2a. Order	2b. Family	
CARYOPHYLLALES	AMARANTHACEAE	
3. Distribution (describe the range in tersubcountry units e.g. states, provinces, ename/s of the lakes, river systems, etc. in names of estuaries, territorial waters, FA Mexico: Pacific states from Oaxaca through Jalisco	etc.; for an inland water taxon use the t occurs in; for a marine taxon use O fisheries areas)	

the r	Red List Assessment (using revised 2001 IUCN system), (3) one of the following:	3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category
	Extinct (EX)	
	Extinct in the Wild (EW)	
	Critically Endangered (CR)	
	Endangered (EN)	
	Vulnerable (VU)	
X	Near Threatened (NT)	
	Least Concern (LC)	
	Data Deficient (DD)	
	Not Evaluated (NE)	
ALL listed	the criteria, subcriteria and sud in the box provided. ationale for the Red List Assunge information were used, in hat criteria were nearly met an nown. Use additional sheets if	egories is selected (i.e. CR, EN or VU) then ub-subcriteria met for that category, must be sessment (Including whatever population or ferences, assumptions, etc. For NT specify and for DD specify what little information is necessary.) m², western Mexican dry forests have

Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 2/4/2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
, , , , , , , , , , , , , , , , , , , ,
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):
a. Taxonomy (any taxonomic notes of relevance - optional)
 b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
Mexico: Pacific states from Oaxaca through Guerrero, Colima, Michoacan to Jalisco. Lowland seasonally dry tropical forest

c. Population (for example, population size, abundance (rare, scarce, common, etc.), number and size of subpopulations if known, number of locations and degree of fragmentation)	
,	
d. Habitat and Ecology (including particulars about breeding ecology if	
relevant)	
1.5 Subtropical/Tropical Dry Forest	
e. Threats (the main threats to the species, and if known, the severity	
and extent)	
Fragmentation and conversion of Mesoamerican seasonally dry tropical forest.	
Threat Auth:	
1.1. Agriculture	
1.1.1. Crops	
1.1.1.1. Shifting agriculture	
1.1.1.2. Small-holder farming	
1.1.4 Livestock	
1.1.4.2 Small holder	
f. Conservation Actions (including presence in protected areas and	
national legislation)	1
Known from Chamola-Cuivmala Riosphara Posaryo	
Known from Chamela-Cuixmala Biosphere Reserve	
	1

g. Utilization
None known
11. Literature References (cited in full) used for the assessment and documentation
w³Tropicos (2005). Missouri Botanic Gardens, http://mobot.mobot.org/W3T .
Lott, E.J. (in prep) <i>Listado Anotado De Las Plantas Vasculares De Chamela-Cuixmala</i> .
Gordon, JE; Hawthorne, WD; Reyes-García, R; Sandoval, G; Barrance, AJ (2004) Assessing Landscapes: A case study of tree and shrub diversity in the seasonally dry tropical forests of Oaxaca, Mexico and southern Honduras. <i>Biological Conservation</i> 117, 449-442
Seasonal/Dry forest conversion and fragmentation:
Trejo, I. & R. Dirzo, (2000) Deforestation of seasonally dry tropical forest: a national and local analysis in Mexico. <i>Biological Conservation</i> 94(2): p. 133-142.

Questionnaire

(please complete one questionnaire per taxon, extra sheets may be used)

1a. Scientific name (including authority details):		
Bursera denticulata McVaugh & Rzed.		
1b. Synonym/s (if there has been a taxonomic change in the last 5 years or if widely used)		
1c. English Common Name (if known)		
1d. Other Common Names (if known ar	nd state language)	
2a. Order	2b. Family	
Sapindales	Burseraceae	
3. Distribution (describe the range in terms of countries of occurrence, subcountry units e.g. states, provinces, etc.; for an inland water taxon use the name/s of the lakes, river systems, etc. it occurs in; for a marine taxon use names of estuaries, territorial waters, FAO fisheries areas)		
Mexico: Jalisco, Colima, Michoacan		

the r	Red List Assessment (using evised 2001 IUCN system), (3) one of the following:	3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category
	Extinct (EX)	
	Extinct in the Wild (EW)	
	Critically Endangered (CR)	
	Endangered (EN)	
	Vulnerable (VU)	
Х	Near Threatened (NT)	
	Least Concern (LC)	
	Data Deficient (DD)	
	Not Evaluated (NE)	
ALL listed 4. Ra ra wl kr	the criteria, subcriteria and sud in the box provided. ationale for the Red List Assume information were used, in that criteria were nearly met an anown. Use additional sheets if	gories is selected (i.e. CR, EN or VU) then b-subcriteria met for that category, must be essment (Including whatever population or ferences, assumptions, etc. For NT specify d for DD specify what little information is necessary.) > 20 000 km² but limited to the seasonally

Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 3 May 2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
 10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required): a. Taxonomy (any taxonomic notes of relevance - optional)
b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
Known from the Chamela-Cuixmala Reserve, Jalisco, Mexico

c. Population (for example, population size, abundance (rare, scarce, common, etc.), number and size of subpopulations if known, number of locations and degree of fragmentation)
d. Habitat and Ecology (including particulars about breeding ecology if
relevant)
Habitats Authority:
1.5 Subtropical/Tropical Dry Forest
- Thereta (d d
e. Threats (the main threats to the species, and if known, the severity
and extent)
Threat Auth:
1.1. Agriculture
1.1.1. Crops
1.1.1.1. Shifting agriculture
1.1.1.2. Small-holder farming
1.3.3 Wood
1.3.3.1 Small scale subsistence

f. Conservation Actions (including presence in protected areas and national legislation)

Known from the Chamela-Cuixmala Biosphere Reserve in Jalisco, Mexico
g. Utilization
11. Literature References (cited in full) used for the assessment and documentation
w ³ Tropicos (2005). Missouri Botanic Gardens, http://mobot.mobot.org/W3T .
Lott, E.J. (in prep) <i>Listado Anotado De Las Plantas Vasculares De Chamela-</i>
Cuixmala
McVaugh, R & Rzedowski, J. (1965) Synopsis of the Genus <i>Bursera</i> L. in western Mexico, with notes on the material of <i>Bursera</i> collected by Sessé & Mocino <i>Kew Bulletin</i> 18 (2) 317-384
Seasonal/Dry forest conversion and fragmentation:
Trejo, I. & R. Dirzo, (2000) Deforestation of seasonally dry tropical forest: a national and local analysis in Mexico. <i>Biological Conservation</i> 94(2): p. 133-142.

Questionnaire

(please complete one questionnaire per taxon, extra sheets may be used)

1a. Scientific name (including authority	details):
Bursera instabilis McVaugh & Rzed.	
1b. Synonym/s (if there has been a taxo widely used)	onomic change in the last 5 years or if
1c. English Common Name (if known)	
1d. Other Common Names (if known ar	nd state language)
2a. Order	2b. Family
Sapindales	Burseraceae
3. Distribution (describe the range in tell subcountry units e.g. states, provinces, ename/s of the lakes, river systems, etc. it names of estuaries, territorial waters, FA Mexico: Oaxaca, Guerrero, Michoacan,	etc.; for an inland water taxon use the t occurs in; for a marine taxon use .O fisheries areas)

the r	Red List Assessment (using evised 2001 IUCN system), (3) one of the following:	3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category
	Extinct (EX)	
	Extinct in the Wild (EW)	
	Critically Endangered (CR)	
	Endangered (EN)	
	Vulnerable (VU)	
X	Near Threatened (NT)	
	Least Concern (LC)	
	Data Deficient (DD)	
	Not Evaluated (NE)	
ALL listed 4. Ra ra wi kr	the criteria, subcriteria and sud in the box provided. ationale for the Red List Assunge information were used, in hat criteria were nearly met an nown. Use additional sheets if	egories is selected (i.e. CR, EN or VU) then ab-subcriteria met for that category, must be sessment (Including whatever population or ferences, assumptions, etc. For NT specify and for DD specify what little information is necessary.)

Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 3 May 2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):
a. Taxonomy (any taxonomic notes of relevance - optional)
b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
Pacific seasonally dry lowland tropical forest of Mexico: Oaxaca, Guerrero, Michoacan, Colima, Jalisco,

c. Population (for example, population size, abundance (rare, scarce, common, etc.), number and size of subpopulations if known, number of locations and degree of fragmentation)
d. Habitat and Ecology (including particulars about breeding ecology if
relevant)
Seasonally dry tropical forest: little known of ecology in general and ability to
regenerated in disturbed dry forests area in particular.
Habitats Authority:
1.5 Subtropical/Tropical Dry Forest
e. Threats (the main threats to the species, and if known, the severity
and extent)
Fragmentation and conversion of Mesoamerican seasonally dry tropical forest.
Throat Author
Threat Auth:
1.1. Agriculture
1.1.1. Crops
1.1.1.1. Shifting agriculture
1.1.1.2. Small-holder farming
1.3.3 Wood
1.3.3.1 Small scale subsistence
1.1.4 Livestock
1.1.4.2 Small holder

national legislation)
Known from the Chamela-Cuixmala Biosphere Reserve in Jalisco, Mexico
g. Utilization
11. Literature References (cited in full) used for the assessment and documentation
McVaugh, R & Rzedowski, J. (1965) Synopsis of the Genus <i>Bursera</i> L. in western Mexico, with notes on the material of <i>Bursera</i> collected by Sessé & Mocino <i>Kew Bulletin</i> 18 (2) 317-384
w ³ Tropicos (2005). Missouri Botanic Gardens, http://mobot.org/W3T .
Lott, E.J. (in prep) Listado Anotado De Las Plantas Vasculares De Chamela- Cuixmala
Gordon, JE; Hawthorne, WD; Reyes-García, R; Sandoval, G; Barrance, AJ (2004) Assessing Landscapes: A case study of tree and shrub diversity in the seasonally dry tropical forests of Oaxaca, Mexico and southern Honduras. <i>Biological Conservation</i> 117, 449-442
Seasonal/Dry forest conversion and fragmentation:
Trejo, I. & R. Dirzo, (2000) Deforestation of seasonally dry tropical forest: a national and local analysis in Mexico. <i>Biological Conservation</i> 94(2): p. 133-142.

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(please complete one questionnaire per taxon, extra sheets may be used)

1a. Scientific name (including authority details):		
Bursera laxiflora S Watson		
1b. Synonym/s (if there has been a taxonomic change in the last 5 years or if widely used)		
1c. English Common Name (if known)		
(
1d. Other Common Names (if known ar	nd state language)	
Torote Prieto (Spanish)	and the state of t	
2a. Order	2b. Family	
Sapindales	Burseraceae	
3. Distribution (describe the range in ter subcountry units e.g. states, provinces, e		
name/s of the lakes, river systems, etc. it names of estuaries, territorial waters, FA	occurs in; for a marine taxon use	
Marian Baia California Canana Cinala		
Mexico: Baja California, Sonora, Sinaloa	a	

the r	Red List Assessment (using revised 2001 IUCN system), (3) one of the following:	3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category
	Extinct (EX)	
	Extinct in the Wild (EW)	
	Critically Endangered (CR)	
	Endangered (EN)	
	Vulnerable (VU)	
Х	Near Threatened (NT)	
	Least Concern (LC)	
	Data Deficient (DD)	
	Not Evaluated (NE)	
ALL listed	the criteria, subcriteria and sud in the box provided. ationale for the Red List Assume information were used, in that criteria were nearly met an anown. Use additional sheets if	egories is selected (i.e. CR, EN or VU) then ab-subcriteria met for that category, must be sessment (Including whatever population or ferences, assumptions, etc. For NT specify ad for DD specify what little information is necessary.)

Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 3 May 2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):
a. Taxonomy (any taxonomic notes of relevance - optional)
b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
Mexico: Baja California, Sonora, Sinaloa

common, etc.), number and size of subpopulations if known, number of locations and degree of fragmentation)
d. Habitat and Ecology (including particulars about breeding ecology if relevant)
Seasonally dry tropical forest, including scrub of xeric hillsides Habitats Authority:
1.5 Subtropical/Tropical Dry Forest
3.5. Subtropical/Tropical Dry Scrubland
e. Threats (the main threats to the species, and if known, the severity
• • • • • • • • • • • • • • • • • • • •
and extent) Fragmentation and conversion of Mesoamerican seasonally dry tropical forest.
and extent) Fragmentation and conversion of Mesoamerican seasonally dry tropical forest. Threat Auth:
and extent) Fragmentation and conversion of Mesoamerican seasonally dry tropical forest. Threat Auth: 1.1. Agriculture 1.1.1. Crops
and extent) Fragmentation and conversion of Mesoamerican seasonally dry tropical forest. Threat Auth: 1.1. Agriculture 1.1.1. Crops 1.1.1.1. Shifting agriculture
and extent) Fragmentation and conversion of Mesoamerican seasonally dry tropical forest. Threat Auth: 1.1. Agriculture 1.1.1. Crops
and extent) Fragmentation and conversion of Mesoamerican seasonally dry tropical forest. Threat Auth: 1.1. Agriculture 1.1.1. Crops 1.1.1.1. Shifting agriculture 1.1.1.2. Small-holder farming 1.3.3 Wood
and extent) Fragmentation and conversion of Mesoamerican seasonally dry tropical forest. Threat Auth: 1.1. Agriculture 1.1.1. Crops 1.1.1.1. Shifting agriculture 1.1.2. Small-holder farming
and extent) Fragmentation and conversion of Mesoamerican seasonally dry tropical forest. Threat Auth: 1.1. Agriculture 1.1.1. Crops 1.1.1.1. Shifting agriculture 1.1.2. Small-holder farming 1.3.3 Wood 1.3.3 T Small scale subsistence 1.1.4 Livestock
and extent) Fragmentation and conversion of Mesoamerican seasonally dry tropical forest. Threat Auth: 1.1. Agriculture 1.1.1. Crops 1.1.1.1. Shifting agriculture 1.1.2. Small-holder farming 1.3.3 Wood 1.3.3 T Small scale subsistence
and extent) Fragmentation and conversion of Mesoamerican seasonally dry tropical forest. Threat Auth: 1.1. Agriculture 1.1.1. Crops 1.1.1.1. Shifting agriculture 1.1.2. Small-holder farming 1.3.3 Wood 1.3.3 T Small scale subsistence 1.1.4 Livestock
and extent) Fragmentation and conversion of Mesoamerican seasonally dry tropical forest. Threat Auth: 1.1. Agriculture 1.1.1. Crops 1.1.1.1. Shifting agriculture 1.1.2. Small-holder farming 1.3.3 Wood 1.3.3 T Small scale subsistence 1.1.4 Livestock
and extent) Fragmentation and conversion of Mesoamerican seasonally dry tropical forest. Threat Auth: 1.1. Agriculture 1.1.1. Crops 1.1.1.1. Shifting agriculture 1.1.2. Small-holder farming 1.3.3 Wood 1.3.3.1 Small scale subsistence 1.1.4 Livestock 1.1.4.2 Small holder

g. Utilization
11. Literature References (cited in full) used for the assessment and documentation
Fishbein, M., Wilson, R.K., Yetman, D.A., Jenkins, P., & Martin, P.S. (1998).
Annotated list of Río Mayo vascular plants. In <i>Gentry's Río Mayo Plants: The tropical deciduous forest and environs of northwest Mexico.</i> eds P.S. Martin, D.A. Yetman,
M. Fishbien, P. Jenkins, T.R. van Devender & R.K. Wilson, pp. 167-522. University of Arizona Press, Tuscon.
McVaugh, R & Rzedowski, J. (1965) Synopsis of the Genus <i>Bursera</i> L. in western
Mexico, with notes on the material of <i>Bursera</i> collected by Sessé & Mocino <i>Kew Bulletin</i> 18 (2) 317-384
w³Tropicos (2005). Missouri Botanic Gardens, http://mobot.org/W3T .
Seasonal/Dry forest conversion and fragmentation:
Trejo, I. & R. Dirzo, (2000) Deforestation of seasonally dry tropical forest: a national and local analysis in Mexico. <i>Biological Conservation</i> 94(2): p. 133-142.

Questionnaire (please complete one questionnaire pe	er taxon, extra sheets may be used)
1a. Scientific name (including authority	details):
Bursera stenophylla Sprague & L. Riley	
1b. Synonym/s (if there has been a taxo widely used)	onomic change in the last 5 years or if
1c. English Common Name (if known)	
1d. Other Common Names (if known ar	nd state language)
2a. Order	2b. Family
Sapindales	Burseraceae
3. Distribution (describe the range in tersubcountry units e.g. states, provinces, ename/s of the lakes, river systems, etc. it names of estuaries, territorial waters, FA	rms of countries of occurrence, etc.; for an inland water taxon use the t occurs in; for a marine taxon use

the r	Red List Assessment (using revised 2001 IUCN system), (3) one of the following:	3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category		
	Extinct (EX)			
	Extinct in the Wild (EW)			
	Critically Endangered (CR)			
	Endangered (EN)			
	Vulnerable (VU)			
Х	Near Threatened (NT)			
	Least Concern (LC)			
	Data Deficient (DD)			
	Not Evaluated (NE)			
	 Note: If one of the threatened categories is selected (i.e. CR, EN or VU) then ALL the criteria, subcriteria and sub-subcriteria met for that category, must be listed in the box provided. 4. Rationale for the Red List Assessment (Including whatever population or range information were used, inferences, assumptions, etc. For NT specify what criteria were nearly met and for DD specify what little information is known. Use additional sheets if necessary.) 			
ALL listed	the criteria, subcriteria and sud in the box provided. ationale for the Red List Assunge information were used, in hat criteria were nearly met an nown. Use additional sheets if	ressment (Including whatever population or ferences, assumptions, etc. For NT specify and for DD specify what little information is		

Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 3 May 2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):
a. Taxonomy (any taxonomic notes of relevance - optional)
b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
Mexico: Sinaloa, Sonora, Chihuahua

c. Population (for example, population size, abundance (rare, scarce, common, etc.), number and size of subpopulations if known, number of	
locations and degree of fragmentation)	
d. Habitat and Ecology (including particulars about breeding ecology if relevant)	
Habitats Authority:	
1.5 Subtropical/Tropical Dry Forest	
3.5. Subtropical/Tropical Dry Scrubland	
e. Threats (the main threats to the species, and if known, the severity and extent)	
Fragmentation and conversion of Mesoamerican seasonally dry tropical fore	est.
Threat Auth:	
1.1. Agriculture	
1.1.1. Crops	
1.1.1.1. Shifting agriculture	
1.1.1.2. Small-holder farming	
1.3.3 Wood	
1.3.3.1 Small scale subsistence	
1.1.4 Livestock	
1.1.4.2 Small holder	
f. Conservation Actions (including presence in protected areas and	
national legislation)	$\overline{}$

g. Utilization			
	Wood used locally for utensils		
	11. Literature References (cited in full) used for the assessment and documentation		
	w³Tropicos (2005). Missouri Botanic Gardens, http://mobot.mobot.org/W3T .		
	Fishbein, M., Wilson, R.K., Yetman, D.A., Jenkins, P., & Martin, P.S. (1998). Annotated list of Río Mayo vascular plants. In <i>Gentry's Río Mayo Plants: The tropical deciduous forest and environs of northwest Mexico</i> . eds P.S. Martin, D.A. Yetman, M. Fishbien, P. Jenkins, T.R. van Devender & R.K. Wilson, pp. 167-522. University of Arizona Press, Tuscon.		
	Seasonal/Dry forest conversion and fragmentation:		
	Trejo, I. & R. Dirzo, (2000) Deforestation of seasonally dry tropical forest: a national and local analysis in Mexico. <i>Biological Conservation</i> 94(2): p. 133-142.		

Questionnaire

(please complete one questionnaire per taxon, extra sheets may be used)

1a. Scientific name (including authority details):		
Forchhammeria lanceolata Standl.		
1b. Synonym/s (if there has been a taxonomic change in the last 5 years or if widely used)		
1c. English Common Name (if known)		
1d. Other Common Names (if known and state language)		
2a. Order	2b. Family	
Capparidales	Capparidaceae	
3. Distribution (describe the range in terms of countries of occurrence, subcountry units e.g. states, provinces, etc.; for an inland water taxon use the name/s of the lakes, river systems, etc. it occurs in; for a marine taxon use names of estuaries, territorial waters, FAO fisheries areas)		
Mexico: Jalisco, Guerrero, Oaxaca		

the r	Red List Assessment (using revised 2001 IUCN system), (3) one of the following:	3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category
	Extinct (EX)	
	Extinct in the Wild (EW)	
	Critically Endangered (CR)	
	Endangered (EN)	
	Vulnerable (VU)	
Х	Near Threatened (NT)	
	Least Concern (LC)	
	Data Deficient (DD)	
	Not Evaluated (NE)	
ALL listed	the criteria, subcriteria and sud in the box provided. ationale for the Red List Assunge information were used, in hat criteria were nearly met an nown. Use additional sheets if	egories is selected (i.e. CR, EN or VU) then ab-subcriteria met for that category, must be sessment (Including whatever population or ferences, assumptions, etc. For NT specify ad for DD specify what little information is necessary.)

Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 4 May 2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
10. Brief notes i.e. a short narrative, on the topics below to complement the
information entered above or on the Authority Files in Annex 1 (use additional sheets if required):
a. Taxonomy (any taxonomic notes of relevance - optional)
b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
Mexico: Jalisco, Guerrero, Oaxaca

c. Population (for example, population size, abundance (rare, scarce, common, etc.), number and size of subpopulations if known, number of locations and degree of fragmentation)
d. Habitat and Ecology (including particulars about breeding ecology if relevant)
Seasonally dry tropical forest: also found in old field successions.
Habitats Authority:
1.5 Subtropical/Tropical Dry Forest
e. Threats (the main threats to the species, and if known, the severity and extent)
e. Threats (the main threats to the species, and if known, the severity and extent) Fragmentation and conversion of Mesoamerican seasonally dry tropical forest.
and extent) Fragmentation and conversion of Mesoamerican seasonally dry tropical forest. Threat Auth:
and extent) Fragmentation and conversion of Mesoamerican seasonally dry tropical forest. Threat Auth: 1.1. Agriculture
and extent) Fragmentation and conversion of Mesoamerican seasonally dry tropical forest. Threat Auth: 1.1. Agriculture 1.1.1. Crops 1.1.1.1. Shifting agriculture
and extent) Fragmentation and conversion of Mesoamerican seasonally dry tropical forest. Threat Auth: 1.1. Agriculture 1.1.1. Crops
and extent) Fragmentation and conversion of Mesoamerican seasonally dry tropical forest. Threat Auth: 1.1. Agriculture 1.1.1. Crops 1.1.1.1. Shifting agriculture 1.1.1.2. Small-holder farming 1.3.3 Wood
and extent) Fragmentation and conversion of Mesoamerican seasonally dry tropical forest. Threat Auth: 1.1. Agriculture 1.1.1. Crops 1.1.1.1. Shifting agriculture 1.1.1.2. Small-holder farming
and extent) Fragmentation and conversion of Mesoamerican seasonally dry tropical forest. Threat Auth: 1.1. Agriculture 1.1.1. Crops 1.1.1.1. Shifting agriculture 1.1.2. Small-holder farming 1.3.3 Wood 1.3.3.1 Small scale subsistence 1.1.4 Livestock
and extent) Fragmentation and conversion of Mesoamerican seasonally dry tropical forest. Threat Auth: 1.1. Agriculture 1.1.1. Crops 1.1.1.1. Shifting agriculture 1.1.1.2. Small-holder farming 1.3.3 Wood 1.3.3 T Small scale subsistence
and extent) Fragmentation and conversion of Mesoamerican seasonally dry tropical forest. Threat Auth: 1.1. Agriculture 1.1.1. Crops 1.1.1.1. Shifting agriculture 1.1.1.2. Small-holder farming 1.3.3 Wood 1.3.3.1 Small scale subsistence 1.1.4 Livestock 1.1.4.2 Small holder
and extent) Fragmentation and conversion of Mesoamerican seasonally dry tropical forest. Threat Auth: 1.1. Agriculture 1.1.1. Crops 1.1.1.1. Shifting agriculture 1.1.2. Small-holder farming 1.3.3 Wood 1.3.3.1 Small scale subsistence 1.1.4 Livestock
and extent) Fragmentation and conversion of Mesoamerican seasonally dry tropical forest. Threat Auth: 1.1. Agriculture 1.1.1. Crops 1.1.1.1. Shifting agriculture 1.1.1.2. Small-holder farming 1.3.3 Wood 1.3.3.1 Small scale subsistence 1.1.4 Livestock 1.1.4.2 Small holder

g. Utilization
11. Literature References (cited in full) used for the assessment and documentation
3 (000-) - 11 - 12 - 13 - 14 - 14 - 14 - 14 - 14 - 14 - 14
w ³ Tropicos (2005). Missouri Botanic Gardens, http://mobot.mobot.org/W3T.
Gordon, JE; Hawthorne, WD; Reyes-García, R; Sandoval, G; Barrance, AJ (2004) Assessing Landscapes: A case study of tree and shrub diversity in the seasonally dry tropical forests of Oaxaca, Mexico and southern Honduras. <i>Biological Conservation</i> 117, 449-442
Seasonal/Dry forest conversion and fragmentation:
Trejo, I. & R. Dirzo, (2000) Deforestation of seasonally dry tropical forest: a national and local analysis in Mexico. <i>Biological Conservation</i> 94(2): p. 133-142.

Questionnaire

(please complete one questionnaire per taxon, extra sheets may be used)

1a. Scientific name (including authority	details):
Maytenus belizensis Standl.	
1b. Synonym/s (if there has been a taxo widely used)	onomic change in the last 5 years or if
1c. English Common Name (if known)	
1d. Other Common Names (if known a	nd state language)
2a. Order	2b. Family
Celastrales	Celastraceae
3. Distribution (describe the range in te subcountry units e.g. states, provinces, ename/s of the lakes, river systems, etc. in names of estuaries, territorial waters, FA	etc.; for an inland water taxon use the toccurs in; for a marine taxon use
Tiarries of estuaries, territorial waters, 17	O fisheries areas)

the r	Red List Assessment (using revised 2001 IUCN system), (3) one of the following:	3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category
	Extinct (EX)	
	Extinct in the Wild (EW)	
	Critically Endangered (CR)	
	Endangered (EN)	
	Vulnerable (VU)	
Х	Near Threatened (NT)	
	Least Concern (LC)	
	Data Deficient (DD)	
	Not Evaluated (NE)	
ALL listed	the criteria, subcriteria and sud in the box provided. ationale for the Red List Assume information were used, in that criteria were nearly met an anown. Use additional sheets if	egories is selected (i.e. CR, EN or VU) then ab-subcriteria met for that category, must be sessment (Including whatever population or ferences, assumptions, etc. For NT specify and for DD specify what little information is necessary.)

Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 5 May 2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):
a. Taxonomy (any taxonomic notes of relevance - optional)
b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
Mexico: Campeche, Quintana Roo. Yucatán Belize

c. Population (for example, population size, abundance (rare, scarce,
common, etc.), number and size of subpopulations if known, number of
locations and degree of fragmentation)
d Habitet and Factory (including particulars about breading acclass, if
d. Habitat and Ecology (including particulars about breeding ecology if relevant)
Habitats Authority:
Habitato Admonty.
1.5 Subtropical/Tropical Dry Forest
Threats (the main threats to the appairs and if known the appairs
e. Threats (the main threats to the species, and if known, the severity
and extent) Threat Auth:
1.1. Agriculture
1.1.1. Crops
1.1.1.1. Shifting agriculture
1.1.1.2. Small-holder farming
1.3.3 Wood
1.3.3.1 Small scale subsistence
1.1.4 Livestock
1.1.4 Livestock 1.1.4.2 Small holder
1.1.4.2 Small holder
f. Conservation Actions (including presence in protected areas and
national legislation)
Known from the Calakmul Biosphere Reserve, Campeche Mexico
q. Utilization
gi Ginzation

11. Literature References (cited in full) used for the assessment and documentation
Hawthorne, W H & Hughes C E (unpublished) <i>Draft annotated checklistr for seasonal forest of Quintana Roo, Mexico,</i> DFID
Martínez, E., Sousa, M., & Ramos Álvarez, C. H. (2001) Listados Florísticos de México: Región de Calakmul, Campeche. UNAM, Mexico City.
Seasonal/Dry forest conversion and fragmentation:
Trejo, I. & R. Dirzo, (2000) Deforestation of seasonally dry tropical forest: a national and local analysis in Mexico. <i>Biological Conservation</i> 94(2): p. 133-142.

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Ou	estion	naire

(please complete one questionnaire per taxon, extra sheets may be used)

1a. Scientific name (including authority details):	
Diospyros anisandra S.F. Blake	
1b. Synonym/s (if there has been a taxowidely used)	onomic change in the last 5 years or if
1c. English Common Name (if known)	
1d. Other Common Names (if known ar	nd state language)
2a. Order	2b. Family
Theales	Ebenaceae
3. Distribution (describe the range in tensubcountry units e.g. states, provinces, ename/s of the lakes, river systems, etc. it names of estuaries, territorial waters, FA	etc.; for an inland water taxon use the toccurs in; for a marine taxon use
Mexico: Campeche, Quintana Roo. Yuc Guatemala: Peten	,

the i	Red List Assessment (using revised 2001 IUCN system), (3) one of the following:	3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category
	Extinct (EX)	
	Extinct in the Wild (EW)	
	Critically Endangered (CR)	
	Endangered (EN)	
	Vulnerable (VU)	
Х	Near Threatened (NT)	
	Least Concern (LC)	
	Data Deficient (DD)	
	Not Evaluated (NE)	
ALL liste 4. R ra w kı	the criteria, subcriteria and sud in the box provided. ationale for the Red List Assume information were used, in that criteria were nearly met an anown. Use additional sheets if	
high peni fore:	Extent of occurrence is > 20 000km ² , and therefore does not meet criteria for higher status, but restricted to the three Mexican states of the Yucatán peninsula and Guatemala's Peten, probably in seasonal and semi-seasonal forest. Forest of this area are under threaten from the effects of colonization.	

Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 5 May 2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):
a. Taxonomy (any taxonomic notes of relevance - optional)
b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
Mexico: Campeche, Quintana Roo. Yucatán Guatemala: Peten

c. Population (for example, population size, abundance (rare, scarce,
common, etc.), number and size of subpopulations if known, number of
locations and degree of fragmentation)
d. Habitat and Ecology (including particulars about breeding ecology if
relevant)
1.5 Subtropical/Tropical Dry Forest
e. Threats (the main threats to the species, and if known, the severity
and extent)
Threat Auth:
1.1. Agriculture
1.1.1. Crops
1.1.1.1. Shifting agriculture
1.1.1.2. Small-holder farming
4.0.0.10/
1.3.3 Wood
1.3.3.1 Small scale subsistence
f. Conservation Actions (including presence in protected areas and
national legislation)
•
Known from the Calakmul Biosphere Reserve, Mexico
g. Utilization

11. Literature References (cited in full) used for the assessment and documentation
w³Tropicos (2005). Missouri Botanic Gardens, http://mobot.org/W3T .
Hawthorne, W H & Hughes C E (unpublished) <i>Draft annotated checklistr for seasonal forest of Quintana Roo, Mexico,</i> DFID
Martínez, E., Sousa, M., & Ramos Álvarez, C. H. (2001) Listados Florísticos de México: Región de Calakmul, Campeche. UNAM, Mexico City.
Seasonal/Dry forest conversion and fragmentation:
Trejo, I. & R. Dirzo, (2000) Deforestation of seasonally dry tropical forest: a national and local analysis in Mexico. <i>Biological Conservation</i> 94(2): p. 133-142.

Questionnaire (please complete one questionnaire per taxon, extra sheets may be used)		
1a. Scientific name (including authority	details):	
Diospyros cuneata Standl.		
1b. Synonym/s (if there has been a taxonomic change in the last 5 years or if widely used)		
1c. English Common Name (if known)		
1d. Other Common Names (if known and state language)		
2a. Order	2b. Family	
Theales	Ebenaceae	
3. Distribution (describe the range in terms of countries of occurrence, subcountry units e.g. states, provinces, etc.; for an inland water taxon use the name/s of the lakes, river systems, etc. it occurs in; for a marine taxon use names of estuaries, territorial waters, FAO fisheries areas)		
Mexico: Campeche, Quintana Roo. Yucatán		

	the r	Red List Assessment (using evised 2001 IUCN system), 3) one of the following:	3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category
		Extinct (EX)	
		Extinct in the Wild (EW)	
		Critically Endangered (CR)	
		Endangered (EN)	
		Vulnerable (VU)	
	Χ	Near Threatened (NT)	
Least Concern (LC) Data Deficient (DD) Not Evaluated (NE)			
 Note: If one of the threatened categories is selected (i.e. CR, EN or VU) then ALL the criteria, subcriteria and sub-subcriteria met for that category, must be listed in the box provided. 4. Rationale for the Red List Assessment (Including whatever population or range information were used, inferences, assumptions, etc. For NT specify what criteria were nearly met and for DD specify what little information is known. Use additional sheets if necessary.) 			
	Extent of occurrence is > 20 000km ² , and therefore does not meet criteria for higher status, but restricted to the three Mexican states of the Yucatán peninsula.		
	Forests of this area are under threat from the effects of colonization, it having been seen as 'frontier' ripe for development by its respective governments.		

Genuine change in status of species New or better information available			
Incorrect information used previously Taxonomic change affecting the species			
Previously incorrect application of the Red List Criteria			
6. Current Population Trend (tick (3) one of the following):			
Increasing Decreasing Stable X Unknown			
7. Date of Assessment (day/month/year): 5 May 2005			
8. Name/s of the Assessor/s			
J E Gordon			
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)			
(at loads two, and the hamb of the road blot hatherity)			
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):			
a. Taxonomy (any taxonomic notes of relevance - optional)			
b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)			
Mexico: Campeche, Quintana Roo. Yucatán			

c. Population (for example, population size, abundance (rare, scarce, common, etc.), number and size of subpopulations if known, number of
locations and degree of fragmentation)
d Habitat and Faalam (in aboding month of one about book discussion is
 d. Habitat and Ecology (including particulars about breeding ecology if relevant)
Habitats Authority:
1.5 Subtranical/Tranical Dry Forest
1.5 Subtropical/Tropical Dry Forest 3.5. Subtropical/Tropical Dry Scrubland
3.3. Gubiropical Pry Gerubiana
e. Threats (the main threats to the species, and if known, the severity
and extent)
Threat Auth:
1.1. Agriculture
1.1.1. Crops
1.1.1.1. Shifting agriculture
1.1.1.2. Small-holder farming
1.3.3 Wood
1.3.3.1 Small scale subsistence
f. Conservation Actions (including presence in protected areas and
national legislation)
g. Utilization
g. Utilization

11. Literature References (cited in full) used for the assessment and documentation
w ³ Tropicos (2005). Missouri Botanic Gardens, http://mobot.mobot.org/W3T .
Hawthorne, W H & Hughes C E (unpublished) <i>Draft annotated checklistr for seasonal forest of Quintana Roo, Mexico</i> , DFID
Seasonal/Dry forest conversion and fragmentation:
Trejo, I. & R. Dirzo, (2000) Deforestation of seasonally dry tropical forest: a national and local analysis in Mexico. <i>Biological Conservation</i> 94(2): p. 133-142.

Questionnaire (places complete and questionnaire per	or tayon, oytra choote may be used)			
(please complete one questionnaire per taxon, extra sheets may be used)				
1a. Scientific name (including authority	1a. Scientific name (including authority details):			
Forchhammeria watsonii Rose				
1b. Synonym/s (if there has been a taxonomic change in the last 5 years or if widely used)				
1c. English Common Name (if known)				
1d. Other Common Names (if known ar	nd state language)			
2a. Order	2b. Family			
Capparidales	Capparidaceae			
3. Distribution (describe the range in terms of countries of occurrence, subcountry units e.g. states, provinces, etc.; for an inland water taxon use the name/s of the lakes, river systems, etc. it occurs in; for a marine taxon use names of estuaries, territorial waters, FAO fisheries areas)				
Mexico: Sonora, Sinaloa, Baja California	a Sur			

the r	Red List Assessment (using evised 2001 IUCN system), (3) one of the following:	3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category
	Extinct (EX)	
	Extinct in the Wild (EW)	
	Critically Endangered (CR)	
	Endangered (EN)	
	Vulnerable (VU)	
Х	Near Threatened (NT)	
	Least Concern (LC)	
	Data Deficient (DD)	
	Not Evaluated (NE)	
 Note: If one of the threatened categories is selected (i.e. CR, EN or VU) then ALL the criteria, subcriteria and sub-subcriteria met for that category, must be listed in the box provided. 4. Rationale for the Red List Assessment (Including whatever population or range information were used, inferences, assumptions, etc. For NT specify what criteria were nearly met and for DD specify what little information is known. Use additional sheets if necessary.) 		
ra w kr	nge information were used, in hat criteria were nearly met an nown. Use additional sheets if	ferences, assumptions, etc. For NT specify d for DD specify what little information is

Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 3 May 2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):
a. Taxonomy (any taxonomic notes of relevance - optional)
b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
Mexico: Sonora, Sinaloa, Baja California Sur

c. Population (for example, population size, abundance (rare, scarce, common, etc.), number and size of subpopulations if known, number of locations and degree of fragmentation)	
Population likely to be highly fragmented given nature of Seasonally dry tropical forest within its range	al
d. Habitat and Ecology (including particulars about breeding ecology if relevant)	
1.5 Subtropical/Tropical Dry Forest 3.5. Subtropical/Tropical Dry Scrubland	
e. Threats (the main threats to the species, and if known, the severity and extent)	
Fragmentation and conversion of Mesoamerican seasonally dry tropical forest.	
Threat Auth: 1.1. Agriculture 1.1.1. Crops 1.1.1.1. Shifting agriculture	
1.1.1.2. Small-holder farming	
f. Conservation Actions (including presence in protected areas and national legislation)	
Drogonog in protected groop not established	
Presence in protected areas not established	

Q	uestion	naire

(please complete one questionnaire per taxon, extra sheets may be used)

1a. Scientific name (including authority details):	
Erythroxylum bequaertii Standl.	
1b. Synonym/s (if there has been a taxonomic change in the last 5 years or if widely used)	
1c. English Common Name (if known)	
1d. Other Common Names (if known ar	nd state language)
,	,
2a. Order	2b. Family
LINALES	Erythroxylaceae
3. Distribution (describe the range in terms of countries of occurrence, subcountry units e.g. states, provinces, etc.; for an inland water taxon use the name/s of the lakes, river systems, etc. it occurs in; for a marine taxon use names of estuaries, territorial waters, FAO fisheries areas)	
Mexico: Campeche, Quintana Roo, Yucatán Guatemala (Petén)	

the	Red List Assessment (using e revised 2001 IUCN system), (3) one of the following:	3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category
	Extinct (EX)	
	Extinct in the Wild (EW)	
	Critically Endangered (CR)	
	Endangered (EN)	
	Vulnerable (VU)	
Х	Near Threatened (NT)	
	Least Concern (LC)	
	Data Deficient (DD)	
	Not Evaluated (NE)	
 Note: If one of the threatened categories is selected (i.e. CR, EN or VU) then ALL the criteria, subcriteria and sub-subcriteria met for that category, must be listed in the box provided. 4. Rationale for the Red List Assessment (Including whatever population or range information were used, inferences, assumptions, etc. For NT specify what criteria were nearly met and for DD specify what little information is known. Use additional sheets if necessary.) 		
hiç	her status, but restricted to the	m ² , and therefore does not meet criteria for three Mexican states of the Yucatán from 1959 from the Guatemalan Petén
		at from the effects of colonization, it having elopment by its respective governments.

Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 6 May 2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):
a. Taxonomy (any taxonomic notes of relevance - optional)
b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
Mexico: Campeche, Quintana Roo, Yucatán Guatemala (Petén)

c. Population (for example, population size, abundance (rare, scarce, common, etc.), number and size of subpopulations if known, number of locations and degree of fragmentation)
d. Habitat and Ecology (including particulars about breeding ecology if relevant)
Semi seasonal tropical forest and scrub Habitats Authority:
1.5 Subtropical/Tropical Dry Forest
Found in disturbed sites, which reduces conservation concern for this species.
e. Threats (the main threats to the species, and if known, the severity and extent)
Fragmentation and conversion of Mesoamerican seasonally dry tropical forest. Threat Auth:
1.1. Agriculture 1.1.1. Crops
1.1.1.1. Shifting agriculture
1.1.1.2. Small-holder farming
1.3.3 Wood 1.3.3.1 Small scale subsistence
f. Conservation Actions (including presence in protected areas and
national legislation)
Reported from the region of the Calakmul Biosphere Reserve

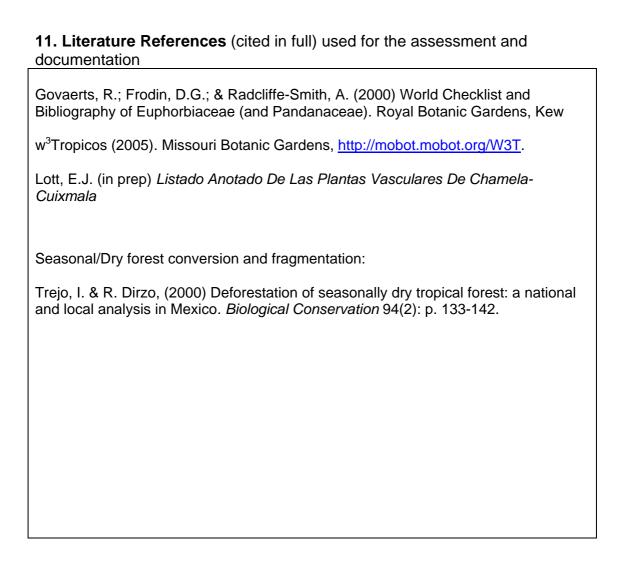
g. Utilization
11. Literature References (cited in full) used for the assessment and documentation
w³Tropicos (2005). Missouri Botanic Gardens, http://mobot.mobot.org/W3T .
Martínez, E., Sousa, M., & Ramos Álvarez, C. H. (2001) Listados Florísticos de México: Región de Calakmul, Campeche. UNAM, Mexico City.
Hawthorne, W H & Hughes C E (unpublished) <i>Draft annotated checklistr for seasonal forest of Quintana Roo, Mexico,</i> DFID
Seasonal/Dry forest conversion and fragmentation:
Trejo, I. & R. Dirzo, (2000) Deforestation of seasonally dry tropical forest: a national and local analysis in Mexico. <i>Biological Conservation</i> 94(2): p. 133-142.

(please complete one questionnaire per taxon, extra sheets may be used)		
1a. Scientific name (including authority details):		
Acalypha multiflora (Standl.) RadclSm.		
1b. Synonym/s (if there has been a taxonomic change in the last 5 years or if widely used)		
1c. English Common Name (if known)		
1d. Other Common Names (if known and state language)		
,	<u> </u>	
	<u> </u>	
2a. Order	2b. Family	
2a. Order Euphorbiales	2b. Family Euphorbiaceae	
	Euphorbiaceae rms of countries of occurrence, etc.; for an inland water taxon use the t occurs in; for a marine taxon use	

 3a. Red List Assessment (using the revised 2001 IUCN system), tick (3) one of the following: 3b. Fill in the Red List Criteria met (expression A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category 	.g.	
Extinct (EX)		
Extinct in the Wild (EW)		
Critically Endangered (CR)		
Endangered (EN)		
Vulnerable (VU)		
X Near Threatened (NT)		
Least Concern (LC)		
Data Deficient (DD)		
Not Evaluated (NE)		
 Note: If one of the threatened categories is selected (i.e. CR, EN or VU) then ALL the criteria, subcriteria and sub-subcriteria met for that category, must be listed in the box provided. 4. Rationale for the Red List Assessment (Including whatever population or range information were used, inferences, assumptions, etc. For NT specify what criteria were nearly met and for DD specify what little information is known. Use additional sheets if necessary.) 		
Extent of occurrence inferred to be > 20 000 km ² . Limited to the seasona semi-seasonal tropical forest of Mexico (Sonora, Nayarit, Jalisco, Morelo		
This forest type is highly fragmented.		
Adaptability of this small tree to disturbance is not known.		

Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 4 May 2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):
a. Taxonomy (any taxonomic notes of relevance - optional)
b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
Mexico: Sonora, Jalisco, Nayarit, Morelos.

c. Population (for example, population size, abundance (rare, scarce, common, etc.), number and size of subpopulations if known, number of locations and degree of fragmentation)	
d. Habitat and Ecology (including particulars about breeding ecology if relevant)	
Seasonal and semi-seasonal tropical forest	
Habitats Authority:	
1.5 Subtropical/Tropical Dry Forest	
e. Threats (the main threats to the species, and if known, the severity and extent)	
Fragmentation and conversion of Mesoamerican seasonal tropical forest.	
Threat Auth: 1.1. Agriculture 1.1.1. Crops 1.1.1.1. Shifting agriculture 1.1.2. Small-holder farming	
1.3.3 Wood 1.3.3.1 Small scale subsistence	
1.1.4 Livestock 1.1.4.2 Small holder	
f. Conservation Actions (including presence in protected areas and national legislation)	
Present in the Chamela-Cuixmala Biosphere Reserve	
g. Utilization	

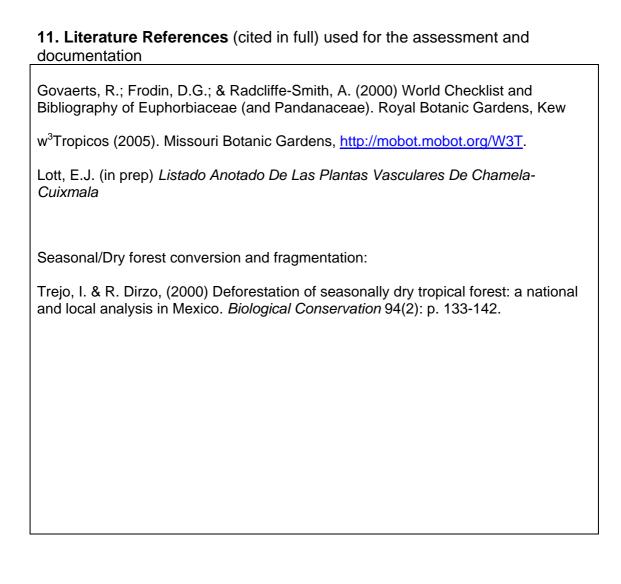


Questionnaire (please complete one questionnaire pe	er taxon, extra sheets may be used)	
1a. Scientific name (including authority details):		
Astrocasia peltata Standl.		
1b. Synonym/s (if there has been a taxo widely used)	nomic change in the last 5 years or if	
1c. English Common Name (if known)		
1d. Other Common Names (if known an	1d. Other Common Names (if known and state language)	
2a. Order	2b. Family	
Euphorbiales		
Euphorbialoo	Euphorbiaceae	
3. Distribution (describe the range in ter subcountry units e.g. states, provinces, e name/s of the lakes, river systems, etc. it names of estuaries, territorial waters, FA	rms of countries of occurrence, etc.; for an inland water taxon use the coccurs in; for a marine taxon use	

3a. Red List Assessment (using the revised 2001 IUCN system), tick (3) one of the following:		3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category
	Extinct (EX)	
	Extinct in the Wild (EW)	
	Critically Endangered (CR)	
	Endangered (EN)	
	Vulnerable (VU)	
X	Near Threatened (NT)	
	Least Concern (LC)	
	Data Deficient (DD)	
	Not Evaluated (NE)	
 Note: If one of the threatened categories is selected (i.e. CR, EN or VU) then ALL the criteria, subcriteria and sub-subcriteria met for that category, must be listed in the box provided. 4. Rationale for the Red List Assessment (Including whatever population or range information were used, inferences, assumptions, etc. For NT specify what criteria were nearly met and for DD specify what little information is known. Use additional sheets if necessary.) 		
Extent of occurrence inferred to be > 20 000 km ² . Limited to the seasonally dry tropical forest in a limited area on west coast of Mexico.		
This forest type is highly fragmented.		
Adaptability of species to disturbance is not known.		

Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 4 May 2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):
a. Taxonomy (any taxonomic notes of relevance - optional)
b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
Mexico: Sinaloa, Nayarit, Jalisco

c. Population (for example, population size, abundance (rare, scarce,
common, etc.), number and size of subpopulations if known, number of
locations and degree of fragmentation)
d. Habitat and Ecology (including particulars about breeding ecology if
relevant)
Seasonally dry tropical forest
Habitats Authority:
1.5 Subtropical/Tropical Dry Forest
e. Threats (the main threats to the species, and if known, the severity
and extent)
Fragmentation and conversion of Mesoamerican seasonally dry tropical forest.
Threat Auth:
1.1. Agriculture
1.1.1. Crops
1.1.1.1. Shifting agriculture
1.1.1.2. Small-holder farming
Transfer farming
f. Conservation Actions (including presence in protected areas and
national legislation)
national legislation)
Dragant in the Chamala Cuivmala Bisanhara Basanya of Isliana Mavica
Present in the Chamela-Cuixmala Biosphere Reserve of Jalisco, Mexico.
g. Utilization



(blease comblete one duestionnaire be	r taxon, extra sheets may be used)
1a. Scientific name (including authority	•
	,
Bernardia nicaraguensis Standl. & L.O.	vviiliams
1b. Synonym/s (if there has been a taxo widely used)	nomic change in the last 5 years or if
1c. English Common Name (if known)	
1d. Other Common Names (if known an	nd state language)
2a. Order	2b. Family
2a. Order Euphorbiales	2b. Family Euphorbiaceae
	Euphorbiaceae ms of countries of occurrence, tc.; for an inland water taxon use the occurs in; for a marine taxon use

3a. Red List Assessment (using the revised 2001 IUCN system), tick (3) one of the following:	3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category		
Extinct (EX)			
Extinct in the Wild (EW)			
Critically Endangered (CR)			
Endangered (EN)			
Vulnerable (VU)			
X Near Threatened (NT)			
Least Concern (LC)			
Data Deficient (DD)			
Not Evaluated (NE)			
 ALL the criteria, subcriteria and slisted in the box provided. 4. Rationale for the Red List As range information were used, what criteria were nearly met a known. Use additional sheets 			
	be > 20 000 km ² . Limited to the seasonal dry : Honduras, Nicaragua and Costa Rica.		
This forest type is highly fragmen	ted.		
Adaptability of this small tree to d	isturbance is not known.		

Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 4 May 2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):
a. Taxonomy (any taxonomic notes of relevance - optional)
b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
Honduras (Comayagua) Nicaragua (Pacific Iowlands and foothills) Costa Rica (Guanacaste)

c. Population (for example, population size, abundance (rare, scarce, common, etc.), number and size of subpopulations if known, number of locations and degree of fragmentation)
d. Habitat and Ecology (including particulars about breeding ecology if
relevant)
Seasonally dry tropical forest
Habitats Authority:
1.5 Subtropical/Tropical Dry Forest
e. Threats (the main threats to the species, and if known, the severity
and extent)
Fragmentation and conversion of Mesoamerican seasonal tropical forest.
Threat Auth:
1.1. Agriculture
1.1.1. Crops
1.1.1.1. Shifting agriculture
1.1.1.2. Small-holder farming
f. Conservation Actions (including presence in protected areas and
/ VI I

Collected in Cuanagesta Consequation Area, Costs Disc and Dargus Naciona

national legislation)

Volcán Masaya, Nicaragua (the latter not since 1978)
g. Utilization

11. Literature References (cited in full) used for the assessment and documentation

w³Tropicos (2005). Missouri Botanic Gardens, http://mobot.mobot.org/W3T.

Janzen, D.H. & Liesner, R. (1980) Annotated checklist of plants of lowland Guanacaste Province, Costa Rica, exclusive of grasses and non-vascular cryptograms. *Brenesia*, 18, 15-90.

Steven, W.D.; Ulloa Ulloa, C.; Pool, A. & Montiel, O.M. (2001) Flora de Nicaragua, Vol 1. Missouri Botanical Gardens, St Louis.

Govaerts, R.; Frodin, D.G.; & Radcliffe-Smith, A. (2000) World Checklist and Bibliography of Euphorbiaceae (and Pandanaceae). Royal Botanic Gardens, Kew

Seasonal/Dry forest conversion and fragmentation:

Janzen, D.H., (1988) *Tropical dry forests: the most endangered major tropical ecosystems*, in Biodiversity, E.O. Wilson, Editor., National Academy Press: Washington DC, USA. p. 130-137.

Murphy, P.G. & A.E. Lugo, (1995) *Dry Forests of Central America and the Caribbean*, in Seasonally Dry Tropical Forests, S.H. Bullock, H.A. Mooney, and E. Medina, Editors. Cambridge University Press: Cambridge. p. 9-34.

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(please complete one questionnaire per taxon, extra sheets may be used)

onomic change in the last 5 years or if
nd state language)
2b. Family
Euphorbiaceae
rms of countries of occurrence, etc.; for an inland water taxon use the t occurs in; for a marine taxon use O fisheries areas)
,

3a. Red List Assessment (using the revised 2001 IUCN system), tick (3) one of the following:		3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category
	Extinct (EX)	
	Extinct in the Wild (EW)	
	Critically Endangered (CR)	
	Endangered (EN)	
	Vulnerable (VU)	
Х	Near Threatened (NT)	
	Least Concern (LC)	
	Data Deficient (DD)	
	Not Evaluated (NE)	
ALL listed 4. Ra ra wh	the criteria, subcriteria and sud in the box provided. ationale for the Red List Assume information were used, in that criteria were nearly met are nown. Use additional sheets if	• •
Exte	nt of occurrence inferred to be	e > 20 000 km².
Spec	cies of the seasonal dry tropic	al forest of SW Mexico
	forest type is highly fragmente nerate in disturbed areas in O	ed, although species has been observed to axacan dry tropical forest

Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 5 May 2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
 10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required): a. Taxonomy (any taxonomic notes of relevance - optional)
b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
Mexico: Jalisco, Guerrero, Oaxaca

c. Population (for example, population size, abundance (rare, scarce, common, etc.), number and size of subpopulations if known, number of locations and degree of fragmentation)
d Hebitet and Feelegy (including particulars about breading ecology if
d. Habitat and Ecology (including particulars about breeding ecology if relevant)
Seasonally dry tropical forest
Habitats Authority:
1.5 Subtropical/Tropical Dry Forest
e. Threats (the main threats to the species, and if known, the severity and extent)
Fragmentation and conversion of Mesoamerican seasonal tropical forest.
Fragmentation and conversion of Mexican tropical dry forest.
Threat Auth:
1.1. Agriculture 1.1.1. Crops
1.1.1.1. Shifting agriculture
1.1.1.2. Small-holder farming
f. Conservation Actions (including presence in protected areas and national legislation)
Not determined whether found within protected areas
g. Utilization

11. Literature References (cited in full) used for the assessment and documentation

w³Tropicos (2005). Missouri Botanic Gardens, http://mobot.org/W3T.

Salas-Morales, S.H., Saynes-Váquez, A., & Schibli, L. (2003) Flora de la costa de Oaxaca: lista florística de la región de Zimatán. *Boletín de la Sociedad Botánica Mexicana*, 72, 21-58.

Govaerts, R.; Frodin, D.G.; & Radcliffe-Smith, A. (2000) World Checklist and Bibliography of Euphorbiaceae (and Pandanaceae). Royal Botanic Gardens, Kew

Seasonal/Dry forest conversion and fragmentation:

Trejo, I. & R. Dirzo, (2000) Deforestation of seasonally dry tropical forest: a national and local analysis in Mexico. *Biological Conservation* 94(2): p. 133-142.

Questionnaire

(please complete one questionnaire per taxon, extra sheets may be used)

1a. Scientific name (including authority details):				
Jatropha gaumeri Greenm.				
1b. Synonym/s (if there has been a taxo widely used)	onomic change in the last 5 years or if			
1c. English Common Name (if known)				
1d. Other Common Names (if known ar	nd state language)			
2a. Order	2b. Family			
Euphorbiales	Euphorbiaceae			
3. Distribution (describe the range in terms of countries of occurrence, subcountry units e.g. states, provinces, etc.; for an inland water taxon use the name/s of the lakes, river systems, etc. it occurs in; for a marine taxon use names of estuaries, territorial waters, FAO fisheries areas)				
Mexico: Yucatán, Campeche, Quintana Guatemala (Peten) Belize	,			

the r	Red List Assessment (using evised 2001 IUCN system), (3) one of the following:	3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category				
	Extinct (EX)					
	Extinct in the Wild (EW)					
	Critically Endangered (CR)					
	Endangered (EN)					
	Vulnerable (VU)					
Х	Near Threatened (NT)					
	Least Concern (LC)					
	Data Deficient (DD)					
	Not Evaluated (NE)					
ALL listed 4. Ra ra w kr	 Note: If one of the threatened categories is selected (i.e. CR, EN or VU) then ALL the criteria, subcriteria and sub-subcriteria met for that category, must be listed in the box provided. 4. Rationale for the Red List Assessment (Including whatever population or range information were used, inferences, assumptions, etc. For NT specify what criteria were nearly met and for DD specify what little information is known. Use additional sheets if necessary.) 					
Extent of occurrence inferred to be > 20 000 km ² . However, limited to the Greater Yucatán where its native seasonal forests are under severe pressure from development						
Adap	otability of species to disturbar	nce is not known.				

Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 6 May 2005 8. Name/s of the Assessor/s
6. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
(at least two, and the name of the real Electricationty)
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):
a. Taxonomy (any taxonomic notes of relevance - optional)
b. Geographic Range (including mention of important sites, and if known
specify the extent of occurrence and area of occupancy) Mexico: Yucatán, Campeche, Quintana Roo Guatemala (Peten) Belize

c. Population (for example, population size, abundance (rare, scarce, common, etc.), number and size of subpopulations if known, number of locations and degree of fragmentation)
d. Habitat and Ecology (including particulars about breeding ecology if relevant)
Seasonally dry tropical forest
Fragmentation and conversion of Mexican tropical dry forest.
Habitats Authority:
1.5 Subtropical/Tropical Dry Forest
e. Threats (the main threats to the species, and if known, the severity and extent)
Fragmentation and conversion of Mesoamerican seasonally dry tropical forest.
Fragmentation and conversion of Mexican tropical dry forest.
Threat Auth: 1.1. Agriculture
1.1.1. Crops
1.1.1.1. Shifting agriculture 1.1.1.2. Small-holder farming
1.3.3 Wood 1.3.3.1 Small scale subsistence
1.1.4 Livestock 1.1.4.2 Small holder

f. Conservation Actions (including presence in protected areas and national legislation)

Known from the region of the Calakmul Biosphere Reserve, Campeche

g. Utilization
11. Literature References (cited in full) used for the assessment and documentation
w³Tropicos (2005). Missouri Botanic Gardens, http://mobot.org/W3T .
Hawthorne, W H & Hughes C E (unpublished) <i>Draft annotated checklist for seasonal forest of Quintana Roo, Mexico, DFID</i>
Govaerts, R.; Frodin, D.G.; & Radcliffe-Smith, A. (2000) World Checklist and Bibliography of Euphorbiaceae (and Pandanaceae). Royal Botanic Gardens, Kew
Martínez, E., Sousa, M., & Ramos Álvarez, C. H. (2001) Listados Florísticos de México: Región de Calakmul, Campeche. UNAM, Mexico City.
Seasonal/Dry forest conversion and fragmentation:
Trejo, I. & R. Dirzo, (2000) Deforestation of seasonally dry tropical forest: a national and local analysis in Mexico. <i>Biological Conservation</i> 94(2): p. 133-142.

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(please complete one questionnaire per taxon, extra sheets may be used)

1a. Scientific name (including authority	details):			
Sebastiania cornuta McVaugh				
1b. Synonym/s (if there has been a taxowidely used)	onomic change in the last 5 years or if			
1c. English Common Name (if known)				
1d. Other Common Names (if known a	nd state language)			
2a. Order	2b. Family			
Euphorbiales	Euphorbiaceae			
3. Distribution (describe the range in terms of countries of occurrence, subcountry units e.g. states, provinces, etc.; for an inland water taxon use the name/s of the lakes, river systems, etc. it occurs in; for a marine taxon use names of estuaries, territorial waters, FAO fisheries areas) Mexico: Chihuahua, Sonora, Sinaloa, Durango, Nayarit				

the r	Red List Assessment (using revised 2001 IUCN system), (3) one of the following:	3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category			
	Extinct (EX)				
	Extinct in the Wild (EW)				
	Critically Endangered (CR)				
	Endangered (EN)				
	Vulnerable (VU)				
Х	Near Threatened (NT)				
	Least Concern (LC)				
	Data Deficient (DD)				
	Not Evaluated (NE)				
ALL listed 4. Ra	the criteria, subcriteria and sud in the box provided. ationale for the Red List Assunge information were used, in	gories is selected (i.e. CR, EN or VU) then b-subcriteria met for that category, must be essment (Including whatever population or ferences, assumptions, etc. For NT specify ad for DD specify what little information is necessary.)			

Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 6 May 2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):
a. Taxonomy (any taxonomic notes of relevance - optional)
b. Geographic Range (including mention of important sites, and if known
specify the extent of occurrence and area of occupancy) Mexico: Chihuahua, Sonora, Sinaloa, Nayarit, Durango.

c. Population (for example, population size, abundance (rare, scarce, common, etc.), number and size of subpopulations if known, number of
locations and degree of fragmentation)
d. Habitat and Ecology (including particulars about breeding ecology if relevant)
Seasonally dry tropical forest. Regenerates in disturbed areas.
Habitats Authority:
1.5 Subtropical/Tropical Dry Forest
e. Threats (the main threats to the species, and if known, the severity and extent)
Fragmentation and conversion of Mesoamerican seasonally dry tropical forest.
Threat Auth: 1.1. Agriculture
1.1.1. Crops
1.1.1.1. Shifting agriculture 1.1.1.2. Small-holder farming
1.3.3 Wood
1.3.3.1 Small scale subsistence
1.1.4 Livestock 1.1.4.2 Small holder
f. Conservation Actions (including presence in protected areas and national legislation)
Not known from protected areas.
g. Utilization
Bark a source of fish poison.

11. Literature References (cited in full) used for the assessment and documentation

Fishbein, M., Wilson, R.K., Yetman, D.A., Jenkins, P., & Martin, P.S. (1998). Annotated list of Río Mayo vascular plants. In *Gentry's Río Mayo Plants: The tropical deciduous forest and environs of northwest Mexico*. eds P.S. Martin, D.A. Yetman, M. Fishbien, P. Jenkins, T.R. van Devender & R.K. Wilson, pp. 167-522. University of Arizona Press, Tuscon.

McVaugh, R. (1995) Euphorbiacearum sertum Novo-Galicianarum Revisarum *Contr. Univ. Michigan. Herb.* 20: 173-215

Govaerts, R.; Frodin, D.G.; & Radcliffe-Smith, A. (2000) World Checklist and Bibliography of Euphorbiaceae (and Pandanaceae). Royal Botanic Gardens, Kew

Seasonal/Dry forest conversion and fragmentation:

Trejo, I. & R. Dirzo, (2000) Deforestation of seasonally dry tropical forest: a national and local analysis in Mexico. *Biological Conservation* 94(2): p. 133-142.

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(please complete one questionnaire per taxon, extra sheets may be used)

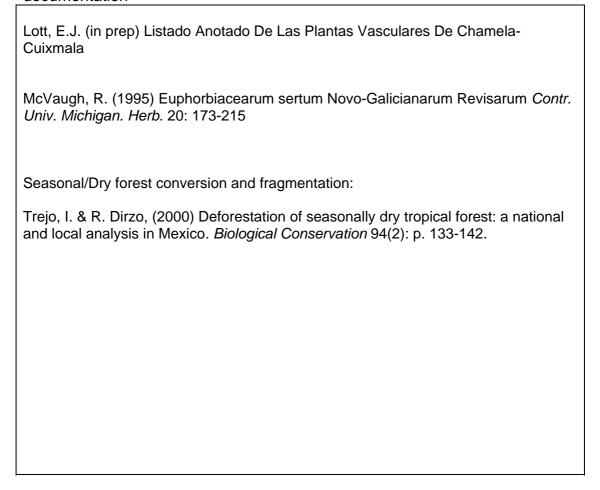
1a. Scientific name (including authority	details):			
Sebastiania lottiae McVaugh				
1b. Synonym/s (if there has been a taxowidely used)	onomic change in the last 5 years or if			
1c. English Common Name (if known)				
1d. Other Common Names (if known ar	nd state language)			
2a. Order	2b. Family			
Euphorbiales	Euphorbiaceae			
3. Distribution (describe the range in terms of countries of occurrence, subcountry units e.g. states, provinces, etc.; for an inland water taxon use the name/s of the lakes, river systems, etc. it occurs in; for a marine taxon use names of estuaries, territorial waters, FAO fisheries areas)				
Mexico: Jalisco, Michoacán, Guerrero, Oaxaca, Morelos				

	the r	Red List Assessment (using evised 2001 IUCN system), (3) one of the following:	3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category		
		Extinct (EX)			
		Extinct in the Wild (EW)			
		Critically Endangered (CR)			
		Endangered (EN)			
		Vulnerable (VU)			
	Χ	Near Threatened (NT)			
		Least Concern (LC)			
		Data Deficient (DD)			
		Not Evaluated (NE)			
	 Note: If one of the threatened categories is selected (i.e. CR, EN or VU) then ALL the criteria, subcriteria and sub-subcriteria met for that category, must be listed in the box provided. 4. Rationale for the Red List Assessment (Including whatever population or range information were used, inferences, assumptions, etc. For NT specify what criteria were nearly met and for DD specify what little information is known. Use additional sheets if necessary.) 				
ſ	ALL listed 4. Ra ra wh	the criteria, subcriteria and sud in the box provided. ationale for the Red List Assume information were used, in that criteria were nearly met ar	b-subcriteria met for that category, must be essment (Including whatever population or ferences, assumptions, etc. For NT specify d for DD specify what little information is		

Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 6 May 2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):a. Taxonomy (any taxonomic notes of relevance - optional)
ar raxementy (any taxemental notes of relevance optional)
b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
Mexico: Jalisco, Michoacán, Guerrero, Oaxaca, Morelos

c. Population (for example, population size, abundance (rare, scarce, common, etc.), number and size of subpopulations if known, number of locations and degree of fragmentation)
Habitats Authority:
1.5 Subtropical/Tropical Dry Forest
d. Habitat and Ecology (including particulars about breeding ecology if relevant)
Seasonally dry tropical forest. Regenerates in disturbed areas.
e. Threats (the main threats to the species, and if known, the severity and extent)
Fragmentation and conversion of Mesoamerican seasonally dry tropical forest.
Threat Auth: 1.1. Agriculture
1.1.1. Crops
1.1.1.1. Shifting agriculture 1.1.1.2. Small-holder farming
1.3.3 Wood
1.3.3.1 Small scale subsistence
f. Conservation Actions (including presence in protected areas and national legislation)
Known from the Chamela-Cuixmala Biosphere Reserve, Jalisco, Mexico
g. Utilization

11. Literature References (cited in full) used for the assessment and documentation



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(please complete one questionnaire per taxon, extra sheets may be used)

1a. Scientific name (including authority	details):			
Sebastiania adenophora Pax & K. Hoffm.				
1b. Synonym/s (if there has been a taxowidely used)	onomic change in the last 5 years or if			
1c. English Common Name (if known)				
1d. Other Common Names (if known ar	nd state language)			
2a. Order	2b. Family			
Euphorbiales	Euphorbiaceae			
3. Distribution (describe the range in te subcountry units e.g. states, provinces, ename/s of the lakes, river systems, etc. in names of estuaries, territorial waters, FA	etc.; for an inland water taxon use the toccurs in; for a marine taxon use			
Mexico: Quintana Roo, Yucatán, Campe Belize	eche,			
Guatemala (Petén)				

	Red List Assessment (using revised 2001 IUCN system), (3) one of the following:	3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category			
	Extinct (EX)				
	Extinct in the Wild (EW)				
	Critically Endangered (CR)				
	Endangered (EN)				
	Vulnerable (VU)				
Х	Near Threatened (NT)				
	Least Concern (LC)				
	Data Deficient (DD)				
	Not Evaluated (NE)				
Note	 Note: If one of the threatened categories is selected (i.e. CR, EN or VU) then ALL the criteria, subcriteria and sub-subcriteria met for that category, must be listed in the box provided. 4. Rationale for the Red List Assessment (Including whatever population or range information were used, inferences, assumptions, etc. For NT specify what criteria were nearly met and for DD specify what little information is known. Use additional sheets if necessary.) 				
ALL listed 4. Ra	the criteria, subcriteria and sud in the box provided. ationale for the Red List Assunge information were used, in hat criteria were nearly met ar	ressment (Including whatever population or ferences, assumptions, etc. For NT specify and for DD specify what little information is			

Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 6 May 2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):
a. Taxonomy (any taxonomic notes of relevance - optional)
b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
Mexico: Quintana Roo, Yucatán, Campeche, Belize Guatemala (Petén)

c. Population (for example, population size, abundance (rare, scarce,	
common, etc.), number and size of subpopulations if known, number of locations and degree of fragmentation)	
d. Habitat and Ecology (including particulars about breeding ecology if relevant)	
Seasonally dry tropical forest. Regenerates in disturbed areas.	
Habitats Authority:	
1.5 Subtropical/Tropical Dry Forest	
e. Threats (the main threats to the species, and if known, the severity and extent)	
Fragmentation and conversion of Mesoamerican seasonally dry tropical forest. Threat Auth: 1.1. Agriculture 1.1.1. Crops 1.1.1.1. Shifting agriculture	
1.1.1.2. Small-holder farming	
1.3.3 Wood 1.3.3.1 Small scale subsistence	
1.1.4 Livestock 1.1.4.2 Small holder	
f. Conservation Actions (including presence in protected areas and national legislation)	
Found in the region of the Calakmul Biopshere Reserve, Campeche, Mexico	

g. Utilization

11. Literature References (cited in full) used for the assessment and documentation
w³Tropicos (2005). Missouri Botanic Gardens, http://mobot.org/W3T .
Martínez, E., Sousa, M., & Ramos Álvarez, C. H. (2001) Listados Florísticos de México: Región de Calakmul, Campeche. UNAM, Mexico City.
Hawthorne, W H & Hughes C E (unpublished) <i>Draft annotated checklist for seasonal forest of Quintana Roo, Mexico, DFID</i>
Seasonal/Dry forest conversion and fragmentation:
Trejo, I. & R. Dirzo, (2000) Deforestation of seasonally dry tropical forest: a national and local analysis in Mexico. <i>Biological Conservation</i> 94(2): p. 133-142.

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(please complete one questionnaire per taxon, extra sheets may be used)

1a. Scientific name (including authority details):				
Sebastiania confusa Lundell				
1b. Synonym/s (if there has been a taxo widely used)	onomic change in the last 5 years or if			
1c. English Common Name (if known)				
1d. Other Common Names (if known ar	nd state language)			
2a. Order	2b. Family			
Euphorbiales	Euphorbiaceae			
3. Distribution (describe the range in te subcountry units e.g. states, provinces, ename/s of the lakes, river systems, etc. in names of estuaries, territorial waters, FA	etc.; for an inland water taxon use the toccurs in; for a marine taxon use			
Mexico: Quintana Roo, [probably also Y Belize Guatemala (Petén)	,			

the r	Red List Assessment (using evised 2001 IUCN system), (3) one of the following:	3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category			
	Extinct (EX)				
	Extinct in the Wild (EW)				
	Critically Endangered (CR)				
	Endangered (EN)				
	Vulnerable (VU)				
Х	Near Threatened (NT)				
	Least Concern (LC)				
	Data Deficient (DD)				
	Not Evaluated (NE)				
ALL listed 4. Ra	 Note: If one of the threatened categories is selected (i.e. CR, EN or VU) then ALL the criteria, subcriteria and sub-subcriteria met for that category, must be listed in the box provided. 4. Rationale for the Red List Assessment (Including whatever population or range information were used, inferences, assumptions, etc. For NT specify what criteria were nearly met and for DD specify what little information is known. Use additional sheets if necessary.) 				
be > How	20 000 km ² , ever, its native seasonal dry for	rests in this regional are under severe hay be a conservation concern, hence NT			

Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 6 May 2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):a. Taxonomy (any taxonomic notes of relevance - optional)
b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy) Mexico: Quintana Roo, Yucatán Belize Guatemala (Petén)

Barrela Care (Conservation of the Conservation
c. Population (for example, population size, abundance (rare, scarce,
common, etc.), number and size of subpopulations if known, number of
locations and degree of fragmentation)
d. Habitat and Ecology (including particulars about breeding ecology if
relevant)
Seasonally dry tropical forest. Regenerates in disturbed areas.
Habitats Authority:
1.5 Subtropical/Tropical Dry Forest
, , , , , , , , , , , , , , , , , , , ,
e. Threats (the main threats to the species, and if known, the severity
and extent)
Fragmentation and conversion of Mesoamerican seasonally dry tropical forest.
Threat Auth:
1.1. Agriculture
1.1.1. Crops
1.1.1.1. Shifting agriculture
1.1.1.2. Small-holder farming
1.1.1.2. Official floidor farming
1.3.3 Wood
1.3.3.1 Small scale subsistence
1.5.5.1 Small scale subsistence
1.1.4 Livestock
1.1.4.2 Small holder
1.1.4.2 Small holder
Concentation Actions (including pressure in protected cross and
f. Conservation Actions (including presence in protected areas and
national legislation)
g. Utilization

11. Literature References (cited in full) used for the assessment and documentation
w³Tropicos (2005). Missouri Botanic Gardens, http://mobot.mobot.org/W3T .
Govaerts, R.; Frodin, D.G.; & Radcliffe-Smith, A. (2000) World Checklist and Bibliography of Euphorbiaceae (and Pandanaceae). Royal Botanic Gardens, Kew
Hawthorne, W H & Hughes C E (unpublished) <i>Draft annotated checklist for seasonal forest of Quintana Roo, Mexico, DFID</i>
Seasonal/Dry forest conversion and fragmentation:
Trejo, I. & R. Dirzo, (2000) Deforestation of seasonally dry tropical forest: a national and local analysis in Mexico. <i>Biological Conservation</i> 94(2): p. 133-142.

Questionnaire

(please complete one questionnaire per taxon, extra sheets may be used)

1a. Scientific name (including authority details):		
Samyda mexicana Rose		
1b. Synonym/s (if there has been a taxonomic change in the last 5 years or if widely used)		
1c. English Common Name (if known)		
1d. Other Common Names (if known ar	nd state language)	
2a. Order	2b. Family	
VIOLALES	FLACOURTIACEAE	
3. Distribution (describe the range in terms of countries of occurrence, subcountry units e.g. states, provinces, etc.; for an inland water taxon use the name/s of the lakes, river systems, etc. it occurs in; for a marine taxon use names of estuaries, territorial waters, FAO fisheries areas)		
Mexico: Jalisco, Colima, Guerrero, Oaxaca, Veracruz		

the r	Red List Assessment (using evised 2001 IUCN system), (3) one of the following:	3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category
	Extinct (EX)	
	Extinct in the Wild (EW)	
	Critically Endangered (CR)	
	Endangered (EN)	
	Vulnerable (VU)	
Х	Near Threatened (NT)	
	Least Concern (LC)	
	Data Deficient (DD)	
	Not Evaluated (NE)	
 Note: If one of the threatened categories is selected (i.e. CR, EN or VU) then ALL the criteria, subcriteria and sub-subcriteria met for that category, must be listed in the box provided. 4. Rationale for the Red List Assessment (Including whatever population or range information were used, inferences, assumptions, etc. For NT specify what criteria were nearly met and for DD specify what little information is known. Use additional sheets if necessary.) 		
Distribution limited to SW Mexican seasonally dry tropical forest but extent of occurrence inferred to be > 20 000 km ²		
This	forest type is highly fragmente	ed and threatened.

Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 6 May 2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):
a. Taxonomy (any taxonomic notes of relevance - optional)
 b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
Mexico (Jalisco, colima, Guerrero, Oaxaca, Veracruz)

c. Population (for example, population size, abundance (rare, scarce, common, etc.), number and size of subpopulations if known, number of
locations and degree of fragmentation)
d. Habitat and Ecology (including particulars about breeding ecology if relevant)
Habitats Authority:
1.5 Subtropical/Tropical Dry Forest
e. Threats (the main threats to the species, and if known, the severity
and extent) Fragmentation and conversion of Mesoamerican seasonally dry tropical forest.
Threat Auth:
1.1. Agriculture 1.1.1. Crops
1.1.1.1. Shifting agriculture 1.1.1.2. Small-holder farming
1.3.3 Wood
1.3.3.1 Small scale subsistence
1.1.4 Livestock
1.1.4.2 Small holder
f. Conservation Actions (including presence in protected areas and national legislation)
national legislation)
g. Utilization

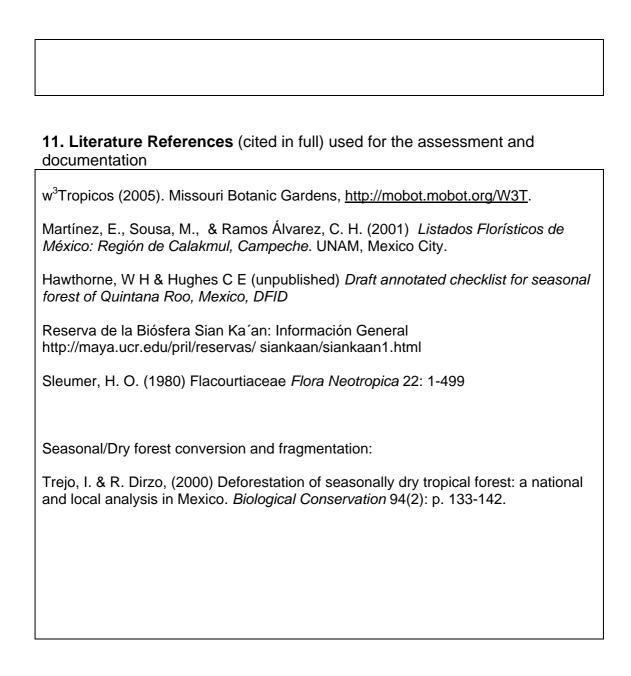
Lott, E.J. (in prep) <i>Listado Anotado De Las Plantas Vasculares De Chamela-Cuixmala</i>
Sleumer, H. O. (1980) Flacourtiaceae Flora Neotropica 22: 1-499
Seasonal/Dry forest conversion and fragmentation:
Trejo, I. & R. Dirzo, (2000) Deforestation of seasonally dry tropical forest: a national and local analysis in Mexico. <i>Biological Conservation</i> 94(2): p. 133-142.

Questionnaire (please complete one questionnaire per taxon, extra sheets may be used)		
1a. Scientific name (including authority details):		
Samyda yucatanensis Standl.		
1b. Synonym/s (if there has been a taxonomic change in the last 5 years or if widely used)		
1c. English Common Name (if known)		
1d. Other Common Names (if known and state language)		
idi Stiloi Solililoli idalilos (il kilowii al	iu state language)	
Tai Striet Sermier Names (ii Kriewi ai	iu state language)	
2a. Order	2b. Family	
2a. Order	2b. Family FLACOURTIACEAE rms of countries of occurrence, etc.; for an inland water taxon use the toccurs in; for a marine taxon use	

the	Red List Assessment (using revised 2001 IUCN system), (3) one of the following:	3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category
	Extinct (EX)	
	Extinct in the Wild (EW)	
	Critically Endangered (CR)	
	Endangered (EN)	
	Vulnerable (VU)	
X	Near Threatened (NT)	
	Least Concern (LC)	
	Data Deficient (DD)	
	Not Evaluated (NE)	
 Note: If one of the threatened categories is selected (i.e. CR, EN or VU) then ALL the criteria, subcriteria and sub-subcriteria met for that category, must be listed in the box provided. 4. Rationale for the Red List Assessment (Including whatever population or range information were used, inferences, assumptions, etc. For NT specify what criteria were nearly met and for DD specify what little information is known. Use additional sheets if necessary.) 		
Distribution limited to dry scrub and seasonally dry tropical forest of the northern Yucatán Peninsula. Extent of occurrence inferred to be > 20 000 km², but probably not much more. The preference of this small tree or shrub for secondary forests reduces its conservation concern. This forest type is highly fragmented and threatened.		

Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 9 May 2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):a. Taxonomy (any taxonomic notes of relevance - optional)
 Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
Mexico: Campeche, Yucatán, Quintana Roo

c. Population (for example, population size, abundance (rare, scarce, common, etc.), number and size of subpopulations if known, number of locations and degree of fragmentation)	
d. Habitat and Ecology (including particulars about breeding ecology if relevant)	
Seasonally dry tropical deciduous forest and scrub, perhaps also occasionally semi-deciduous forest. Locally common and found in secondary successions.	
Habitats Authority:	
1.5 Subtropical/Tropical Dry Forest 3.5. Subtropical/Tropical Dry Scrubland	
e. Threats (the main threats to the species, and if known, the severity and extent)	
Fragmentation and conversion of Mesoamerican seasonally dry tropical forest.	
Threat Auth: 1.1. Agriculture	
1.1.1. Crops 1.1.1.1. Shifting agriculture	
1.1.1.2. Small-holder farming	
1.3.3 Wood 1.3.3.1 Small scale subsistence	
1.1.4 Livestock 1.1.4.2 Small holder	
f. Conservation Actions (including presence in protected areas and national legislation)	
Present in the Sian Ka'an Biosphere Reserve (Quintana Roo) and known from the region of the Calakmul Biosphere Reserve	
g. Utilization	



(please complete one questionnaire per taxon, extra sheets may be used)		
1a. Scientific name (including authority details):		
Gyrocarpus mocinoi Espejo		
1b. Synonym/s (if there has been a taxonomic change in the last 5 years or if widely used)		
1c. English Common Name (if known)		
1d. Other Common Names (if known and state language)		
Bailador (Spanish)		
2a. Order	2b. Family	
LAURALES	HERNANDIACEAE	
3. Distribution (describe the range in terms of countries of occurrence, subcountry units a gustates provinces, etc.; for an inland water taxon use the		

subcountry units e.g. states, provinces, etc.; for an inland water taxon use the name/s of the lakes, river systems, etc. it occurs in; for a marine taxon use names of estuaries, territorial waters, FAO fisheries areas)

Mexico: Guerrero, Oaxaca, Chiapas, Puebla Guatemala

3a. Red List Assessment (using the revised 2001 IUCN system), tick (3) one of the following:		evised 2001 IUCN system),	3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category
		Extinct (EX)	
		Extinct in the Wild (EW)	
		Critically Endangered (CR)	
		Endangered (EN)	
		Vulnerable (VU)	
	Χ	Near Threatened (NT)	
		Least Concern (LC)	
		Data Deficient (DD)	
		Not Evaluated (NE)	
 Note: If one of the threatened categories is selected (i.e. CR, EN or VU) the ALL the criteria, subcriteria and sub-subcriteria met for that category, must listed in the box provided. 4. Rationale for the Red List Assessment (Including whatever population range information were used, inferences, assumptions, etc. For NT spec what criteria were nearly met and for DD specify what little information is known. Use additional sheets if necessary.) 		sessment (Including whatever population or ferences, assumptions, etc. For NT specify and for DD specify what little information is	
	Distribution limited to semi-seasonal and seasonally dry tropical forest. Extent of occurrence inferred to be > 20 000 km ² .		
	This	forest type is highly fragmente	ed and threatened.
	Gyro	This is a relatively newly described species (1991) that is easily confused with <i>Gyrocarpus jatrophifolius</i> Domin. Its status may therefore be subject to change.	

Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 9 May 2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):
a. Taxonomy (any taxonomic notes of relevance - optional)
 Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
Mexico: Guerrero, Oaxaca, Chiapas, Puebla Guatemala: El Progreso
Guatemaia. El Flogreso

c. Population (for example, population size, abundance (rare, scarce, common, etc.), number and size of subpopulations if known, number of locations and degree of fragmentation)
d. Habitat and Ecology (including particulars about breeding ecology if relevant)
Seasonally dry tropical deciduous forest and scrub, and occasionally semi- deciduous forest. Colonises secondary successions,
Habitats Authority:
1.5 Subtropical/Tropical Dry Forest 3.5. Subtropical/Tropical Dry Scrubland
e. Threats (the main threats to the species, and if known, the severity and extent)
Fragmentation and conversion of Mesoamerican seasonally dry tropical forest.
Threat Auth: 1.1. Agriculture
1.1.1. Crops 1.1.1.1. Shifting agriculture
1.1.1.2. Small-holder farming
1.3.3 Wood 1.3.3.1 Small scale subsistence
1.1.4 Livestock 1.1.4.2 Small holder
f. Conservation Actions (including presence in protected areas and national legislation)
g. Utilization

Espejo Serna, A (1997) Hernandiaceae in *Flora of Mexico* Vol. 7(2) Consejo Nacional de la Flora de Mexico, A.C.

w³Tropicos (2005). Missouri Botanic Gardens, http://mobot.mobot.org/W3T.

Gordon, JE; Hawthorne, WD; Reyes-García, R; Sandoval, G; Barrance, AJ (2004) Assessing Landscapes: A case study of tree and shrub diversity in the seasonally dry tropical forests of Oaxaca, Mexico and southern Honduras. *Biological Conservation* 117, 449-442

Salas-Morales, S.H., Saynes-Váquez, A., & Schibli, L. (2003) Flora de la costa de Oaxaca: lista florística de la región de Zimatán. *Boletín de la Sociedad Botánica Mexicana*, 72, 21-58.

Seasonal/Dry forest conversion and fragmentation:

Trejo, I. & R. Dirzo, (2000) Deforestation of seasonally dry tropical forest: a national and local analysis in Mexico. *Biological Conservation* 94(2): p. 133-142.

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(please complete one questionnaire per taxon, extra sheets may be used)

1a. Scientific name (including authority	details):
Bauhinia erythrocalyx Wunderlin	
1b. Synonym/s (if there has been a taxowidely used)	onomic change in the last 5 years or if
1c. English Common Name (if known)	
1d. Other Common Names (if known ar	nd state language)
2a. Order	2b. Family
FABALES	LEGUMINOSAE- CAESALPINIOIDEAE
3. Distribution (describe the range in te subcountry units e.g. states, provinces, ename/s of the lakes, river systems, etc. in names of estuaries, territorial waters, FA	etc.; for an inland water taxon use the toccurs in; for a marine taxon use
Mexico: Quintana Roo, Campeche Guatemala: Petén Belize	

3a. Red List Assessment (using the revised 2001 IUCN system), tick (3) one of the following:		3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category
	Extinct (EX)	
	Extinct in the Wild (EW)	
	Critically Endangered (CR)	
	Endangered (EN)	
	Vulnerable (VU)	
X	Near Threatened (NT)	
	Least Concern (LC)	
	Data Deficient (DD)	
	Not Evaluated (NE)	
 Note: If one of the threatened categories is selected (i.e. CR, EN or VU) then ALL the criteria, subcriteria and sub-subcriteria met for that category, must be listed in the box provided. 4. Rationale for the Red List Assessment (Including whatever population or range information were used, inferences, assumptions, etc. For NT specify what criteria were nearly met and for DD specify what little information is known. Use additional sheets if necessary.) 		
listed 4. Ra ra w	the criteria, subcriteria and sud in the box provided. ationale for the Red List Assunge information were used, in hat criteria were nearly met ar	ressment (Including whatever population or ferences, assumptions, etc. For NT specify and for DD specify what little information is

Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 9 May 2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):
a. Taxonomy (any taxonomic notes of relevance - optional)
b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
Mexico: Quintana Roo, Campeche Guatemala: Petén Belize

c. Population (for example, population size, abundance (rare, scarce,
common, etc.), number and size of subpopulations if known, number of
locations and degree of fragmentation)
Uncommon (Wunderlin 1983)
d. Habitat and Ecology (including particulars about breeding ecology if relevant)
Semi-seasonal and seasonal dry tropical forest. Colonises secondary
successions.
e. Threats (the main threats to the species, and if known, the severity and extent)
Fragmentation and conversion of Mesoamerican seasonally dry tropical forest.
f. Conservation Actions (including presence in protected areas and national legislation)
Found in the region of the Calakmul Biosphere Reserve, Campeche, Mexico

Wunderlin, R.P. (1983) A Revision of the Arborescent Bauhinias. *Ann. Mis. Bot. Gdn.* 70:95-127

w³Tropicos (2005). Missouri Botanic Gardens, http://mobot.mobot.org/W3T.

Martínez, E., Sousa, M., & Ramos Álvarez, C. H. (2001) Listados Florísticos de México: Región de Calakmul, Campeche. UNAM, Mexico City.

Hawthorne, W H & Hughes C E (unpublished) *Draft annotated checklist for seasonal forest of Quintana Roo, Mexico, DFID*

Seasonal/Dry forest conversion and fragmentation:

Trejo, I. & R. Dirzo, (2000) Deforestation of seasonally dry tropical forest: a national and local analysis in Mexico. *Biological Conservation* 94(2): p. 133-142.

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(please complete one questionnaire per taxon, extra sheets may be used)

mic change in the last 5 years or if
state language)
o. Family
EGUMINOSAE- CAESALPINIOIDEAE
s of countries of occurrence, ; for an inland water taxon use the ccurs in; for a marine taxon use fisheries areas) of Mexico.
S ::

3a. Red List Assessment (using the revised 2001 IUCN system), tick (3) one of the following:		3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category	
	Extinct (EX)	spp. sp. mar and and gony	
	Extinct in the Wild (EW)		
	Critically Endangered (CR)		
	Endangered (EN)		
	Vulnerable (VU)		
Х	Near Threatened (NT)		
	Least Concern (LC)		
	Data Deficient (DD)		
	Not Evaluated (NE)		
 Note: If one of the threatened categories is selected (i.e. CR, ALL the criteria, subcriteria and sub-subcriteria met for that clisted in the box provided. 4. Rationale for the Red List Assessment (Including whate range information were used, inferences, assumptions, etc what criteria were nearly met and for DD specify what little known. Use additional sheets if necessary.) 		sessment (Including whatever population or ferences, assumptions, etc. For NT specify and for DD specify what little information is	
Distribution of this small tree is limited to semi-seasonal tropical forest in the Balsas Region of western Mexico, where rapid development has caused reduction in forest area and quality but extent of occurrence inferred to be > 20 000 km², therefore NT.			

Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 9 May 2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):
a. Taxonomy (any taxonomic notes of relevance - optional)
b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
Mexico- Jalisco, Colima, Michoacán, State of Mexico.

c. Population (for example, population size, abundance (rare, scarce, common, etc.), number and size of subpopulations if known, number of
locations and degree of fragmentation)
d. Habitat and Ecology (including particulars about breeding ecology if relevant)
Seasonal dry tropical forest.
Habitats Authority:
4.5. Culptronical/Transact
1.5 Subtropical/Tropical Dry Forest
Threats (the main threats to the angeles and if Impare the acception
e. Threats (the main threats to the species, and if known, the severity and extent)
Fragmentation and conversion of Mesoamerican seasonally dry tropical forest.
Threat Auth:
1.1. Agriculture
1.1.1. Crops
1.1.1.1. Shifting agriculture
1.1.1.2. Small-holder farming
1.3.3 Wood
1.3.3.1 Small scale subsistence
1.1.4 Livestock
1.1.4.2 Small holder
f. Conservation Actions (including presence in protected areas and national legislation)
Known from the Chamela-Cuixmala Biosphere Reserve, Jalisco, Mexico
g. Utilization

w³Tropicos (2005). Missouri Botanic Gardens, http://mobot.mobot.org/W3T.

Lott, E.J. (in prep) Listado Anotado De Las Plantas Vasculares De Chamela-Cuixmala

McVaugh, R. 1987 Leguminosae in *Flora Novo-Galiciana* 5: 1-786 ed Anderson, W. R. University of Michigan Press, Ann Arbor

International Legume Database & Information Service (ILDIS) (2005) http://www.ildis.org/

Seasonal/Dry forest conversion and fragmentation:

Trejo, I. & R. Dirzo, (2000) Deforestation of seasonally dry tropical forest: a national and local analysis in Mexico. *Biological Conservation* 94(2): p. 133-142.

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(please complete one questionnaire per taxon, extra sheets may be used)

1a. Scientific name (including authority details):			
Calliandra juzepczukii Standl.			
1b. Synonym/s (if there has been a taxonomic change in the last 5 years or if widely used)			
1c. English Common Name (if known)			
1d. Other Common Names (if known ar	nd state language)		
2a. Order	2b. Family		
FABALES	LEGUMINOSAE- MIMOSOIDEAE		
3. Distribution (describe the range in terms of countries of occurrence, subcountry units e.g. states, provinces, etc.; for an inland water taxon use the name/s of the lakes, river systems, etc. it occurs in; for a marine taxon use names of estuaries, territorial waters, FAO fisheries areas)			
Mexico: Oaxaca, Chiapas, Veracruz			

the r	Red List Assessment (using revised 2001 IUCN system), (3) one of the following:	3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category	
	Extinct (EX)		
	Extinct in the Wild (EW)		
	Critically Endangered (CR)		
	Endangered (EN)		
	Vulnerable (VU)		
Х	Near Threatened (NT)		
	Least Concern (LC)		
	Data Deficient (DD)		
	Not Evaluated (NE)		
 Note: If one of the threatened categories is selected (i.e. CR, EN or VU) then ALL the criteria, subcriteria and sub-subcriteria met for that category, must be listed in the box provided. 4. Rationale for the Red List Assessment (Including whatever population or range information were used, inferences, assumptions, etc. For NT specify what criteria were nearly met and for DD specify what little information is known. Use additional sheets if necessary.) 			
ALL listed 4. Ra	the criteria, subcriteria and sud in the box provided. ationale for the Red List Assunge information were used, in hat criteria were nearly met ar	sessment (Including whatever population or ferences, assumptions, etc. For NT specify and for DD specify what little information is	

Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 10 th May 2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):
a. Taxonomy (any taxonomic notes of relevance - optional)
b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
Mexico: Oaxaca, Chiapas, Veracruz

c. Population (for example, population size, abundance (rare, scarce, common, etc.), number and size of subpopulations if known, number of locations and degree of fragmentation)
d. Habitat and Ecology (including particulars about breeding ecology if relevant)
Mexican tropical semi-seasonal and seasonally dry forest. Habitats Authority:
Forest:
1.5. Subtropical/Tropical Dry
e. Threats (the main threats to the species, and if known, the severity and extent)
Fragmentation and conversion of Mexican tropical semi-seasonal and seasonally dry forest.
Threat Auth:
1.1. Agriculture 1.1.1. Crops
1.1.1.1. Shifting agriculture 1.1.1.2. Small-holder farming
f. Conservation Actions (including presence in protected areas and
national legislation)
g. Utilization
g. Utilization

w³Tropicos (2005). Missouri Botanic Gardens, http://mobot.mobot.org/W3T.

Janzen, D.H. & Liesner, R. (1980) Annotated checklist of plants of lowland Guanacaste Province, Costa Rica, exclusive of grasses and non-vascular cryptograms. *Brenesia*, 18, 15-90.

International Legume Database & Information Service (ILDIS) (2005) http://www.ildis.org/

Seasonal/Dry forest conversion and fragmentation:

Trejo, I. & R. Dirzo, (2000) Deforestation of seasonally dry tropical forest: a national and local analysis in Mexico. *Biological Conservation* 94(2): p. 133-142.

Questionnaire

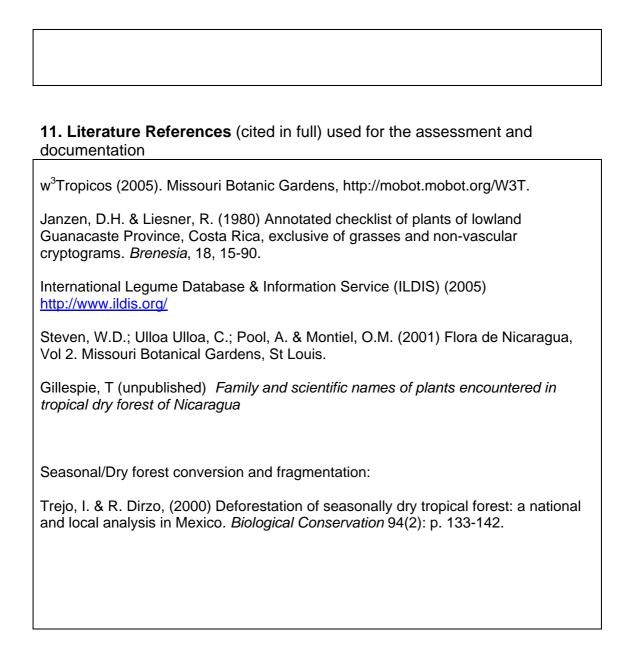
(please complete one questionnaire per taxon, extra sheets may be used)

1a. Scientific name (including authority details):			
onomic change in the last 5 years or if			
1d. Other Common Names (if known and state language)			
2b. Family			
LEGUMINOSAE- PAPILIONOIDEAE			
rms of countries of occurrence, etc.; for an inland water taxon use the t occurs in; for a marine taxon use Offisheries areas)			

the r	Red List Assessment (using revised 2001 IUCN system), (3) one of the following:	3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category	
	Extinct (EX)		
	Extinct in the Wild (EW)		
	Critically Endangered (CR)		
	Endangered (EN)		
	Vulnerable (VU)		
Х	Near Threatened (NT)		
	Least Concern (LC)		
	Data Deficient (DD)		
	Not Evaluated (NE)		
 Note: If one of the threatened categories is selected (i.e. CR, EN or VU) then ALL the criteria, subcriteria and sub-subcriteria met for that category, must be listed in the box provided. 4. Rationale for the Red List Assessment (Including whatever population or range information were used, inferences, assumptions, etc. For NT specify what criteria were nearly met and for DD specify what little information is known. Use additional sheets if necessary.) 			
ALL listed 4. Ra	the criteria, subcriteria and sud in the box provided. ationale for the Red List Assunge information were used, in hat criteria were nearly met ar	sessment (Including whatever population or ferences, assumptions, etc. For NT specify and for DD specify what little information is	

Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 10 th May 2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
(at least two, and the name of the Ned List Admonty)
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):
a. Taxonomy (any taxonomic notes of relevance - optional)
 Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
Mexico: Oaxaca, Chiapas, Veracruz

c. Population (for example, population size, abundance (rare, scarce, common, etc.), number and size of subpopulations if known, number of locations and degree of fragmentation)		
d. Habitat and Ecology (including particulars about breeding ecology if relevant)		
Mexican tropical semi-seasonal and seasonally dry forest. Habitats Authority:		
Forest: 1.5. Subtropical/Tropical Dry		
e. Threats (the main threats to the species, and if known, the severity and extent)		
Fragmentation and conversion of Mexican tropical semi-seasonal and seasonally dry forest.		
Threat Auth: 1.1. Agriculture		
1.1.1. Crops 1.1.1.1. Shifting agriculture 1.1.1.2. Small-holder farming		
f. Conservation Actions (including presence in protected areas and national legislation)		
Collected from the Guanacaste Conservation Area, Costa Rica		
g. Utilization		



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(please complete one questionnaire per taxon, extra sheets may be used)

1a. Scientific name (including authority details):		
Caesalpinia hughesii G.P. Lewis		
1b. Synonym/s (if there has been a taxonomic change in the last 5 years or if widely used)		
1c. English Common Name (if known)		
1d. Other Common Names (if known and state language)		
2a. Order	2b. Family	
FABALES	LEGUMINOSAE- CAESALPINIOIDEAE	
3. Distribution (describe the range in ter subcountry units e.g. states, provinces, e name/s of the lakes, river systems, etc. it names of estuaries, territorial waters, FA	tc.; for an inland water taxon use the occurs in; for a marine taxon use	
Mexico: Colima, Michoacán, Guerrero, Oaxaca		

Note: A distribution map showing the Extent of Occurrence **MUST** be attached.

the r	Red List Assessment (using revised 2001 IUCN system), (3) one of the following:	3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category	
	Extinct (EX)		
	Extinct in the Wild (EW)		
	Critically Endangered (CR)		
	Endangered (EN)		
	Vulnerable (VU)		
Х	Near Threatened (NT)		
	Least Concern (LC)		
	Data Deficient (DD)		
	Not Evaluated (NE)		
ALL listed	the criteria, subcriteria and sud in the box provided. ationale for the Red List Assunge information were used, in hat criteria were nearly met arnown. Use additional sheets if		
ALL listed	the criteria, subcriteria and sud in the box provided. ationale for the Red List Assunge information were used, in hat criteria were nearly met ar	sessment (Including whatever population or ferences, assumptions, etc. For NT specify and for DD specify what little information is necessary.)	

5. Reason for Change in Red List Assessment from that in the 2000 Red List (see www.redlist.org) tick (3) at least one of the following:

Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 9 May 2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
 10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required): a. Taxonomy (any taxonomic notes of relevance - optional)
b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
Mexico- Colima, Michocán, Guerrero, Oaxaca.

f. Conservation Actions (including presence in protected areas and national legislation)

Not known to be present in any protected area, although known from secondary regeneration around the Parque Nacional Huatulco- possible that species will be found within this National Park.

g. Utilization
11. Literature References (cited in full) used for the assessment and
documentation
w³Tropicos (2005). Missouri Botanic Gardens, http://mobot.org/W3T .
Lewis, G.P. (1998) Caesalpinia Royal Botanic Gardens, Kew
Gordon, JE; Hawthorne, WD; Reyes-García, R; Sandoval, G; Barrance, AJ (2004) Assessing Landscapes: A case study of tree and shrub diversity in the seasonally dry tropical forests of Oaxaca, Mexico and southern Honduras. <i>Biological Conservation</i> 117, 449-442
Seasonal/Dry forest conversion and fragmentation:
Trejo, I. & R. Dirzo, (2000) Deforestation of seasonally dry tropical forest: a national and local analysis in Mexico. <i>Biological Conservation</i> 94(2): p. 133-142.

Questionnaire (please complete one questionnaire per taxon, extra sheets may be used) 1a. Scientific name (including authority details):

1a. Scientific name (including authority details):			
Lonchocarpus constrictus Pittier			
1b. Synonym/s (if there has been a taxonomic change in the last 5 years or if widely used)			
1c. English Common Name (if known)			
1d. Other Common Names (if known and state language)			
2a. Order	2b. Family		
FABALES	LEGUMINOSAE- PAPILIONOIDEAE		
3. Distribution (describe the range in te subcountry units e.g. states, provinces, ename/s of the lakes, river systems, etc. in names of estuaries, territorial waters, FA	etc.; for an inland water taxon use the t occurs in; for a marine taxon use .O fisheries areas)		
Mexico: Jalisco, Guerrero, Michoacán, Colima, Oaxaca			

Note: A distribution map showing the Extent of Occurrence **MUST** be attached.

3a. Red List Assessment (using the revised 2001 IUCN system), tick (3) one of the following:		3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category	
	Extinct (EX)		
	Extinct in the Wild (EW)		
Critically Endangered (CR)			
	Endangered (EN)		
	Vulnerable (VU)		
Х	Near Threatened (NT)		
	Least Concern (LC)		
	Data Deficient (DD)		
	Not Evaluated (NE)		
 Note: If one of the threatened categories is selected (i.e. CR, EN or VU) then ALL the criteria, subcriteria and sub-subcriteria met for that category, must be listed in the box provided. 4. Rationale for the Red List Assessment (Including whatever population or range information were used, inferences, assumptions, etc. For NT specify what criteria were nearly met and for DD specify what little information is known. Use additional sheets if necessary.) 			
4. R ra w	d in the box provided. ationale for the Red List Assunge information were used, in hat criteria were nearly met ar	eessment (Including whatever population or ferences, assumptions, etc. For NT specify and for DD specify what little information is	

5. Reason for Change in Red List Assessment from that in the 2000 Red List (see www.redlist.org) tick (3) at least one of the following:

Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 4 th June 2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
(at least two, and the hame of the real bist hathority)
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):
a. Taxonomy (any taxonomic notes of relevance - optional)
 Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
Mexico: Jalisco, Guerrero, Michoacán, Colima, Oaxaca

c. Population (for example, population size, abundance (rare, scarce, common, etc.), number and size of subpopulations if known, number of locations and degree of fragmentation)
d. Habitat and Ecology (including particulars about breeding ecology if relevant)
Mesoamerican seasonally dry forest. Habitats Authority:
Forest: 1.5. Subtropical/Tropical Dry
e. Threats (the main threats to the species, and if known, the severity and extent)
and extent) Fragmentation and conversion of Mexican tropical semi-seasonal and seasonally dry forest. Threat Auth:
Fragmentation and conversion of Mexican tropical semi-seasonal and seasonally dry forest. Threat Auth: 1.1. Agriculture
and extent) Fragmentation and conversion of Mexican tropical semi-seasonal and seasonally dry forest. Threat Auth:
Fragmentation and conversion of Mexican tropical semi-seasonal and seasonally dry forest. Threat Auth: 1.1. Agriculture 1.1.1. Crops
and extent) Fragmentation and conversion of Mexican tropical semi-seasonal and seasonally dry forest. Threat Auth: 1.1. Agriculture 1.1.1. Crops 1.1.1.1. Shifting agriculture
Fragmentation and conversion of Mexican tropical semi-seasonal and seasonally dry forest. Threat Auth: 1.1. Agriculture 1.1.1. Crops 1.1.1.1. Shifting agriculture 1.1.1.2. Small-holder farming f. Conservation Actions (including presence in protected areas and national legislation)
Fragmentation and conversion of Mexican tropical semi-seasonal and seasonally dry forest. Threat Auth: 1.1. Agriculture 1.1.1. Crops 1.1.1.1. Shifting agriculture 1.1.1.2. Small-holder farming f. Conservation Actions (including presence in protected areas and
Fragmentation and conversion of Mexican tropical semi-seasonal and seasonally dry forest. Threat Auth: 1.1. Agriculture 1.1.1. Crops 1.1.1.1. Shifting agriculture 1.1.1.2. Small-holder farming f. Conservation Actions (including presence in protected areas and national legislation)
Fragmentation and conversion of Mexican tropical semi-seasonal and seasonally dry forest. Threat Auth: 1.1. Agriculture 1.1.1. Crops 1.1.1.1. Shifting agriculture 1.1.1.2. Small-holder farming f. Conservation Actions (including presence in protected areas and national legislation) Found in the Chamela-Cuixmala Biosphere Reserve in Jalisco.

11. Literature References (cited in full) used for the assessment and documentation

McVaugh, R. (1987) *Leguminosae* in Flora Novo-Galiciana vol 5: 1-786; ed Anderson, W. R. University of Michigan Press, Ann Arbor

w³Tropicos (2005). Missouri Botanic Gardens, http://mobot.mobot.org/W3T.

International Legume Database & Information Service (ILDIS) (2005) http://www.ildis.org/

Salas-Morales, S.H., Saynes-Váquez, A., & Schibli, L. (2003) Flora de la costa de Oaxaca: lista florística de la región de Zimatán. *Boletín de la Sociedad Botánica Mexicana*, 72, 21-58.

Gordon, JE; Hawthorne, WD; Reyes-García, R; Sandoval, G; Barrance, AJ (2004) Assessing Landscapes: A case study of tree and shrub diversity in the seasonally dry tropical forests of Oaxaca, Mexico and southern Honduras. *Biological Conservation* 117, 449-442

Lott, E.J. (in prep) Listado Anotado De Las Plantas Vasculares De Chamela-Cuixmala

Seasonal/Dry forest conversion and fragmentation:

Trejo, I. & R. Dirzo, (2000) Deforestation of seasonally dry tropical forest: a national and local analysis in Mexico. *Biological Conservation* 94(2): p. 133-142.

Questionnaire

(please complete one questionnaire per taxon, extra sheets may be used)

1a. Scientific name (including aut	thority details):
Lonchocarpus hintonii Sandwith	
1b. Synonym/s (if there has been widely used)	a taxonomic change in the last 5 years or if
1c. English Common Name (if kr	nown)
1d. Other Common Names (if known	own and state language)
2a. Order	2b. Family
FABALES	LEGUMINOSAE- PAPILIONOIDEAE
subcountry units e.g. states, provir	ge in terms of countries of occurrence, nces, etc.; for an inland water taxon use the s, etc. it occurs in; for a marine taxon use ers, FAO fisheries areas)
Mexico: Jalisco, Guerrero, Mid	choacán, Colima, Oaxaca, Chiapas
Note: A distribution map showing attached.	the Extent of Occurrence MUST be
3a. Red List Assessment (using the revised 2001 IUCN system), tick (3) one of the following:	3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category
Extinct (EX)	
Extinct in the Wild (EW)	
Critically Endangered (CR)	
Endangered (EN)	
Vulnerable (VU)	

X Near Threatened (NT)
Least Concern (LC)
Data Deficient (DD)
Not Evaluated (NE)
 Note: If one of the threatened categories is selected (i.e. CR, EN or VU) then ALL the criteria, subcriteria and sub-subcriteria met for that category, must be listed in the box provided. 4. Rationale for the Red List Assessment (Including whatever population or range information were used, inferences, assumptions, etc. For NT specify what criteria were nearly met and for DD specify what little information is known. Use additional sheets if necessary.)
This tree has an extent of occurrence greater than 20 000 km², and is therefore not in immediate danger of extinction but is restricted to the seasonal dry forests of the western and southwestern pacific coast of Mexico, an area that has undergone and continues to undergo forest conversion.
5. Reason for Change in Red List Assessment from that in the 2000 Red List (see www.redlist.org) tick (3) at least one of the following:
Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the specie
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following): Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 4 th June 2005

8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):
a. Taxonomy (any taxonomic notes of relevance - optional)
b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
Mexico: Nayarit, Jalisco, Guerrero, Michoacán, Colima, Oaxaca
c. Population (for example, population size, abundance (rare, scarce, common, etc.), number and size of subpopulations if known, number of locations and degree of fragmentation)
d. Habitat and Ecology (including particulars about breeding ecology if relevant)

Mesoamerican seasonally dry forest.
Habitats Authority:
Forest:
1.5. Subtropical/Tropical Dry
1.0. Cubitopical Tropical Bry
e. Threats (the main threats to the species, and if known, the severity
and extent)
and extent)
Fragmentation and conversion of Mexican tropical semi-seasonal and
seasonally dry forest.
Threat Auth:
1.1. Agriculture
1.1.1. Crops
1.1.1.1. Shifting agriculture
1.1.1.2. Small-holder farming
f. Conservation Actions (including presence in protected areas and
national legislation)
Found in the Chamela-Cuixmala Biosphere Reserve in Jalisco. Possibly also
present in Huatulco National Park, Oaxaca- requires confirmation.
g. Utilization
y. Othization

11. Literature References (cited in full) used for the assessment and documentation

w³Tropicos (2005). Missouri Botanic Gardens, http://mobot.mobot.org/W3T.

International Legume Database & Information Service (ILDIS) (2005) http://www.ildis.org/

Salas-Morales, S.H., Saynes-Váquez, A., & Schibli, L. (2003) Flora de la costa de Oaxaca: lista florística de la región de Zimatán. *Boletín de la Sociedad Botánica Mexicana*, 72, 21-58.

Gordon, JE; Hawthorne, WD; Reyes-García, R; Sandoval, G; Barrance, AJ (2004) Assessing Landscapes: A case study of tree and shrub diversity in the seasonally dry tropical forests of Oaxaca, Mexico and southern Honduras. *Biological Conservation* 117, 449-442

McVaugh, R. (1987) *Leguminosae* in Flora Novo-Galiciana vol 5: 1-786; ed Anderson, W. R. University of Michigan Press, Ann Arbor

Lott, E.J. (in prep) Listado Anotado De Las Plantas Vasculares De Chamela-Cuixmala

Seasonal/Dry forest conversion and fragmentation:

Trejo, I. & R. Dirzo, (2000) Deforestation of seasonally dry tropical forest: a national and local analysis in Mexico. *Biological Conservation* 94(2): p. 133-142.

Questionnaire

(please complete one questionnaire per taxon, extra sheets may be used)

1a. Scientific name (including au	thority o	details):
Lonchocarpus magallanesii M. So	ousa	
1b. Synonym/s (if there has been widely used)	a taxo	nomic change in the last 5 years or if
1c. English Common Name (if kr	nown)	
1d. Other Common Names (if kn	own an	d state language)
2a. Order		2b. Family
FABALES		LEGUMINOSAE- PAPILIONOIDEAE
name/s of the lakes, river systems names of estuaries, territorial water	nces, e s, etc. it ers, FA	tc.; for an inland water taxon use the occurs in; for a marine taxon use
Mexico: Jalisco, Colima, Mich	oacán	
Note: A distribution map showing attached.	the Ext	ent of Occurrence MUST be
3a. Red List Assessment (using the revised 2001 IUCN system), tick (3) one of the following:	A2c+3	Il in the Red List Criteria met (e.g. Bc; B1ab(iii); D) alongside the priate Red List Category
Extinct (EX)		
Extinct in the Wild (EW)		
Critically Endangered (CR)		
Endangered (EN)		
Vulnerable (VU)		

X Near Threatened (NT)	
Least Concern (LC)	
Data Deficient (DD)	
Not Evaluated (NE)	
 Note: If one of the threatened categories is selected (i.e. CR, EN or VU) then ALL the criteria, subcriteria and sub-subcriteria met for that category, must be listed in the box provided. 4. Rationale for the Red List Assessment (Including whatever population or range information were used, inferences, assumptions, etc. For NT specify what criteria were nearly met and for DD specify what little information is known. Use additional sheets if necessary.) 	
This tree has an extent of occurrence greater than 20 000 km², but is restricted to the seasonal forests of the Pacific coastal dry forests of central western Mexico.	
5. Reason for Change in Red List Assessment from that in the 2000 Red List (see www.redlist.org) tick (3) at least one of the following:	
Genuine change in status of species New or better information available	
Incorrect information used previously Taxonomic change affecting the sp	ecies
Previously incorrect application of the Red List Criteria	
6. Current Population Trend (tick (3) one of the following): Increasing Decreasing Stable X Unknown 7. Date of Assessment (day/month/year): 5 th June 2005	
7. Date of Assessment (day/month/year): 5 th June 2005	

8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):
a. Taxonomy (any taxonomic notes of relevance - optional)
 b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
Mexico: Jalisco, Colima, Michoacán
c. Population (for example, population size, abundance (rare, scarce, common, etc.), number and size of subpopulations if known, number of locations and degree of fragmentation)
d. Habitat and Ecology (including particulars about breeding ecology if relevant)

Mesoamerican seasonally dry forest. Habitats Authority:
Forest: 1.5. Subtropical/Tropical Dry
1.5. Subtropical/Tropical Dry
e. Threats (the main threats to the species, and if known, the severity and extent)
Fragmentation and conversion of Mexican tropical semi-seasonal and seasonally dry forest.
Threat Auth: 1.1. Agriculture
1.1.1. Crops
1.1.1.1. Shifting agriculture
1.1.1.2. Small-holder farming
f. Conservation Actions (including presence in protected areas and national legislation)
Known from the Chamela-Cuixmala Biosphere Reserve in Jalisco, Mexico.
g. Utilization

11. Literature References (cited in full) used for the assessment and documentation

McVaugh, R. (1987) *Leguminosae* in Flora Novo-Galiciana vol 5: 1-786; ed Anderson, W. R. University of Michigan Press, Ann Arbor

w³Tropicos (2005). Missouri Botanic Gardens, http://mobot.mobot.org/W3T.

International Legume Database & Information Service (ILDIS) (2005) http://www.ildis.org/

Lott, E.J. (in prep) Listado Anotado De Las Plantas Vasculares De Chamela-Cuixmala

Seasonal/Dry forest conversion and fragmentation:

Trejo, I. & R. Dirzo, (2000) Deforestation of seasonally dry tropical forest: a national and local analysis in Mexico. *Biological Conservation* 94(2): p. 133-142.

<u>Questionnaire</u> (please complete one questionnaire per taxon, extra sheets may be used)

1a. S	Scientific name (including aut	hority	details):
Lon	chocarpus yucatanensis Pittie	er	
	Synonym/s (if there has been ly used)	a taxo	onomic change in the last 5 years or if
1c. E	inglish Common Name (if kr	nown)	
1d. C	Other Common Names (if kno	own ar	nd state language)
2a. C	Order		2b. Family
FAB	ALES		LEGUMINOSAE- PAPILIONOIDEAE
name name	ountry units e.g. states, provir	nces, e , etc. it ers, FA	,
Note attac	: A distribution map showing hed.	the Ex	tent of Occurrence MUST be
the re	Red List Assessment (using evised 2001 IUCN system), 3) one of the following:	A2c+	ill in the Red List Criteria met (e.g. 3c; B1ab(iii); D) alongside the opriate Red List Category
	Extinct (EX)		
	Extinct in the Wild (EW)		
	Critically Endangered (CR)		
	Endangered (EN)		

	<u></u>	
	Vulnerable (VU)	
Х	Near Threatened (NT)	
	Least Concern (LC)	
	Data Deficient (DD)	
	Not Evaluated (NE)	
ALL listed 4. Ra	the criteria, subcriteria and sud in the box provided. ationale for the Red List Assuge information were used, in	tegories is selected (i.e. CR, EN or VU) then sub-subcriteria met for that category, must be sessment (Including whatever population or inferences, assumptions, etc. For NT specify and for DD specify what little information is f necessary.)
		ence greater than 20 000 km ² , but is of the Greater Yucatán Peninsula.
	eason for Change in Red Liss st (see www.redlist.org) tick (3	ist Assessment from that in the 2000 Red (3) at least one of the following:
	Genuine change in status of spe	ecies New or better information available
	Incorrect information used previo	ously Taxonomic change affecting the specie
	Previously incorrect application of	of the Red List Criteria
	urrent Population Trend (tick	

7. Date of Assessment (day/month/year):	4 th June 2005
8. Name/s of the Assessor/s	
J E Gordon	
9. Names of the Evaluators - to be filled in E (at least two, and the name of the Red List Aut	
10. Brief notes i.e. a short narrative, on the top information entered above or on the Authority F sheets if required):	•
a. Taxonomy (any taxonomic notes of relevan-	ce - optional)
b. Geographic Range (including mention of im specify the extent of occurrence and area of	•
Mexico: Campeche, Yucatán, Quintana Ro Guatemala (Peten)	00
c. Population (for example, population size, al common, etc.), number and size of subpopulat locations and degree of fragmentation)	
d. Habitat and Ecology (including particular relevant)	s about breeding ecology if

Mesoamerican seasonally dry forest. Habitats Authority:
Forest:
1.5. Subtropical/Tropical Dry
e. Threats (the main threats to the species, and if known, the severity and extent)
Fragmentation and conversion of Mexican tropical semi-seasonal and seasonally dry forest.
Threat Auth:
1.1. Agriculture 1.1.1. Crops
1.1.1.1. Shifting agriculture
1.1.1.2. Small-holder farming
f. Conservation Actions (including presence in protected areas and national legislation)
Known from the Region of the Calakmul Biosphere Reserve.
g. Utilization

11. Literature References (cited in full) used for the assessment and documentation

w³Tropicos (2005). Missouri Botanic Gardens, http://mobot.mobot.org/W3T.

International Legume Database & Information Service (ILDIS) (2005)

http://www.ildis.org/

Martínez, E., M. Sousa S., and C.H. Ramos Álvarez (2001) *Listados Florísticos de México. Vol. XXII. Région de Calakmul, Campeche*, Mexico City: UNAM.

Seasonal/Dry forest conversion and fragmentation:

Trejo, I. & R. Dirzo, (2000) Deforestation of seasonally dry tropical forest: a national and local analysis in Mexico. *Biological Conservation* 94(2): p. 133-142.

Questionnaire	
(please complete one question	nnaire per taxon, extra sheets may be used)
1a. Scientific name (including au	thority dotails):
Eugenia hondurensis Ant. Molina	,
Eugenia nondurensis Ant. Molina	a
1b. Synonym/s (if there has been widely used)	n a taxonomic change in the last 5 years or if
1c. English Common Name (if k	known)
1d Other Common Names (if kr	nown and state language)
1d. Other Common Names (if kr	lowir and state language)
Guacuco (Spanish)	
2a. Order	2b. Family
MYRTALES	MYRTACEAE
subcountry units e.g. states, prov	ge in terms of countries of occurrence, rinces, etc.; for an inland water taxon use the s, etc. it occurs in; for a marine taxon use ters, FAO fisheries areas)
Honduras, Nicaragua	

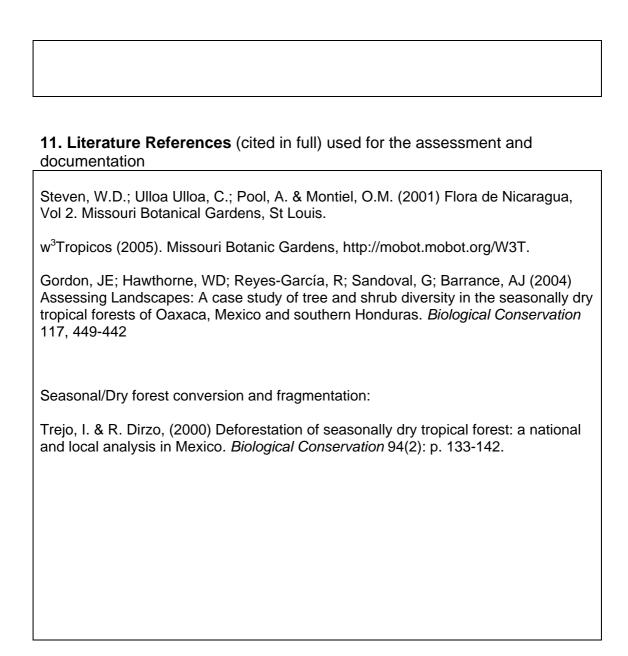
Note: A distribution map showing the Extent of Occurrence **MUST** be attached.

the	Red List Assessment (using revised 2001 IUCN system), (3) one of the following:	3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category
	Extinct (EX)	
	Extinct in the Wild (EW)	
	Critically Endangered (CR)	
	Endangered (EN)	
	Vulnerable (VU)	
X	Near Threatened (NT)	
	Least Concern (LC)	
	Data Deficient (DD)	
	Not Evaluated (NE)	
 Note: If one of the threatened categories is selected (i.e. CR, EN or VU) then ALL the criteria, subcriteria and sub-subcriteria met for that category, must be listed in the box provided. 4. Rationale for the Red List Assessment (Including whatever population or range information were used, inferences, assumptions, etc. For NT specify what criteria were nearly met and for DD specify what little information is known. Use additional sheets if necessary.) 		
km ² spec	and therefore does not qualify	is inferred to be > 20 000 km ² but <100 000 for VU status, however, the range of the disturbed and fragmented seasonal forests in Honduras.

5. Reason for Change in Red List Assessment from that in the 2000 Red List (see www.redlist.org) tick (3) at least one of the following:

Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 27 th May 2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
(at least two, and the name of the Red List Admonty)
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):
a. Taxonomy (any taxonomic notes of relevance - optional)
b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
S Honduras and W Nicaragua

c. Population (for example, population size, abundance (rare, scarce, common, etc.), number and size of subpopulations if known, number of locations and degree of fragmentation)
Locally abundant, including in disturbed habitat.
d. Habitat and Ecology (including particulars about breeding ecology if relevant)
Mesoamerican tropical semi-seasonal and seasonally dry forest. Habitats Authority:
Forest: 1.5. Subtropical/Tropical Dry
e. Threats (the main threats to the species, and if known, the severity and extent)
Fragmentation and conversion of Mexican tropical semi-seasonal and seasonally dry forest.
Threat Auth: 1.1. Agriculture
1.1.1. Crops 1.1.1.1. Shifting agriculture
1.1.1.2. Small-holder farming
f. Conservation Actions (including presence in protected areas and national legislation)
g. Utilization



Questionnaire	
(please complete one questionnaire pe	er taxon, extra sheets may be used)
1a. Scientific name (including authority	,
Grajalesia fasciculata (Standl.) Miranda	
1b. Synonym/s (if there has been a taxo	onomic change in the last 5 years or if
widely used)	S ,
Pisonia fasciculata Standl.	
1c. English Common Name (if known)	
1d. Other Common Names (if known ar	nd state language)
2a. Order	2b. Family
CARYOPHYLLALES	NYCTAGINACEAE
3. Distribution (describe the range in te	
subcountry units e.g. states, provinces, e	
name/s of the lakes, river systems, etc. it	
names of estuaries, territorial waters, FA	O fisheries areas)
Mexico: Colima, Oaxaca	
Guatemala	
El Salvador	
Honduras	

Note: A distribution map showing the Extent of Occurrence **MUST** be attached.

Nicaragua

the r	Red List Assessment (using evised 2001 IUCN system), (3) one of the following:	3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category
	Extinct (EX)	
	Extinct in the Wild (EW)	
	Critically Endangered (CR)	
	Endangered (EN)	
	Vulnerable (VU)	
Х	Near Threatened (NT)	
	Least Concern (LC)	
	Data Deficient (DD)	
	Not Evaluated (NE)	
Note: If one of the threatened categories is selected (i.e. CR, EN or VU) then ALL the criteria, subcriteria and sub-subcriteria met for that category, must be listed in the box provided.		
4. Rationale for the Red List Assessment (Including whatever population or range information were used, inferences, assumptions, etc. For NT specify what criteria were nearly met and for DD specify what little information is		

Extent of occurrence inferred to be > 20 000 km².

known. Use additional sheets if necessary.)

A shrub restricted to seasonally dry tropical forest. This forest type in Mesoamerica continues to be subject to clearance and fragmentation. Within its known range the species is under-collected, suggesting it is not locally common. In particular its northern range (Mexico and Guatemala) is represented by very few collections in MO (Tropicos) and MEXU, and in Nicaragua it is known only from its type. The highly disjunct population structure makes this species highly susceptible to further agricultural expansion within its range.

5. Reason for Change in Red List Assessment from that in the 2000 Red List (see www.redlist.org) tick (3) at least one of the following:

Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 27 th May 2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):
a. Taxonomy (any taxonomic notes of relevance - optional)
b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
Mexico: Colima (?), Oaxaca Guatemala El Salvador Honduras Nicaragua

c. Population (for example, population size, abundance (rare, scarce, common, etc.), number and size of subpopulations if known, number of locations and degree of fragmentation)
Populations are fragmented by agriculture.
d. Habitat and Ecology (including particulars about breeding ecology if relevant)
Habitats Authority:
1.5 Subtropical/Tropical Dry Forest
e. Threats (the main threats to the species, and if known, the severity and extent)
Fragmentation and conversion of Mexican tropical dry forest. Threat Auth: 1.1. Agriculture 1.1.1. Crops 1.1.1.1. Shifting agriculture 1.1.2. Small-holder farming
f. Conservation Actions (including presence in protected areas and national legislation)
g. Utilization

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11. Literature References (cited in full) used for the assessment and

documentation

Pérez-García EA & Meave, JA (2005) Heterogeneity of xerophytic vegetation of limestone outcrops in a tropical deciduous forest region in southern México *Plant Ecology* 175, 147-163

Steven, W.D.; Ulloa Ulloa, C.; Pool, A. & Montiel, O.M. (2001) Flora de Nicaragua, Vol 2. Missouri Botanical Gardens, St Louis.

Gordon, JE; Hawthorne, WD; Reyes-García, R; Sandoval, G; Barrance, AJ (2004) Assessing Landscapes: A case study of tree and shrub diversity in the seasonally dry tropical forests of Oaxaca, Mexico and southern Honduras. *Biological Conservation* 117, 449-442

w³Tropicos (2005). Missouri Botanic Gardens, http://mobot.mobot.org/W3T.

Seasonal/Dry forest conversion and fragmentation:

Janzen, D.H., (1988) *Tropical dry forests: the most endangered major tropical ecosystems*, in Biodiversity, E.O. Wilson, Editor., National Academy Press: Washington DC, USA. p. 130-137.

Murphy, P.G. & A.E. Lugo, (1995) *Dry Forests of Central America and the Caribbean*, in Seasonally Dry Tropical Forests, S.H. Bullock, H.A. Mooney, and E. Medina, Editors. Cambridge University Press: Cambridge. p. 9-34.

RED LIST ASSESSMENT

Questionnaire (please complete one questionnaire per taxon, extra sheets may be used) 1a. Scientific name (including authority details): Ziziphus guatemalensis Hemsl. 1b. Synonym/s (if there has been a taxonomic change in the last 5 years or if widely used) 1c. English Common Name (if known) 1d. Other Common Names (if known and state language) 2a. Order 2b. Family RHAMNALES RHAMNACEAE

3. Distribution (describe the range in terms of countries of occurrence, subcountry units e.g. states, provinces, etc.; for an inland water taxon use the name/s of the lakes, river systems, etc. it occurs in; for a marine taxon use names of estuaries, territorial waters, FAO fisheries areas)

Guatemala, Honduras, Nicaragua, Costa Rica

Note: A distribution map showing the Extent of Occurrence **MUST** be attached.

3a. Red List Assessment (using the revised 2001 IUCN system), tick (3) one of the following:		3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category
	Extinct (EX)	
	Extinct in the Wild (EW)	
	Critically Endangered (CR)	
	Endangered (EN)	
	Vulnerable (VU)	
Χ	Near Threatened (NT)	
	Least Concern (LC)	
	Data Deficient (DD)	
	Not Evaluated (NE)	
 Note: If one of the threatened categories is selected (i.e. CR, EN or VU) then ALL the criteria, subcriteria and sub-subcriteria met for that category, must be listed in the box provided. 4. Rationale for the Red List Assessment (Including whatever population or range information were used, inferences, assumptions, etc. For NT specify what criteria were nearly met and for DD specify what little information is known. Use additional sheets if necessary.) 		
ALL listed 4. Ra ra wh	the criteria, subcriteria and subtraction of the Red List Asset ionale for the Red List Asset information were used, in that criteria were nearly met an anown. Use additional sheets if	b-subcriteria met for that category, must be essment (Including whatever population or ferences, assumptions, etc. For NT specify d for DD specify what little information is necessary.)
ALL listed 4. Ra ra wh	the criteria, subcriteria and sud in the box provided. Ationale for the Red List Assume information were used, in that criteria were nearly met an	b-subcriteria met for that category, must be essment (Including whatever population or ferences, assumptions, etc. For NT specify d for DD specify what little information is necessary.)

5. Reason for Change in Red List Assessment from that in the 2000 Red List (see www.redlist.org) tick (3) at least one of the following:

Genuine change in status of species New or better information available
Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 30 th May 2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):
a. Taxonomy (any taxonomic notes of relevance - optional)
 b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
Pacific costal plain of Guatemala, Honduras, Nicaragua, Costa Rica

c. Population (for example, population size, abundance (rare, scarce, common, etc.), number and size of subpopulations if known, number of locations and degree of fragmentation)
Populations fragmented by agriculture.
d. Habitat and Ecology (including particulars about breeding ecology if relevant)
Habitats Authority:
1.5 Subtropical/Tropical Dry Forest
e. Threats (the main threats to the species, and if known, the severity and extent)
Fragmentation and conversion of Mexican tropical dry forest.
Threat Auth:
1.1. Agriculture 1.1.1. Crops
1.1.1.1. Shifting agriculture 1.1.1.2. Small-holder farming
1.3.3 Wood
1.3.3.1 Small scale subsistence
f. Conservation Actions (including presence in protected areas and national legislation)
Reported from the Guanacaste Conservation Area
g. Utilization

11. Literature References (cited in full) used for the assessment and

documentation

Steven, W.D.; Ulloa Ulloa, C.; Pool, A. & Montiel, O.M. (2001) *Flora de Nicaragua*, Missouri Botanical Gardens, St Louis.

Janzen, D.H. & Liesner, R. (1980) Annotated checklist of plants of lowland Guanacaste Province, Costa Rica, exclusive of grasses and non-vascular cryptograms. Brenesia, 18, 15-90.

w3Tropicos (2005). Missouri Botanic Gardens, http://mobot.mobot.org/W3T.

Seasonal/Dry forest conversion and fragmentation:

Janzen, D.H., (1988) *Tropical dry forests: the most endangered major tropical ecosystems*, in Biodiversity, E.O. Wilson, Editor., National Academy Press: Washington DC, USA. p. 130-137.

Murphy, P.G. & A.E. Lugo, (1995) *Dry Forests of Central America and the Caribbean*, in Seasonally Dry Tropical Forests, S.H. Bullock, H.A. Mooney, and E. Medina, Editors. Cambridge University Press: Cambridge. p. 9-34.

RED LIST ASSESSMENT

Questionnaire

(please complete one questionnaire per taxon, extra sheets may be used)

1a. Scientific name (including authority details):		
Randia longiloba Hemsl.		
1b. Synonym/s (if there has been a taxonomic change in the last 5 years or if widely used)		
1c. English Common Name (if known)		
1d. Other Common Names (if known ar	nd state language)	
2a. Order	2b. Family	
RUBIALES	RUBIACEAE	
3. Distribution (describe the range in terms of countries of occurrence, subcountry units e.g. states, provinces, etc.; for an inland water taxon use the name/s of the lakes, river systems, etc. it occurs in; for a marine taxon use names of estuaries, territorial waters, FAO fisheries areas) Mexico: Campeche, Yucatán, Quintana Roo		
moxico: Campoono, Facatari, Quintana		

Note: A distribution map showing the Extent of Occurrence **MUST** be attached.

the r	Red List Assessment (using evised 2001 IUCN system), (3) one of the following:	3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category
	Extinct (EX)	
	Extinct in the Wild (EW)	
	Critically Endangered (CR)	
	Endangered (EN)	
	Vulnerable (VU)	
Х	Near Threatened (NT)	
	Least Concern (LC)	
	Data Deficient (DD)	
	Not Evaluated (NE)	
4. Ra ra wl	nge information were used, in	sessment (Including whatever population or ferences, assumptions, etc. For NT specify and for DD specify what little information is necessary.)
Extent of occurrence inferred to be > 20 000 km² but <100 000 km². A shrub restricted to seasonally dry tropical forest of the north of Mexico's Yucatán Peninsula where this forest type continues to be subject to clearance and fragmentation.		
Li	eason for Change in Red Lisst (see www.redlist.org) tick (3	

Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7 Data of Accessment (day/month/year).
7. Date of Assessment (day/month/year): 31 th May 2005
8. Name/s of the Assessor/s
J E Gordon
O Names of the Evaluators, to be filled in Dy Red Liet Authority ONLY
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
10. Brief notes i.e. a short narrative, on the topics below to complement the
information entered above or on the Authority Files in Annex 1 (use additional sheets if required):
a. Taxonomy (any taxonomic notes of relevance - optional)
b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
Mexico: Campeche, Yucatán, Quintana Roo

c. Population (for example, population size, abundance (rare, scarce, common, etc.), number and size of subpopulations if known, number of locations and degree of fragmentation)

d. Habitat and Ecology (including particulars about breeding ecology if relevant)
Habitats Authority:
Forest: 1.5. Subtropical/Tropical Dry
e. Threats (the main threats to the species, and if known, the severity and extent)
Fragmentation and conversion of Mexican tropical dry forest.
Threat Auth:
1.1. Agriculture
1.1.1. Crops 1.1.1.1. Shifting agriculture
1.1.1.2. Small-holder farming
f. Conservation Actions (including presence in protected areas and national legislation)
Known from the Calakmul Biosphere Reserve, Campeche, Mexico
g. Utilization

11. Literature References (cited in full) used for the assessment and documentation

w³Tropicos (2005). Missouri Botanic Gardens, http://mobot.mobot.org/W3T.

Hawthorne, W H & Hughes C E (unpublished) *Draft annotated checklistr for seasonal forest of Quintana Roo, Mexico, DFID*

Martínez, E., M. Sousa S., and C.H. Ramos Álvarez (2001) *Listados Florísticos de México. Vol. XXII. Région de Calakmul, Campeche*, Mexico City: UNAM.

Andersson, L. (1992) A provisional checklist of Neotropical Rubiaceae *Scripta Botanica Belgica* 1

Seasonal/Dry forest conversion and fragmentation:

Trejo, I. & R. Dirzo, (2000) Deforestation of seasonally dry tropical forest: a national and local analysis in Mexico. *Biological Conservation* 94(2): p. 133-142.

RED LIST ASSESSMENT

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Ques	tıon	naıre

(please complete one questionnaire per taxon, extra sheets may be used)

1a. Scientific name (including authority details):	
Heliocarpus attenuatus S. Watson	
1b. Synonym/s (if there has been a taxowidely used)	onomic change in the last 5 years or if
1c. English Common Name (if known)	
1d. Other Common Names (if known ar	nd state language)
2a. Order	2b. Family
2a. Order MALVALES	2b. Family TILIACEAE

Note: A distribution map showing the Extent of Occurrence **MUST** be attached.

the re	Red List Assessment (using evised 2001 IUCN system), 3) one of the following:	3b. Fill in the Red List Criteria met (e.g. A2c+3c; B1ab(iii); D) alongside the appropriate Red List Category
	Extinct (EX)	
	Extinct in the Wild (EW)	
	Critically Endangered (CR)	
	Endangered (EN)	
	Vulnerable (VU)	
Х	Near Threatened (NT)	
	Least Concern (LC)	
	Data Deficient (DD)	
	Not Evaluated (NE)	
4. Ra ra wh	nge information were used, in	sessment (Including whatever population or ferences, assumptions, etc. For NT specify and for DD specify what little information is necessary.)
A sm	Extent of occurrence inferred to be > 20 000 km² but <100 000 km². A small tree restricted to seasonally dry tropical forest of Sonora and Mexico in NW Mexico where this forest type continues to be subject to clearance and fragmentation.	
	eason for Change in Red Lis st (see <u>www.redlist.org</u>) tick (3	at Assessment from that in the 2000 Red b) at least one of the following:

Incorrect information used previously Taxonomic change affecting the species
Previously incorrect application of the Red List Criteria
6. Current Population Trend (tick (3) one of the following):
Increasing Decreasing Stable X Unknown
7. Date of Assessment (day/month/year): 3rd June 2005
8. Name/s of the Assessor/s
J E Gordon
9. Names of the Evaluators - to be filled in By Red List Authority ONLY (at least two, and the name of the Red List Authority)
(at loads two, and the hame of the real Electricationty)
10. Brief notes i.e. a short narrative, on the topics below to complement the information entered above or on the Authority Files in Annex 1 (use additional sheets if required):
a. Taxonomy (any taxonomic notes of relevance - optional)
 b. Geographic Range (including mention of important sites, and if known specify the extent of occurrence and area of occupancy)
Mexico: Chihuahua, Sonora

c. Population (for example, population size, abundance (rare, scarce, common, etc.), number and size of subpopulations if known, number of locations and degree of fragmentation)

d. Habitat and Ecology (including particulars about breeding ecology if relevant)		
Habitats Authority:		
Forest: 1.5. Subtropical/Tropical Dry Scrubland 3.5 Subtropical/Tropical Dry		
e. Threats (the main threats to the species, and if known, the severity and extent)		
Fragmentation and conversion of Mexican tropical dry forest.		
Threat Auth: 1.1. Agriculture		
1.1.1. Crops 1.1.1.1. Shifting agriculture		
1.1.1.2. Small-holder farming		
f. Conservation Actions (including presence in protected areas and national legislation)		
g. Utilization		
g. otinzation		

11. Literature References (cited in full) used for the assessment and documentation

w³Tropicos (2005). Missouri Botanic Gardens, http://mobot.mobot.org/W3T.

Fishbein, M., Wilson, R.K., Yetman, D.A., Jenkins, P., & Martin, P.S. (1998).

Annotated list of Río Mayo vascular plants. In *Gentry's Río Mayo Plants: The tropical deciduous forest and environs of northwest Mexico*. eds P.S. Martin, D.A. Yetman, M. Fishbien, P. Jenkins, T.R. van Devender & R.K. Wilson, pp. 167-522. University of Arizona Press, Tuscon.

Seasonal/Dry forest conversion and fragmentation:

Trejo, I. & R. Dirzo, (2000) Deforestation of seasonally dry tropical forest: a national and local analysis in Mexico. *Biological Conservation* 94(2): p. 133-142.