

# Collection in Dhofar Sultanate of Oman 2001

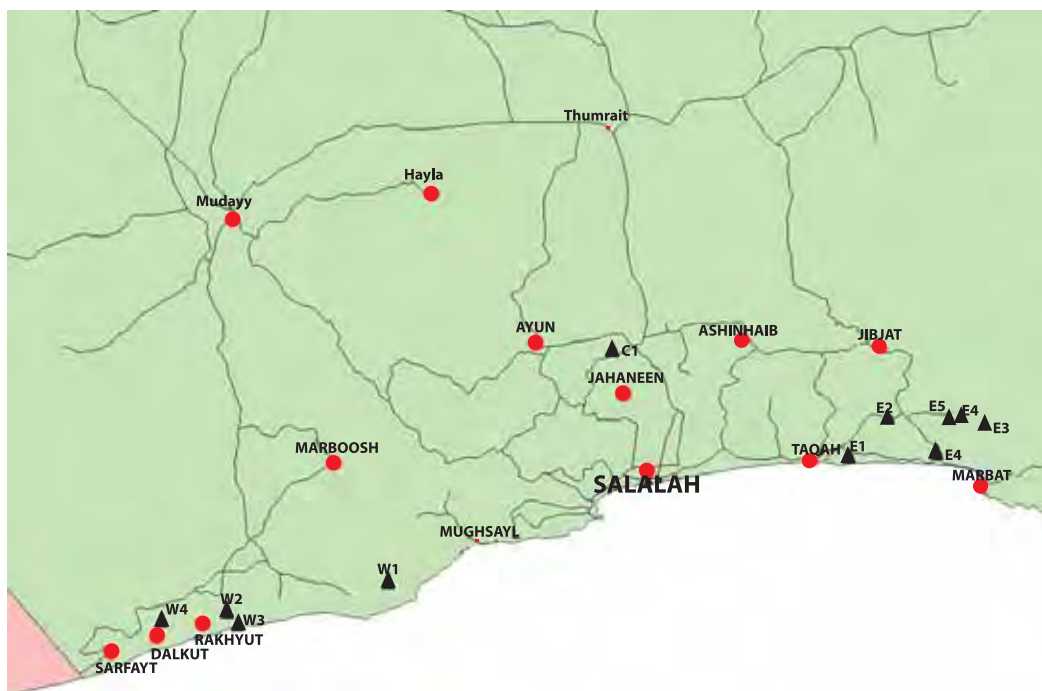




Plate 1 Dhofar/Oman - *Acacia nilotica*

**Genus:** *Acacia*                      **Family:** Leguminosae  
**Species:** *nilotica*  
**Sub-species:** *indica* ?  
**Local name:** qarat  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Mohamed Bin Ali Al Awid and Ahmed Awad Bakir  
**Collection date:** 11/11/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman    **Governorate:** Dhofar  
**Latitude:** N17 06 59    **Longitude:** E54 39 15  
**Altitude:** 1014 m    **Rainfall:** 80 mm  
**Location:** Samhan 2 (lower elevation on Jebal Samhan)  
**Habitat/Site:** Rangeland  
**Dominant species:**  
**Grazing pressure:** High  
**Seed collected:** Y  
**Species frequency:** Frequent  
**Species remarks:** *Cissus quadrangularis* (parasitic plant) was noted smothering the *Acacia* shrubs  
**Soil texture:** Clay                      **Depth:** 10-15 cm  
**Parent rock:** Limestone  
**Slope:** Undulating



Plate 2 Dhofar/Oman - *Acacia etbaica*

**Genus:** *Acacia*                      **Family:** Leguminosae  
**Species:** *etbaica*  
**Sub-species:**  
**Local name:** saab  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Masalam Ali Hardan and Ahmed Mosalam Al Amri  
**Collection date:** 11/13/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman    **Governorate:** Dhofar  
**Latitude:** N16 49 195    **Longitude:** E53 37 453  
**Altitude:** 1065 m    **Rainfall:** <100 mm  
**Location:** Shahab Isaeib (Geishan Mountains)  
**Habitat/Site:** Rangeland  
**Dominant species:** *Dracaena serrulata* (airoub), *Dichanthium micranthum* (zadrut), *Loudetia falvida* (ahier) and *Dactyloctenium scindicum* (kazareit)  
**Grazing pressure:** High  
**Seed collected:** Y  
**Species frequency:** Scattered  
**Species remarks:**  
**Soil texture:** Stones/Rocky    **Depth:** <30 cm  
**Parent rock:** Limestone  
**Slope:** Steep (>30%)



Plate 3 Dhofar/Oman - *Acacia gerardi*

**Genus:** *Acacia*                      **Family:** Leguminosae  
**Species:** *gerardi*  
**Sub-species:**  
**Local name:** talh  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Mohamed Bin Ali Al Awid and Ahmed Awad Bakir  
**Collection date:** 11/11/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman    **Governorate:** Dhofar  
**Latitude:** N17 06 49    **Longitude:** E54 38 12  
**Altitude:** 937 m    **Rainfall:** 100 mm  
**Location:** Karhanut, 56 km from Samhan  
**Habitat/Site:** Rangeland  
**Dominant species:** *Acacia gerardi*, *A. nilotica*  
**Grazing pressure:** High  
**Seed collected:** Y  
**Species frequency:** Scattered  
**Species remarks:** *Cissus quadrangularis* (parasitic plant) was noted smothering the *Acacia* shrubs  
**Soil texture:** Clay                      **Depth:** 20 cm  
**Parent rock:** Limestone  
**Slope:** Undulating



Plate 4 Dhofar/Oman - *Acacia laeta*

**Genus:** *Acacia*                      **Family:** Leguminosae  
**Species:** *laeta*  
**Sub-species:**  
**Local name:** thour  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Masalam Ali Hardan and Ahmed Mosalam Al Amri  
**Collection date:** 11/14/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman    **Governorate:** Dhofar  
**Latitude:** N16 45 03    **Longitude:** E53 13 06  
**Altitude:** 645 m    **Rainfall:** >150 mm  
**Location:** Wadi Saiq (close to Yemen borders on a narrow road before Dalkut town)  
**Habitat/Site:** Woodland or marginal forest  
**Dominant species:** *Acacia* spp.  
**Grazing pressure:** High  
**Seed collected:** Y  
**Species frequency:** Scattered  
**Species remarks:**  
**Soil texture:** Stones/Rocky    **Depth:** >50 cm  
**Parent rock:** Limestone  
**Slope:** Mountainous



Plate 5 Dhofar/Oman - *Acacia senegal*

**Genus:** *Acacia*                      **Family:** Leguminosae  
**Species:** *senegal*  
**Sub-species:**  
**Local name:** thour  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Mohamed Bin Ali Al Awid and Ahmed Awad Bakir  
**Collection date:** 11/11/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman    **Governorate:** Dhofar  
**Latitude:** N17 06 49    **Longitude:** E54 31 21  
**Altitude:** 647 m    **Rainfall:** >220-250 mm  
**Location:** Tawi Ateir (few km from Wadi Dirban)  
**Habitat/Site:** Protected or enclosed  
**Dominant species:** *Themeda quadrivalis*, *Apluda mutica* (both highly palatable annual grasses), *Dichanthium aristatum* (zadrut), *Acacia senegal*  
**Grazing pressure:** None  
**Seed collected:** N  
**Species frequency:** Scattered  
**Species remarks:** Good recovery of annual and perennial species due to protection from grazing  
**Soil texture:** Clay    **Depth:** >30 cm  
**Parent rock:** Limestone  
**Slope:** Level (0-3%)



Plate 6-1 Dhofar/Oman - *Anogeissus dhofarica*

**Genus:** *Anogeissus*                      **Family:** Combretaceae  
**Species:** *dhofarica*  
**Sub-species:**  
**Local name:** mushat  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Mohamed Bin Ali Al Awid and Ahmed Awad Bakir  
**Collection date:** 11/11/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman    **Governorate:** Dhofar  
**Latitude:** N17 05 915    **Longitude:** E54 27 07  
**Altitude:** 220 m    **Rainfall:** 200 mm  
**Location:** Wadi Dirban (river bank). We drove 29 km east from Salalah, then turned north for about 11 km  
**Habitat/Site:** Woodland or marginal forest  
**Dominant species:** *Anogeissus dhofarica*, *Ziziphus spina-christi*  
**Grazing pressure:** High  
**Seed collected:** Y  
**Species frequency:** Clumped  
**Species remarks:** Permanent spring and crowded with camels and cattle. The pasture has been grazed to the ground. Trees showing grazing line  
**Soil texture:** Sandy loam    **Depth:** 100 cm  
**Parent rock:** Limestone  
**Slope:** Level (0-3%)



Plate 6-2 Dhofar/Oman - *Anogeissus dhofarica*

**Genus:** *Anogeissus*                      **Family:** Combretaceae  
**Species:** *dhofarica*  
**Sub-species:**  
**Local name:** mushat  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Masalam Ali Hardan and Ahmed Mosalam Al Amri  
**Collection date:** 11/13/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman            **Governorate:** Dhofar  
**Latitude:** N16 46 12        **Longitude:** E53 20 07  
**Altitude:** 850 m            **Rainfall:** 300 mm  
**Location:** Anatokh 18 km northwest of Rakhut town  
**Habitat/Site:** Woodland or marginal forest  
**Dominant species:** *Anogeissus dhofarica*, *Ormocarpum dhofarense* (palatable to all livestock), *Blepharis dhofarense*, *Blepharispermum hirtum*, *Acacia senegal*  
**Grazing pressure:** Low  
**Seed collected:** Y  
**Species frequency:** Well represented  
**Species remarks:** Low animal population, probably due to the rough terrain  
**Soil texture:** Clayloam                      **Depth:** 50-100 cm  
**Parent rock:** Limestone  
**Slope:** Mountainous



Plate 7 Dhofar/Oman - *Apluda mutica*

**Genus:** *Apluda*                              **Family:** Poaceae  
**Species:** *mutica*  
**Sub-species:**  
**Local name:** shabdaf  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Mohamed Bin Ali Al Awid and Ahmed Awad Bakir  
**Collection date:** 11/11/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman            **Governorate:** Dhofar  
**Latitude:** N17 06 49        **Longitude:** E54 31 21  
**Altitude:** 649 m            **Rainfall:** 220-250 mm  
**Location:** Tawi Ateir (few km from Wadi Dirban)  
**Habitat/Site:** Protected or enclosed  
**Dominant species:** *Themeda quadrivalis*, *Apluda mutica* (both highly palatable annual grasses), *Dichanthium aristatum* (zadrut), *Acacia senegal*  
**Grazing pressure:** None  
**Seed collected:** Y  
**Species frequency:** Dense  
**Species remarks:** Good recovery of annual and perennial species due to protection from grazing  
**Soil texture:** Clay                              **Depth:** >30 cm  
**Parent rock:** Limestone  
**Slope:** Level (0-3%)



Plate 8 Dhofar/Oman - *Blepharis dhofarensis*

**Genus:** *Blepharis*                      **Family:** Compositae  
**Species:** *dhofarensis*  
**Sub-species:**  
**Local name:** aayloub  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Masalam Ali Hardan and Ahmed Mosalam Al Amri  
**Collection date:** 11/13/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman      **Governorate:** Dhofar  
**Latitude:** N16 46 12      **Longitude:** E53 20 07  
**Altitude:** 850 m      **Rainfall:** 300 mm  
**Location:** Anatokh 18 km northwest of Rakhut town  
**Habitat/Site:** Woodland or marginal forest  
**Dominant species:** *Anogeissus dhofarica*, *Ormocarpum dhofarensis* (palatable to all livestock), *Blepharis dhofarensis*, *Blepharispermum hirtum*, *Acacia senegal*  
**Grazing pressure:** Low  
**Seed collected:** N  
**Species frequency:** Well represented  
**Species remarks:** Low animal population, probably due to the rough terrain  
**Soil texture:** Clayloam                      **Depth:** 50-100 cm  
**Parent rock:** Limestone  
**Slope:** Mountainous



Plate 9 Dhofar/Oman - *Blepharispermum hirtum*

**Genus:** *Blepharispermum*                      **Family:** Compositae  
**Species:** *hirtum*  
**Sub-species:**  
**Local name:** khafut  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Masalam Ali Hardan and Ahmed Mosalam Al Amri  
**Collection date:** 11/13/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman      **Governorate:** Dhofar  
**Latitude:** N16 46 12      **Longitude:** E53 20 07  
**Altitude:** 850 m      **Rainfall:** 300 mm  
**Location:** Anatokh 18 km northwest of Rakhut town  
**Habitat/Site:** Woodland or marginal forest  
**Dominant species:** *Anogeissus dhofarica*, *Ormocarpum dhofarensis* (palatable to all livestock), *Blepharis dhofarensis*, *Blepharispermum hirtum*, *Acacia senegal*  
**Grazing pressure:** Low  
**Seed collected:** N  
**Species frequency:** Well represented  
**Species remarks:** Low animal population, probably due to the rough terrain  
**Soil texture:** Clayloam                      **Depth:** 50-100 cm  
**Parent rock:** Limestone  
**Slope:** Mountainous



Plate 10 Dhofar/Oman - *Cenchrus biflorus*

**Genus:** *Cenchrus*                      **Family:** Poaceae  
**Species:** *biflorus*  
**Sub-species:**  
**Local name:** Athath  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Masalam Ali Hardan and Ahmed Mosalam Al Amri  
**Collection date:** 11/13/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman    **Governorate:** Dhofar  
**Latitude:** N16 49 195    **Longitude:** E53 37 453  
**Altitude:** 1065 m    **Rainfall:** <100 mm  
**Location:** Shahab Isaeb (Geishan Mountains)  
**Habitat/Site:** Rangeland  
**Dominant species:** *Dracaena serrulata* (airoub), *Dichanthium micranthum* (zadrut), *Loudetia falvida* (ahier) and *Dactyloctenium scindicum* (kazareit)  
**Grazing pressure:** High  
**Seed collected:** Y  
**Species frequency:** Clumped  
**Species remarks:** Perennial grasses are surviving on water harvesting along roadside  
**Soil texture:** Stones/Rocky    **Depth:** <30 cm  
**Parent rock:** Limestone  
**Slope:** Steep (>30%)



Plate 11 Dhofar/Oman - *Cyperus rotundus*

**Genus:** *Cyperus*                      **Family:** Cyperaceae  
**Species:** *rotundus*  
**Sub-species:**  
**Local name:** sadoot  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Mohamed Bin Ali Al Awid and Ahmed Awad Bakir  
**Collection date:** 11/11/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman    **Governorate:** Dhofar  
**Latitude:** N17 05 915    **Longitude:** E54 27 07  
**Altitude:** 220 m    **Rainfall:** 200 mm  
**Location:** Wadi Dirban (river bank). We drove 29 km east from Salalah, then turned north for about 11 km  
**Habitat/Site:** Woodland or marginal forest  
**Dominant species:** *Anogeissus dhofarica*, *Ziziphus spina-christi*  
**Grazing pressure:** High  
**Seed collected:** N  
**Species frequency:** Scattered  
**Species remarks:** Permanent spring and crowded with camels and cattles. The pasture has been grazed to the ground. Trees showing grazing line  
**Soil texture:** Sandy loam    **Depth:** 100 cm  
**Parent rock:** Limestone  
**Slope:** Level (0-3%)



Plate 12-1 Dhofar/Oman - *Dactyloctenium scindicum*

**Genus:** *Dactyloctenium*      **Family:** Poaceae  
**Species:** *scindicum*  
**Sub-species:**  
**Local name:** kazareet  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Salem Bin Mosalam Geid and Ahmed Suhail Al Marhoun  
**Collection date:** 11/12/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman      **Governorate:** Dhofar  
**Latitude:** N17 14 25      **Longitude:** E54 01 43  
**Altitude:** 921 m      **Rainfall:** 200 mm  
**Location:** Hajif, 18 km north of Salalah  
**Habitat/Site:** Protected or enclosed  
**Dominant species:** *Dyschoriste dalyi* (dafeid)  
**Grazing pressure:** None  
**Seed collected:** Y  
**Species frequency:** Frequent  
**Species remarks:** Perennial grasses are producing seeds (rainfall 200 mm) due to protection from grazing  
**Soil texture:** Clay      **Depth:** >30 cm  
**Parent rock:** Limestone  
**Slope:** Sloping (16-30)



Plate 12-2 Dhofar/Oman - *Dactyloctenium scindicum*

**Genus:** *Dactyloctenium*      **Family:** Poaceae  
**Species:** *scindicum*  
**Sub-species:**  
**Local name:** kazareet  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Masalam Ali Hardan and Ahmed Mosalam Al Amri  
**Collection date:** 11/13/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman      **Governorate:** Dhofar  
**Latitude:** N16 49 195      **Longitude:** E53 37 453  
**Altitude:** 1065 m      **Rainfall:** <100 mm  
**Location:** Shahab Isaeib (Geishan Mountains)  
**Habitat/Site:** Rangeland  
**Dominant species:** *Dracaena serrulata* (airoub), *Dichanthium micranthum* (zadrut), *Loudetia falvida* (ahier) and *Dactyloctenium scindicum* (kazareit)  
**Grazing pressure:** High  
**Seed collected:** N  
**Species frequency:** Clumped  
**Species remarks:** Perennial grasses are surviving on water harvesting along roadside  
**Soil texture:** Stones/Rocky      **Depth:** <30 cm  
**Parent rock:** Limestone  
**Slope:** Steep (>30%)



Plate 14 Dhofar/Oman - *Dactyloctenium* sp.

**Genus:** *Dactyloctenium*      **Family:** Poaceae  
**Species:**  
**Sub-species:**  
**Local name:** kazareet  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Salem Bin Mosalam Geid and Ahmed Suhail Al Marhoun  
**Collection date:** 11/12/2001  
**Identified by:** Ahmed Osman  
**Country:** Oman      **Governorate:** Dhofar  
**Latitude:** N17 14 25      **Longitude:** E54 01 43  
**Altitude:** 921 m      **Rainfall:** 200 mm  
**Location:** Hajif, 18 km north of Salalah  
**Habitat/Site:** Protected or enclosed  
**Dominant species:** *Dyschoriste dalyi* (dafeid)  
**Grazing pressure:** None  
**Seed collected:** Y  
**Species frequency:** Frequent  
**Species remarks:** Perennial grasses are producing seeds (rainfall 200 mm) due to protection from grazing  
**Soil texture:** Clay      **Depth:** >30 cm  
**Parent rock:** Limestone  
**Slope:** Sloping (16-30)



Plate 13 Dhofar/Oman - *Delonix elata*

**Genus:** *Delonix*      **Family:** Leguminosae  
**Species:** *elata*  
**Sub-species:**  
**Local name:** areir  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Mohamed Bin Ali Al Awid and Ahmed Awad Bakir  
**Collection date:** 11/11/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman      **Governorate:** Dhofar  
**Latitude:** N17 03 12      **Longitude:** E54 36 33  
**Altitude:** 325 m      **Rainfall:** 250 mm  
**Location:** Wadi Hashir  
**Habitat/Site:** Forest  
**Dominant species:** *Acacia nilotica*  
**Grazing pressure:** High  
**Seed collected:** N  
**Species frequency:** Scattered  
**Species remarks:** Medicinal plant  
**Soil texture:** Clay      **Depth:** 10-15 cm  
**Parent rock:** Limestone  
**Slope:** Mountainous



Plate 15 Dhofar/Oman - *Dichanthium foveolatum*

**Genus:** *Dichanthium*      **Family:** Poaceae  
**Species:** *foveolatum*  
**Sub-species:**  
**Local name:** zadrut  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Mohamed Bin Ali Al Awid and Ahmed Awad Bakir  
**Collection date:** 11/11/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman      **Governorate:** Dhofar  
**Latitude:** N17 06 49      **Longitude:** E54 31 21  
**Altitude:** 647 m      **Rainfall:** 220-250 mm  
**Location:** Tawi Ateir (few km from Wadi Dirban)  
**Habitat/Site:** Protected or enclosed  
**Dominant species:** *Themeda quadrivalis*, *Apluda mutica* (both highly palatable annual grasses), *Dichanthium foveolatum* (zadrut), *Acacia senegal*  
**Grazing pressure:** None  
**Seed collected:** N  
**Species frequency:** Scattered  
**Species remarks:** Palatable perennial grass  
**Soil texture:** Clay      **Depth:** >30 cm  
**Parent rock:** Limestone  
**Slope:** Level (0-3%)



Plate 16 Dhofar/Oman - *Dichanthium micranthum*

**Genus:** *Dichanthium*      **Family:** Poaceae  
**Species:** *micranthum*  
**Sub-species:**  
**Local name:** zadrut  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Masalam Ali Hardan and Ahmed Mosalam Al Amri  
**Collection date:** 11/13/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman      **Governorate:** Dhofar  
**Latitude:** N16 49 195      **Longitude:** E53 37 453  
**Altitude:** 1065 m      **Rainfall:** <100 mm  
**Location:** Shahab Isaeib (Geishan Mountains)  
**Habitat/Site:** Rangeland  
**Dominant species:** *Dracaena serrulata* (airoub), *Dichanthium micranthum* (zadrut), *Loudetia falvida* (ahier) and *Dactyloctenium scindicum* (kazareit)  
**Grazing pressure:** High  
**Seed collected:** N  
**Species frequency:** Clumped  
**Species remarks:** Perennial grasses are surviving on water harvesting along roadside  
**Soil texture:** Stones/Rocky      **Depth:** <30 cm  
**Parent rock:** Limestone  
**Slope:** Steep (>30%)



Plate 17 Dhofar/Oman - *Dodonaea angustifolia*

**Genus:** *Dodonaea* **Family:** Sapindaceae  
**Species:** *angustifolia*  
**Sub-species:**  
**Local name:** sheraz  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Masalam Ali Hardan and Ahmed Mosalam Al Amri  
**Collection date:** 11/11/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman **Governorate:** Dhofar  
**Latitude:** N17 06 09 **Longitude:** E54 41 53  
**Altitude:** 1255 m **Rainfall:** 80 mm  
**Location:** Jebal Samhan  
**Habitat/Site:** Rangeland  
**Dominant species:** *Euphorbia balsamiphora* (the juice is used locally to produce 'Elka'), *Solanum incanum* (indicator of overgrazing, and *Dodonaea angustifolia* (unpalatable species also found in other areas overgrazed)  
**Grazing pressure:** High  
**Seed collected:** N  
**Species frequency:** Frequent  
**Species remarks:** Several species are non-palatable  
**Soil texture:** Clayloam **Depth:** 10-15 cm  
**Parent rock:** Limestone  
**Slope:** Mountainous



Plate 18 Dhofar/Oman - *Dracaena serrulata*

**Genus:** *Dracaena* **Family:** Agavaceae  
**Species:** *serrulata*  
**Sub-species:**  
**Local name:** airoub  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Masalam Ali Hardan and Ahmed Mosalam Al Amri  
**Collection date:** 11/13/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman **Governorate:** Dhofar  
**Latitude:** N16 49 195 **Longitude:** E53 37 453  
**Altitude:** 1065 m **Rainfall:** <100 mm  
**Location:** Shahab Isaeib (Geishan Mountains)  
**Habitat/Site:** Rangeland  
**Dominant species:** *Dracaena serrulata* (airoub), *Dichanthium micranthum* (zadrut), *Loudetia falvida* (ahier) and *Dactyloctenium scindicum* (kazareit)  
**Grazing pressure:** High  
**Seed collected:** N  
**Species frequency:** Scattered  
**Species remarks:** The species was used for making robes in the past  
**Soil texture:** Stones/Rocky **Depth:** <30 cm  
**Parent rock:** Limestone  
**Slope:** Steep (>30%)



Plate 19 Dhofar/Oman - *Dyschoriste dalyi*

**Genus:** *Dyschoriste*      **Family:** Acanthaceae  
**Species:** *dalyi*  
**Sub-species:**  
**Local name:** dafeid  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Salem Bin Mosalam Geid and Ahmed Suhail Al Marhoun  
**Collection date:** 11/12/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman      **Governorate:** Dhofar  
**Latitude:** N17 14 25      **Longitude:** E54 01 43  
**Altitude:** 921 m      **Rainfall:** 200 mm  
**Location:** Hajif, 18 km north of Salalah  
**Habitat/Site:** Protected or enclosed  
**Dominant species:** *Dyschoriste dalyi* (dafeid)  
**Grazing pressure:** None  
**Seed collected:** Y  
**Species frequency:** Frequent  
**Species remarks:** Good grazing value, very much affected by grazing pressure outside the fence  
**Soil texture:** Clay      **Depth:** >30 cm  
**Parent rock:** Limestone  
**Slope:** Sloping (16-30)



Plate 20 Dhofar/Oman - *Euphorbia balsamiphora*

**Genus:** *Euphorbia*      **Family:** Euphorbiaceae  
**Species:** *balsamiphora*  
**Sub-species:**  
**Local name:** tashqout  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Salem Bin Mosalam Geid and Ahmed Suhail Al Marhoun  
**Collection date:** 11/12/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman      **Governorate:** Dhofar  
**Latitude:** N17 14 25      **Longitude:** E54 01 43  
**Altitude:** 921 m      **Rainfall:** 200 mm  
**Location:** Hajif, 18 km north of Salalah  
**Habitat/Site:** Protected or enclosed  
**Dominant species:** *Dyschoriste dalyi* (dafeid)  
**Grazing pressure:** None  
**Seed collected:** Y  
**Species frequency:** Frequent  
**Species remarks:** Medicinal plant also used for producing gum 'elka' by local people  
**Soil texture:** Clay      **Depth:** >30 cm  
**Parent rock:** Limestone  
**Slope:** Sloping (16-30)



Plate 21 Dhofar/Oman - *Ficus sycomorus*

**Genus:** *Ficus*                      **Family:** Moraceae  
**Species:** *sycomorus*  
**Sub-species:**  
**Local name:** qadait  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Mohamed Bin Ali Al Awid and Ahmed Awad Bakir  
**Collection date:** 11/11/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman      **Governorate:** Dhofar  
**Latitude:** N17 05 915      **Longitude:** E54 27 07  
**Altitude:** 220 m      **Rainfall:** 200 mm  
**Location:** Wadi Dirban (river bank). We drove 29 km east from Salalah, then turned north for about 11 km  
**Habitat/Site:** Woodland or marginal forest  
**Dominant species:** *Anogeissus dhofarica*, *Ziziphus spinachristi*  
**Grazing pressure:** High  
**Seed collected:** N  
**Species frequency:** Scattered  
**Species remarks:** Permanent spring and crowded with camels and cattle. The pasture has been grazed to the ground. Trees showing grazing line  
**Soil texture:** Sandy loam      **Depth:** 100 cm  
**Parent rock:** Limestone  
**Slope:** Level (0-3%)



Plate 22 Dhofar/Oman - *Ficus vasta*

**Genus:** *Ficus*                      **Family:** Moraceae  
**Species:** *vasta*  
**Sub-species:**  
**Local name:** teeq  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Mohamed Bin Ali Al Awid and Ahmed Awad Bakir  
**Collection date:** 11/11/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman      **Governorate:** Dhofar  
**Latitude:** N17 05 915      **Longitude:** E54 27 07  
**Altitude:** 220 m      **Rainfall:** 200 mm  
**Location:** Wadi Dirban (river bank). We drove 29 km east from Salalah, then turned north for about 11 km  
**Habitat/Site:** Woodland or marginal forest  
**Dominant species:** *Anogeissus dhofarica*, *Ziziphus spinachristi*  
**Grazing pressure:** High  
**Seed collected:** N  
**Species frequency:** Scattered  
**Species remarks:** Permanent spring and crowded with camels and cattles. The pasture has been grazed to the ground. Trees showing grazing line  
**Soil texture:** Sandy loam      **Depth:** 100 cm  
**Parent rock:** Limestone  
**Slope:** Level (0-3%)



Plate 23 Dhofar/Oman - *Grewia bicolor*

**Genus:** *Grewia*                      **Family:** Tiliaceae  
**Species:** *bicolor*  
**Sub-species:**  
**Local name:** qarad  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Masalam Ali Hardan and Ahmed Mosalam Al Amri  
**Collection date:** 11/14/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman    **Governorate:** Dhofar  
**Latitude:** N16 45 03    **Longitude:** E53 13 06  
**Altitude:** 645 m    **Rainfall:** 100-150 mm  
**Location:** Wadi Saiq (close to Yemen borders on a narrow road before Dalkut town)  
**Habitat/Site:** Woodland or marginal forest  
**Dominant species:** *Acacia* spp.  
**Grazing pressure:** High  
**Seed collected:** N  
**Species frequency:** Scattered  
**Species remarks:** *Acacia* spp. dominant  
**Soil texture:** Stones/Rocky    **Depth:** >50 cm  
**Parent rock:** Limestone  
**Slope:** Mountainous



Plate 24 Dhofar/Oman - *Loudetia flavida*

**Genus:** *Loudetia*                      **Family:** Graminae?  
**Species:** *flavida*  
**Sub-species:**  
**Local name:** al-ahier  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Masalam Ali Hardan and Ahmed Mosalam Al Amri  
**Collection date:** 11/13/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman    **Governorate:** Dhofar  
**Latitude:** N16 49 195    **Longitude:** E53 37 453  
**Altitude:** 1065 m    **Rainfall:** <100 mm  
**Location:** Shahab Isaeib (Geishan Mountains)  
**Habitat/Site:** Rangeland  
**Dominant species:** *Dracaena serrulata* (airoub), *Dichanthium micranthum* (zadrut), *Loudetia falvida* (ahier) and *Dactyloctenium scindicum* (kazareit)  
**Grazing pressure:** High  
**Seed collected:** Y  
**Species frequency:** Scattered  
**Species remarks:**  
**Soil texture:** Stones/Rocky    **Depth:** <30 cm  
**Parent rock:** Limestone  
**Slope:** Steep (>30%)



Plate 25 Dhofar/Oman - *Maytenus dhofarensis*

**Genus:** *Maytenus*                      **Family:** Celastraceae  
**Species:** *dhofarensis*  
**Sub-species:**  
**Local name:** shirbait  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Salem Bin Mosalam Geid and Ahmed Suhail Al Marhoun  
**Collection date:** 11/12/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman    **Governorate:** Dhofar  
**Latitude:** N17 14 25    **Longitude:** E54 01 43  
**Altitude:** 921 m    **Rainfall:** 200 mm  
**Location:** Hajif, 18 km north of Salalah  
**Habitat/Site:** Protected or enclosed  
**Dominant species:** *Dyschoriste dalyi* (dafeid)  
**Grazing pressure:** None  
**Seed collected:** N  
**Species frequency:** Frequent  
**Species remarks:** Trees  
**Soil texture:** Clay    **Depth:** >30 cm  
**Parent rock:** Limestone  
**Slope:** Sloping (16-30)



Plate 26 Dhofar/Oman - *Ormocarpum dhofarensis*

**Genus:** *Ormocarpum*                      **Family:** Leguminosae  
**Species:** *dhofarensis*  
**Sub-species:**  
**Local name:** khair  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Masalam Ali Hardan and Ahmed Mosalam Al Amri  
**Collection date:** 11/13/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman    **Governorate:** Dhofar  
**Latitude:** N16 46 12    **Longitude:** E53 20 07  
**Altitude:** 850 m    **Rainfall:** 300 mm  
**Location:** Anatokh 18 km northwest of Rakhut town  
**Habitat/Site:** Rangeland  
**Dominant species:** *Anogeissus dhofarica*  
**Grazing pressure:** Low  
**Seed collected:** Y  
**Species frequency:** Frequent  
**Species remarks:** Very palatable to all livestock  
**Soil texture:** Clayloam    **Depth:** 50-100 cm  
**Parent rock:** Limestone  
**Slope:** Mountainous

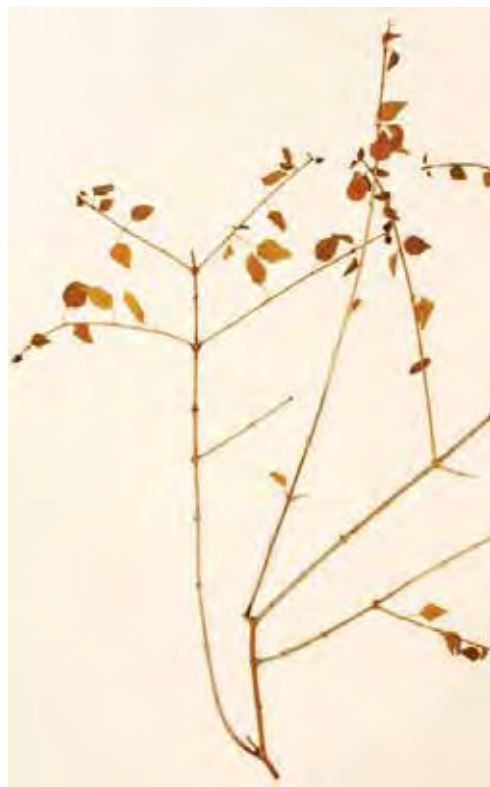


Plate 27 Dhofar/Oman - *Premna resinosa*

**Genus:** *Premna*                      **Family:** Verbenaceae  
**Species:** *resinosa*  
**Sub-species:**  
**Local name:** shibhait  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Masalam Ali Hardan and Ahmed Mosalam Al Amri  
**Collection date:** 11/14/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman    **Governorate:** Dhofar  
**Latitude:** N16 45 03    **Longitude:** E53 13 06  
**Altitude:** 645 m    **Rainfall:** 100-150 mm  
**Location:** Wadi Saiq (close to Yemen borders on a narrow road before Dalkut town)  
**Habitat/Site:** Woodland or marginal forest  
**Dominant species:** *Acacia* spp.  
**Grazing pressure:** Low  
**Seed collected:** N  
**Species frequency:** Frequent  
**Species remarks:** *Acacia* spp. dominant  
**Soil texture:** Stones/Rocky    **Depth:** >50 cm  
**Parent rock:** Limestone  
**Slope:** Mountainous



Plate 28 Dhofar/Oman - *Tamarindus indica*

**Genus:** *Tamarindus*                      **Family:** Leguminosae  
**Species:** *indica*  
**Sub-species:**  
**Local name:** sabbar (aradeeb)  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Mohamed Bin Ali Al Awid and Ahmed Awad Bakir  
**Collection date:** 11/11/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman    **Governorate:** Dhofar  
**Latitude:** N17 03 12    **Longitude:** E54 36 33  
**Altitude:** 325 m    **Rainfall:** 250 mm  
**Location:** Wadi Hashir  
**Habitat/Site:** Forest  
**Dominant species:** *Acacia nilotica*  
**Grazing pressure:** High  
**Seed collected:** N  
**Species frequency:** Frequent  
**Species remarks:** *Cissus quadrangularis* (parasitic plant) was noted smothering both small and big plants, also noted presence of *Adonsonia digitata*  
**Family:** Bombacaceae  
**Soil texture:** Clay    **Depth:** 10-15 cm  
**Parent rock:** Limestone  
**Slope:** Mountainous

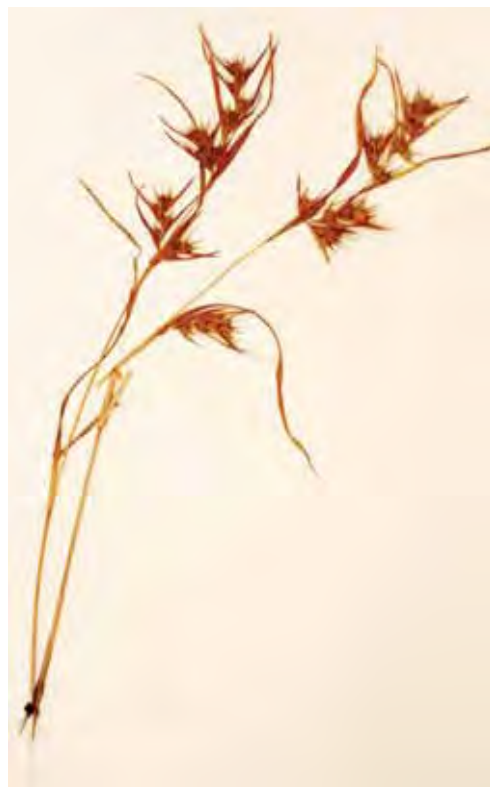


Plate 29-1 Dhofar/Oman - *Themeda quadrivalvis*

**Genus:** *Themeda*                      **Family:** Graminae  
**Species:** *quadrivalvis*  
**Sub-species:**  
**Local name:** al-ali  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Mohamed Bin Ali Al Awid and Ahmed Awad Bakir  
**Collection date:** 11/11/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman    **Governorate:** Dhofar  
**Latitude:** N17 06 49    **Longitude:** E54 31 21  
**Altitude:** 647 m    **Rainfall:** 220-250 mm  
**Location:** Tawi Ateir (few km from Wadi Dirban)  
**Habitat/Site:** Protected or enclosed  
**Dominant species:** *Themeda quadrivalvis*, *Apluda mutica* (both highly palatable annual grasses), *Dichanthium foveolatum* (zadrut), *Acacia senegal*  
**Grazing pressure:** None  
**Seed collected:** Y  
**Species frequency:** Frequent  
**Species remarks:** Palatable annual grass  
**Soil texture:** Clay    **Depth:** >30 cm  
**Parent rock:** Limestone  
**Slope:** Level (0-3%)



Plate 29-2 Dhofar/Oman - *Themeda quadrivalvis*

**Genus:** *Themeda*                      **Family:** Graminae  
**Species:** *quadrivalvis*  
**Sub-species:**  
**Local name:** al-ali  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Salem Bin Mosalam Geid and Ahmed Suhail Al Marhoun  
**Collection date:** 11/12/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman    **Governorate:** Dhofar  
**Latitude:** N17 14 25    **Longitude:** E54 01 43  
**Altitude:** 921 m    **Rainfall:** 200 mm  
**Location:** Hajif, 18 km north of Salalah  
**Habitat/Site:** Protected or enclosed  
**Dominant species:** *Dyschoriste dalyi* (dafeid)  
**Grazing pressure:** None  
**Seed collected:** N  
**Species frequency:** Frequent  
**Species remarks:** Annual reddish in color  
**Soil texture:** Clay    **Depth:** >30 cm  
**Parent rock:** Limestone  
**Slope:** Sloping (16-30)



Plate 30 Dhofar/Oman - *Trigonella* sp.

**Genus:** *Trigonella*      **Family:** Leguminosae  
**Species:**  
**Sub-species:**  
**Local name:** hosam  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Mohamed Bin Ali Al Awid and Ahmed Awad Bakir  
**Collection date:** 11/11/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman      **Governorate:** Dhofar  
**Latitude:** N17 05 915      **Longitude:** E54 27 07  
**Altitude:** 220 m      **Rainfall:** 200 mm  
**Location:** Wadi Dirban (river bank). We drove 29 km east from Salalah, then turned north for about 11 km  
**Habitat/Site:** Woodland or marginal forest  
**Dominant species:** *Anogeissus dhofarica*, *Ziziphus spina-christi*  
**Grazing pressure:** High  
**Seed collected:** Y  
**Species frequency:** Scattered  
**Species remarks:** Permanent spring and crowded with camels and cattle. The pasture has been grazed to the ground. Trees showing grazing line  
**Soil texture:** Sandy loam      **Depth:** 100 cm  
**Parent rock:** Limestone  
**Slope:** Level (0-3%)



Plate 31 Dhofar/Oman - *Ziziphus spina-christi*

**Genus:** *Ziziphus*      **Family:** Rhamnaceae  
**Species:** *spina-christi*  
**Sub-species:** ss  
**Local name:** dom, nabaq (sidir)  
**Collector (s):** Ali Shehade, Ahmed Osman, Saleem Nadaf, Salih Al Hinahi, Safa'a Al Farisi, Saeed Bin Masoud Al Omari, Mohamed Bin Ali Al Awid and Ahmed Awad Bakir  
**Collection date:** 11/11/2001  
**Identified by:** Ali Shehade, Ahmed Osman, Saleem Nadaf  
**Country:** Oman      **Governorate:** Dhofar  
**Latitude:** N17 05 915      **Longitude:** E54 27 07  
**Altitude:** 220 m      **Rainfall:** 200 mm  
**Location:** Wadi Dirban (river bank). We drove 29 km east from Salalah, then turned north for about 11 km  
**Habitat/Site:** Woodland or marginal forest  
**Dominant species:** *Anogeissus dhofarica*, *Ziziphus spina-christi*  
**Grazing pressure:** High  
**Seed collected:** Y  
**Species frequency:** Scattered  
**Species remarks:** Permanent spring and crowded with camels and cattle. The pasture has been grazed to the ground. Trees showing grazing line  
**Soil texture:** Sandy loam      **Depth:** 100 cm  
**Parent rock:** Limestone  
**Slope:** Level (0-3%)