



"Guidelines for most important grazing plant species in Lebanon"

Baalbeck Hermel

Online workshop

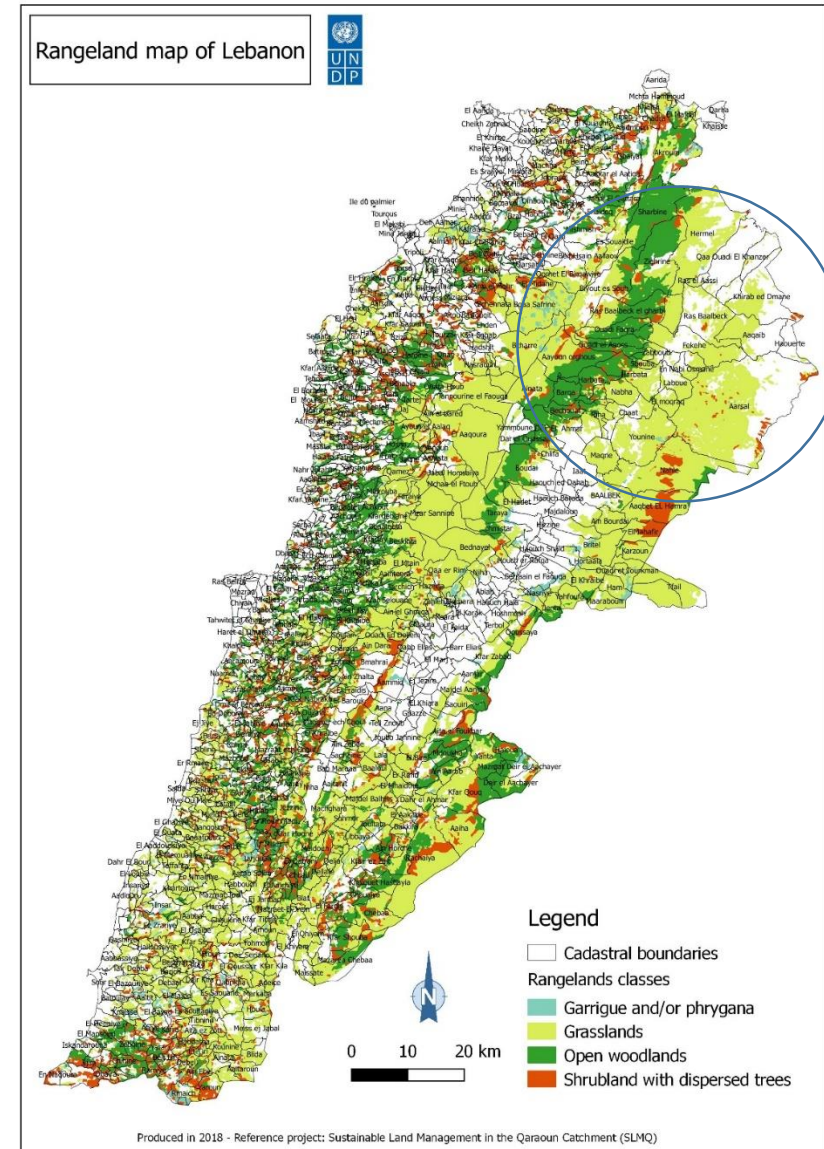
Presented by: Joseph KAHWAJI

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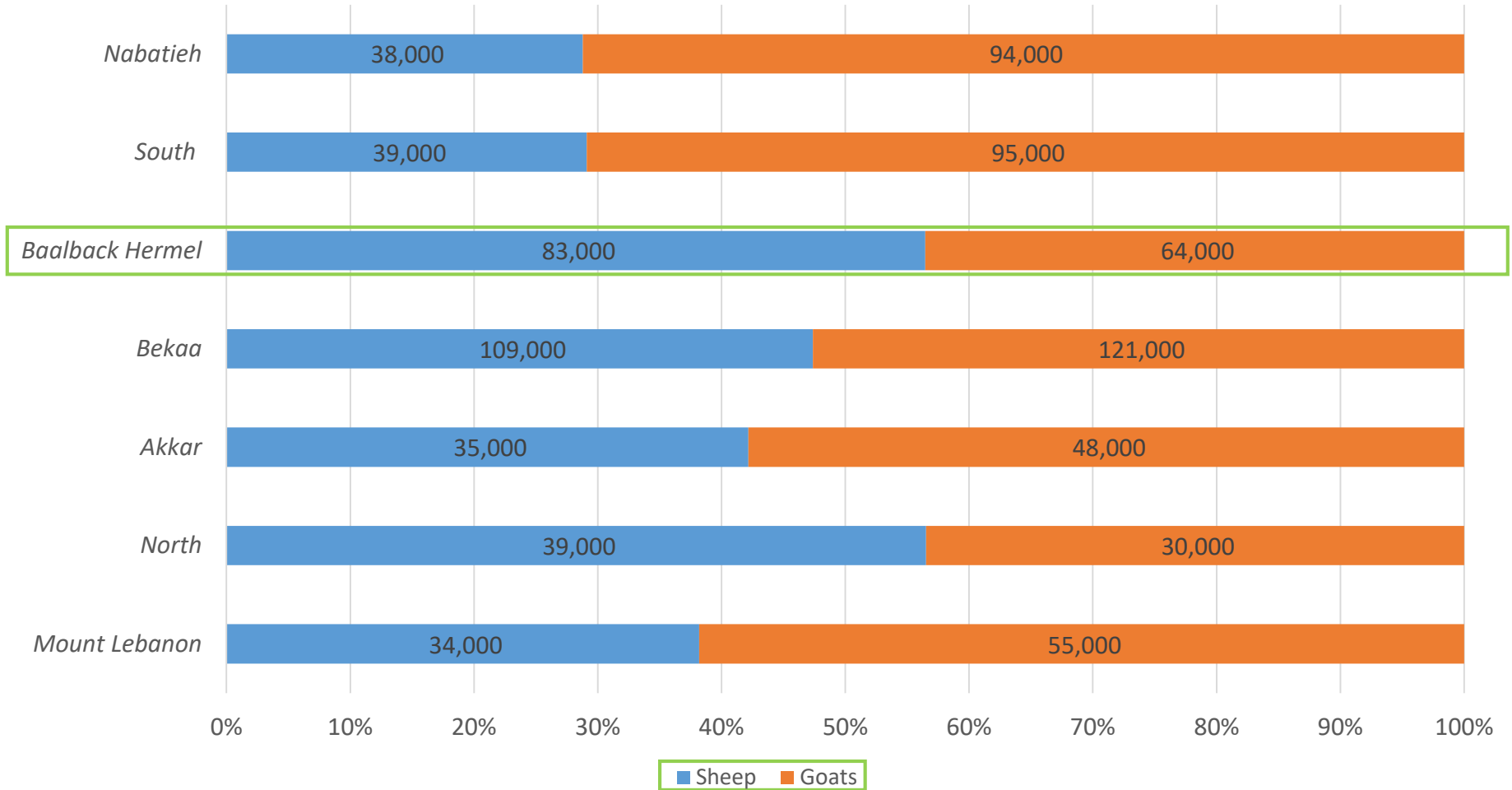
Online technology transfer workshop organized by the Lebanese Agricultural Research Institute (LARI) within the LIVINGAGRO project activities (Activity 4.4.2)

Overview

- 38% of the total Lebanese area can be considered as rangelands
- Rangelands and grazed woodlands are mainly situated on mountain slopes
- Grazing period varies from 3 to 6 months depending on altitude, climate and lands carrying capacity
- Major problems:
 - Over grazing
 - Semi - sedentary flocks (Lebanon - Syria)
 - Global warming
 - Lebanese crisis



Average number of small ruminants per Mohafazat

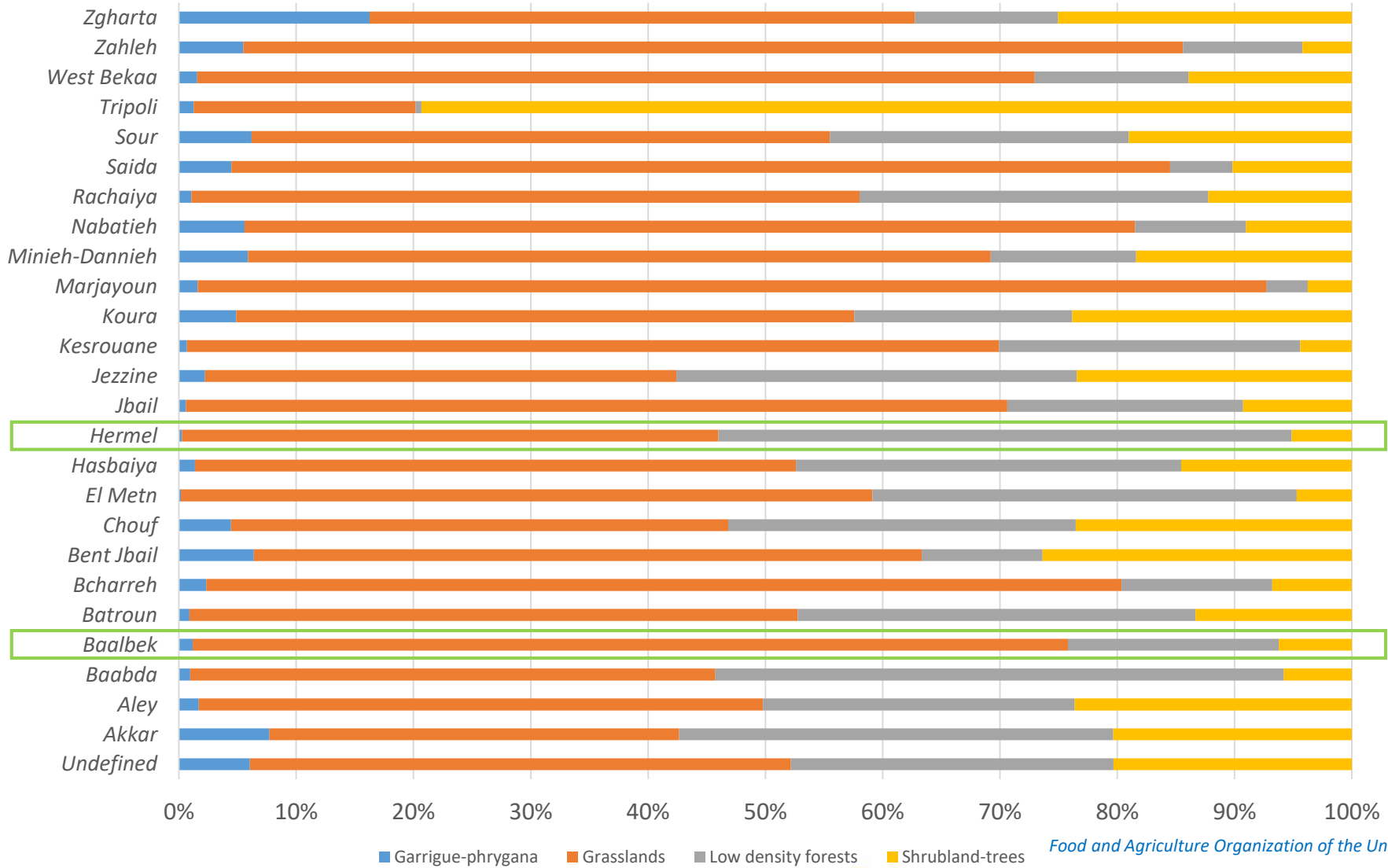


■ Sheep ■ Goats



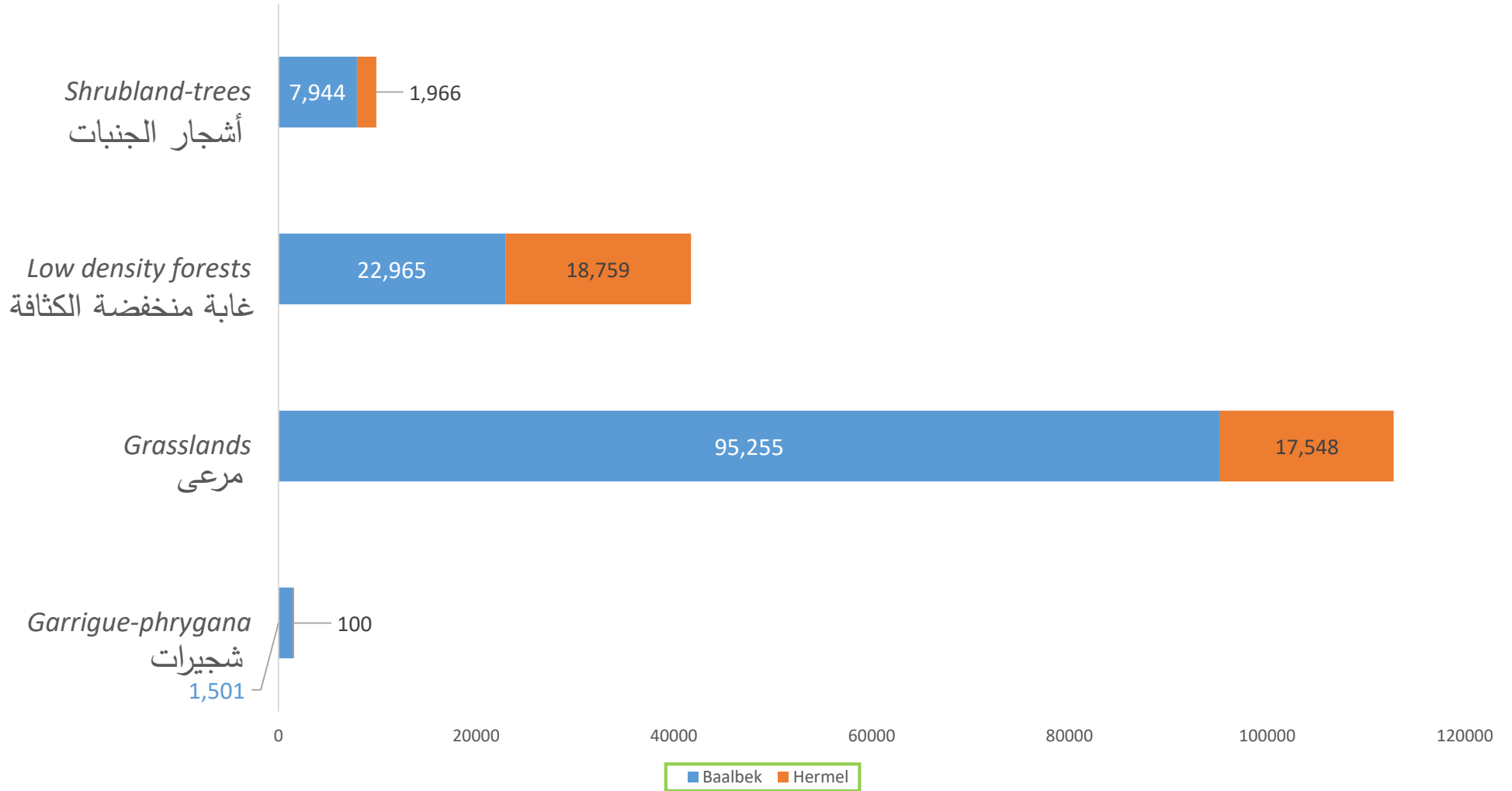
Food and Agriculture Organization of the United Nations data

Rangeland vegetation types per district



Food and Agriculture Organization of the United Nations data

Rangeland vegetation types per booklet zone



Food and Agriculture Organization of the United Nations data



Shrubland-trees
11%



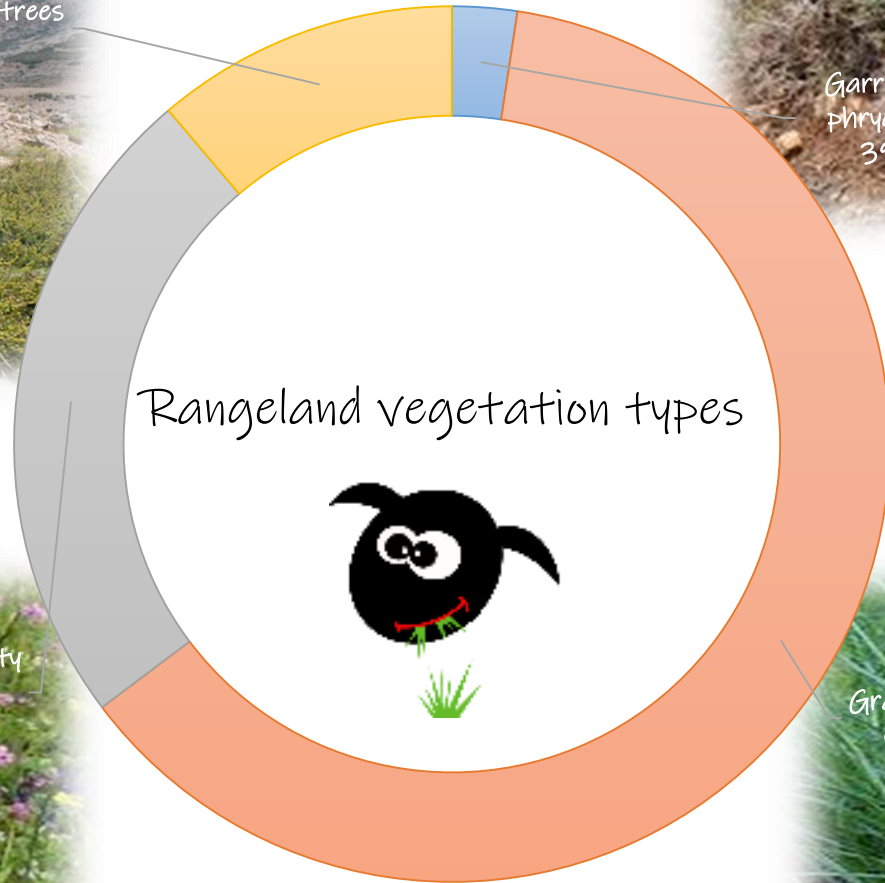
Garrigue-
phrygana
3%



Low density
forests
24%



Grasslands
62%



The booklet

الإسم المتداول
Common name

White wormwood

الشيح

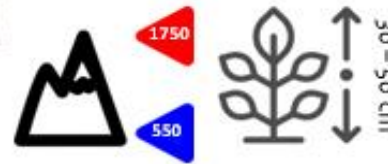
التصنيف العلمي
Scientific classification

صورة النبتة
Picture



Chamaephytes plants
Scientific name: Artemisia herba - alba
Kingdom: Plantae
Phylum: tracheophyta
Class: Asterids
Order: Asterales
Family: Asteraceae
Genus: Artemisia

الارتفاع الذي تتواجد عليه (من إلى)
Plant presence elevation (from - to)



طول النبات (من إلى)
Plant height (from - to)

المناطق اللبانية التي تنمو بها
Geographical presence



نوع النبات
Plant type

نوع التربة التي تنمو بها
Soil type



أشهر السنة
Months

القيمة الغذائية للنبتة (تقريبي)
Feed value meter
(approximate)



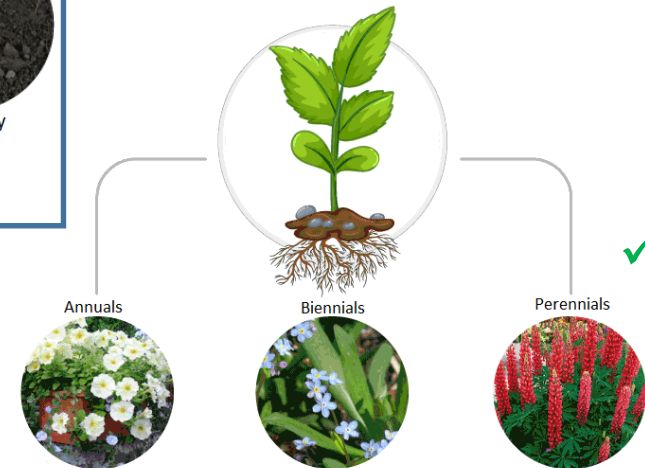
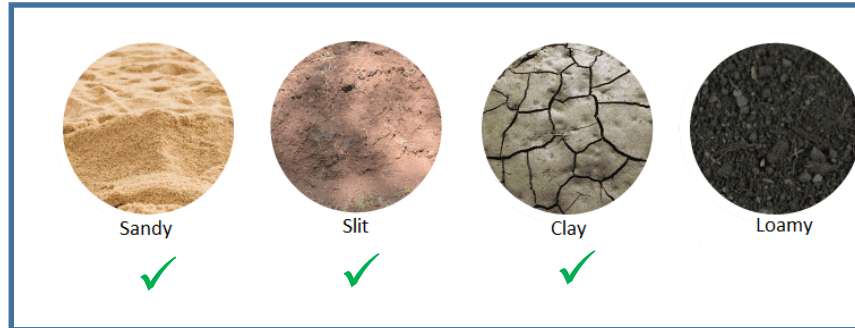
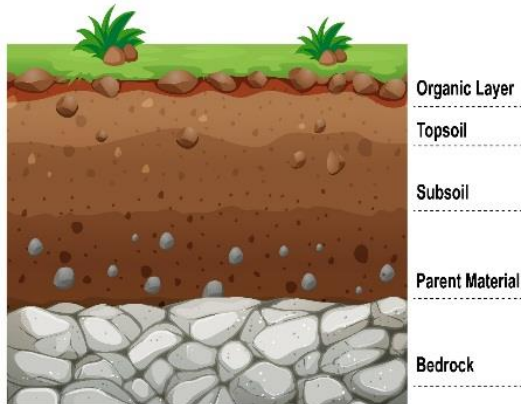
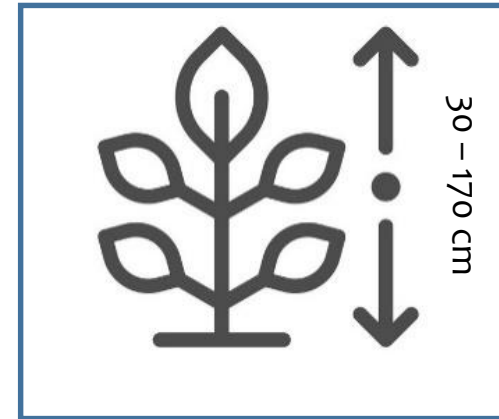
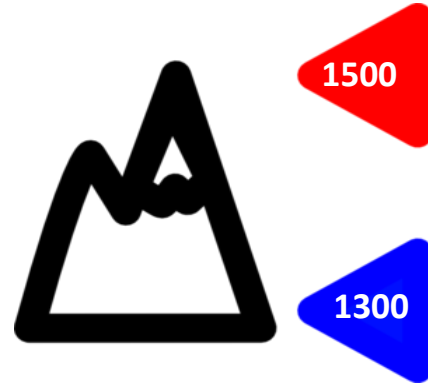
فترة الإزهار
Flowering season

يُسمح بالرعي
Best grazing
time

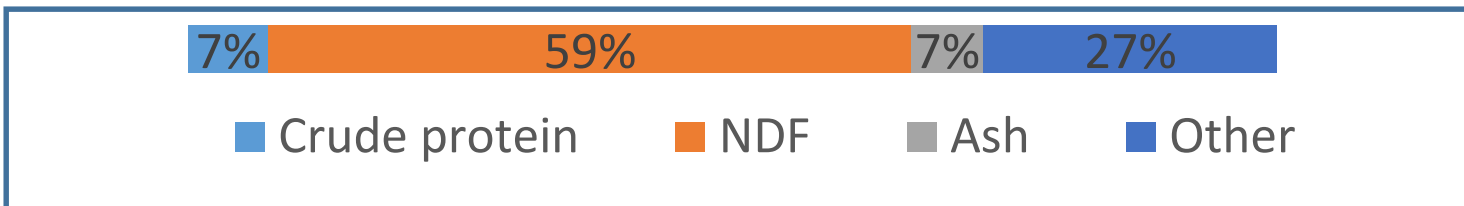
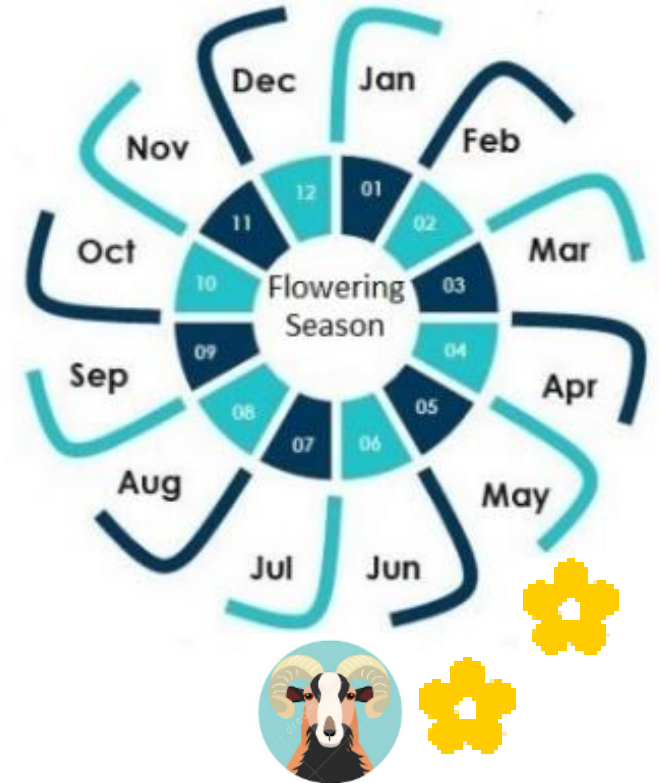
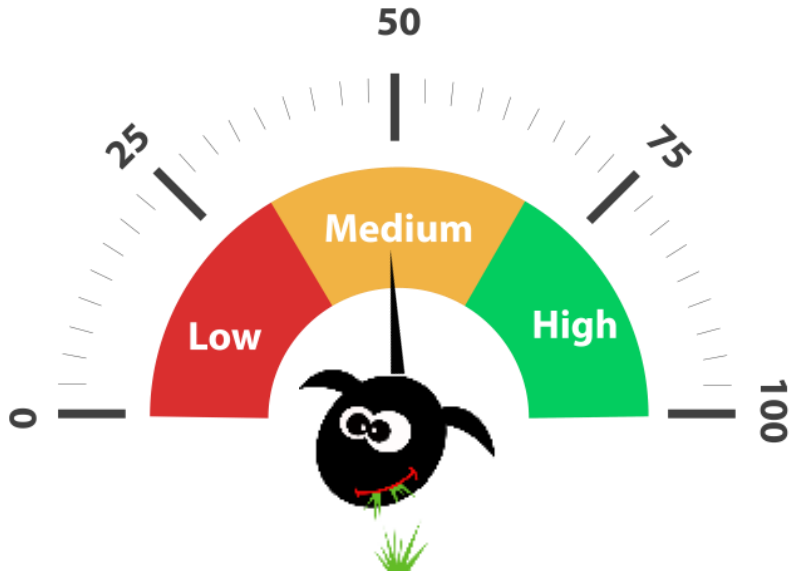
عمق التربة التي تنمو بها
Soil depth

التحليل التقريبية للنبتة (تقريبي)
Proximate analysis

The booklet



The booklet



Recommendations

- This booklet could be used as a guide to identify, know how and when to graze and preserve the existing spp. (increasing awareness)
- The carrying capacity should be respected
- Flock movements (open borders) must be controlled
- Hot spots must be identified (water, feed, shading zones)
- Native seeds should be collected and increased to be reseeded
- Shrubs nursery is highly recommended and planting shrubs could help in fighting erosion, increasing feed availability and impacting soil quality and water retention (water harvesting)



Lead grazing responsibly....



Picture credits: SPNL