Improving Forage
Production Quantity
and Quality Using
Native Legume
Species in Semi-arid
Agrosilvopastoral
Systems

Louhaichi, M^{1*}
Slim, S²
Gamoun, M¹
Hassan, S¹
Kailene, J⁴
Hamdeni, I⁵

- 1* International Center for Agricultural Research in the Dry Areas (ICARDA), Tunis, Tunisia
- 2 School of Higher Education in Agriculture of Mateur, University of Carthage, Tunisia
- 3 International Center for Agricultural Research in the Dry Areas, Amman, Jordan
- 4 General Directorate of forests, Tunisia Agriculture Ministry, Tunis, Tunisia
- 5 Institut National Agronomique de Tunisie (INAT), Tunis, Tunisia

INTRODUCTION

Agrosilvopasture (ASP) is ideal for semi-arid environments.

- Rehabilitate natural pastures.
- Enhance livestock production.
- Improve livelihood of ASP communities.

Sulla (*Hedysarum coronarium* L.) is highly productive, deep rooted, palatable pasture and fodder legume well suited for semi-arid ASP systems, ideal for:

- Re-seeding of degraded rangelands
- Improving soil fertility
- Controlling erosion



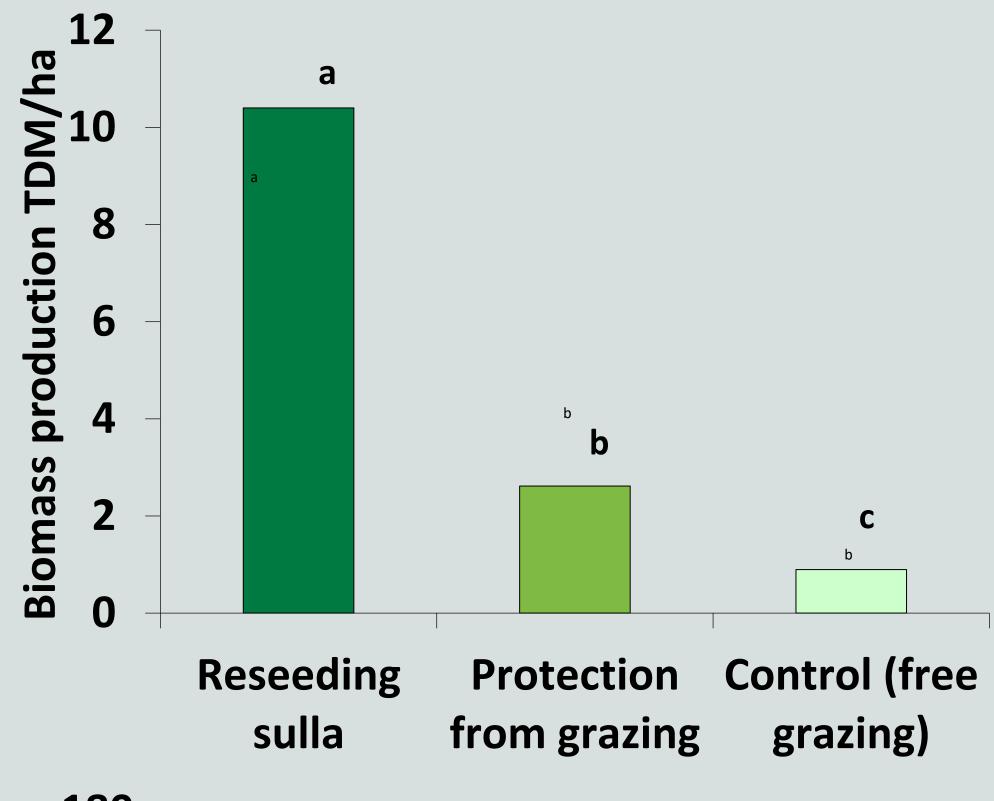


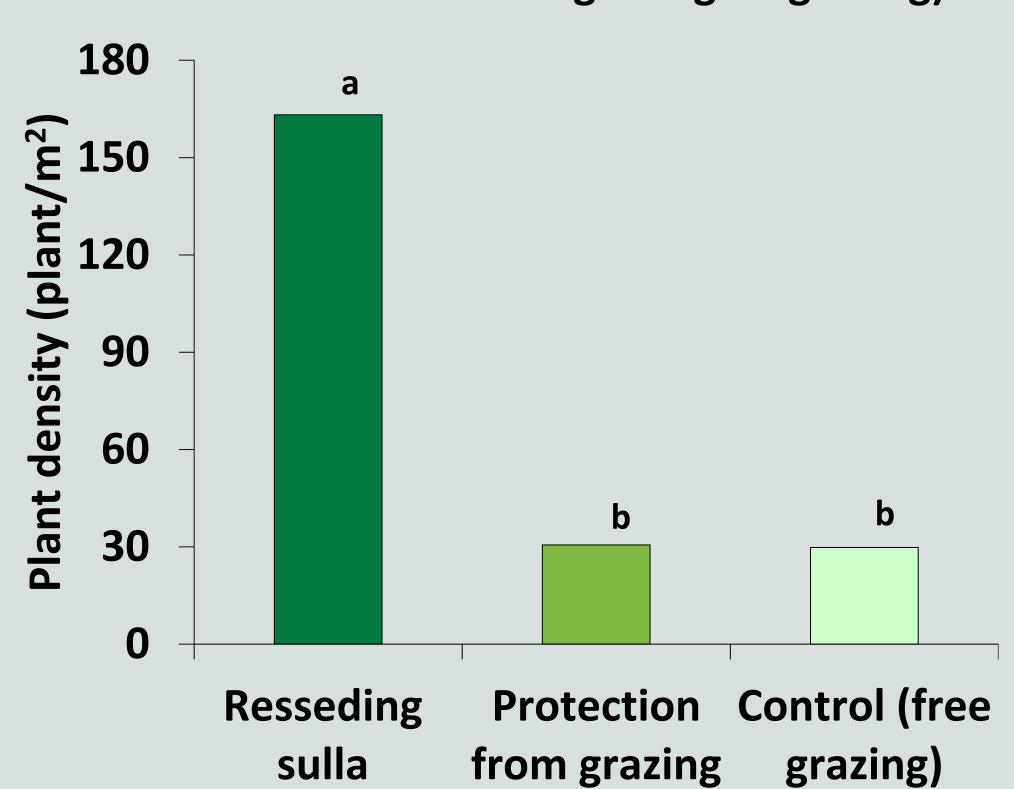
OBJECTIVE

Evaluate the impact of two rehabilitation techniques: sulla reseeding and grazing protection on pasture productivity in semiarid silvopastoral systems:

Sbaihia, Zaghouan Governorate,
Tunisia

RESULTS





Food and Agriculture Organization of the United Nations

OUTCOMES

Native forage species can result in:

- Enhanced ASP ecosystem services through higher soil organic matter and reduced water and soil erosion.
- Improved livelihoods through better livestock performance and reduced feeding costs.

Take home message

- Indigenous forage legumes have a greater impact on ASP systems.
- Identify other native forage species suited to drought prone areas.
- Outscale proven technologies to similar agro-ecological environments.



