



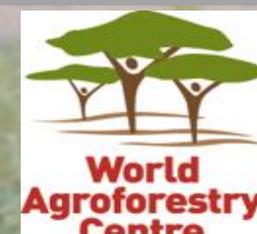
KNOWLEDGE AND EXPERIENCE SHARING SYMPOSIUM

Towards Highly Rewarding and Inclusive Flood-based Livelihoods

Agroforestry And Livestock Management through use of Flood Water and Construction of Earthen Water Ponds in Flood-Based Livelihood System (FBLS) in Pakistan

4TH TO 8TH MARCH, 2019

VOI WILDLIFE LODGE, TAITA TAVETA COUNTY, KENTA



Pakistan's Geographical Context

Country Governance structure

Federal Government

Provincial Governments and its areas:

- Balochistan Province 347,190kms²
- Sindh Province 205,344kms
- Punjab Province 140,914kms²
- Khyber Pashunkhawa 79,280kms²
- Gilgat Baltistan 72,971kms²
- Azad Jammu & Kashmir 13,297kms²



Country Dry land context

Pakistan 7 mhec

Forest Cover 1.97 %
Asia 20%

Balochistan 4.68mhec

30 district – low, high, desert & coastal

Sindh 0.55mhec

4 district - low land & desert

Punjab 0.57mhec

4 districts - low land

KpK 0.86mhec

6 districts – low land

Federal 0.27mhec

2 districts & surrounding rain fed areas



Pakistan

Agriculture and Livestock Sector

Agriculture (Crops, Livestock, Forest and Fisheries) contribute 20.9% to Gross GDP.

Coefficient ratio of sub sector – livestock 56.3% (11.8%)

Forest - 0.4%

Fisheries - Not Counted out of scope

Households dependency - 88 Million in Pakistan

Agriculture and Livestock - 70% (Rural Population makes livelihoods from Agriculture and Livestock).

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Note (Balochistan is higher dependency with 70-80% reported)

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The Spate Context - Pakistan



The context



The Context



The Context



Priority Areas in Country Context

Spate Irrigation Systems Zones

Pakistan has 4 types of major ecological zones

Desert – in south west and south – sandy deserts with low rain fall

Arid and Semi Arid – with moderate rain fall

Tropical and sub tropical – Humid in monsoon range

Highlands – with snow fall and glaciers

Priority for future business is proposed for Arid-Semi Arid zones that are dependent on hill torrents short duration flows, surface run off with large arid wastes mainly in (Entire Balochistan Province, Piedmont area of Sindh in 4 districts) Province.



Main Development Plan

Gully Plugging

Earthen Excavated ponds for livestock and vegetation

Making Oasis in the plain to retain water and plantation

Eye brow type check dams

Nursery raising in association with Provincial Forest Department and local communities.

Plantation of trees

Wilds grasses, shrubs Seeds collection, and broadcasting

Care and maintenance for at least 2 years



The Terrain

MIDLANDS



DRY LANDS



The Terrain

SANDY DESERT (PIC JAMALI)



SANDY DESERT (PIC JAMALI)



The Terrain

HIGHLANDS



HIGHLANDS

