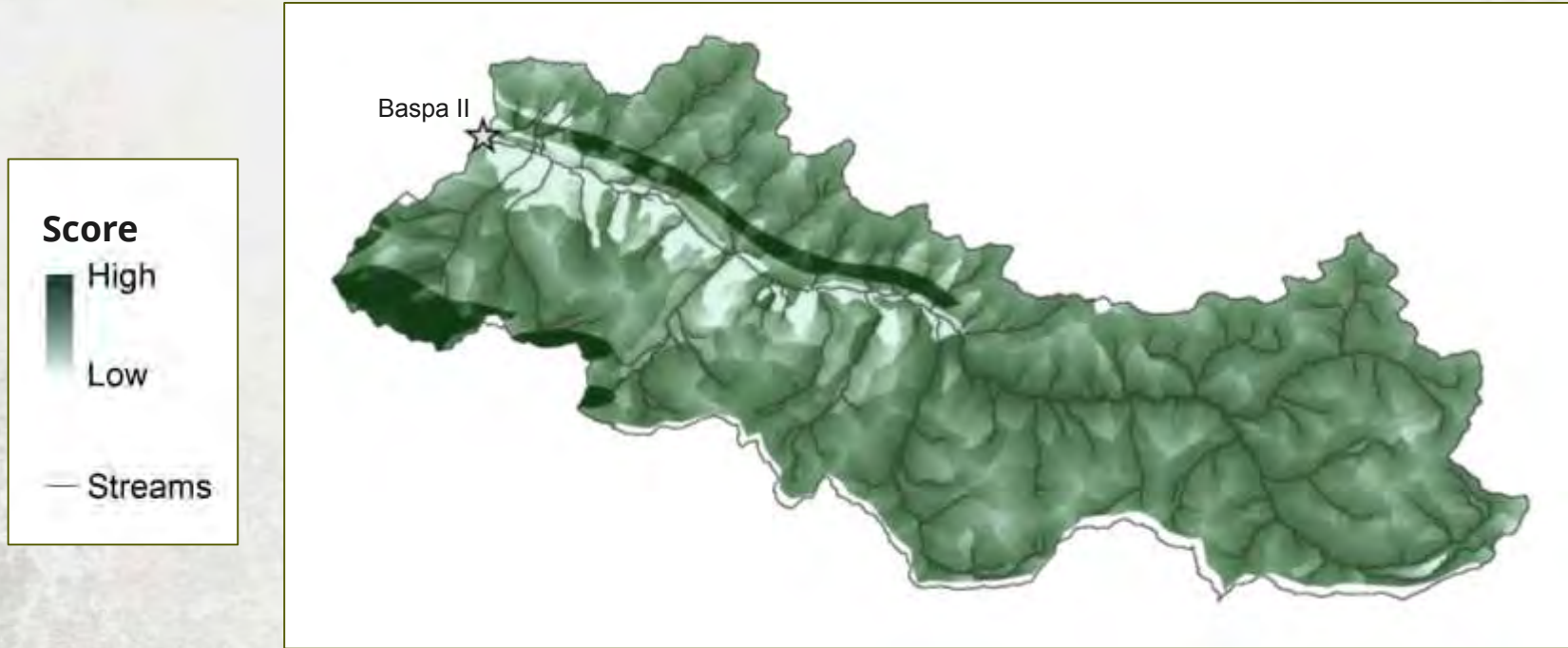# H.P. MODELING STUDY RESULTS

May 21, 2014

Stacie Wolny
swolny@stanford.edu

ACTIVITY SCORE MAPS
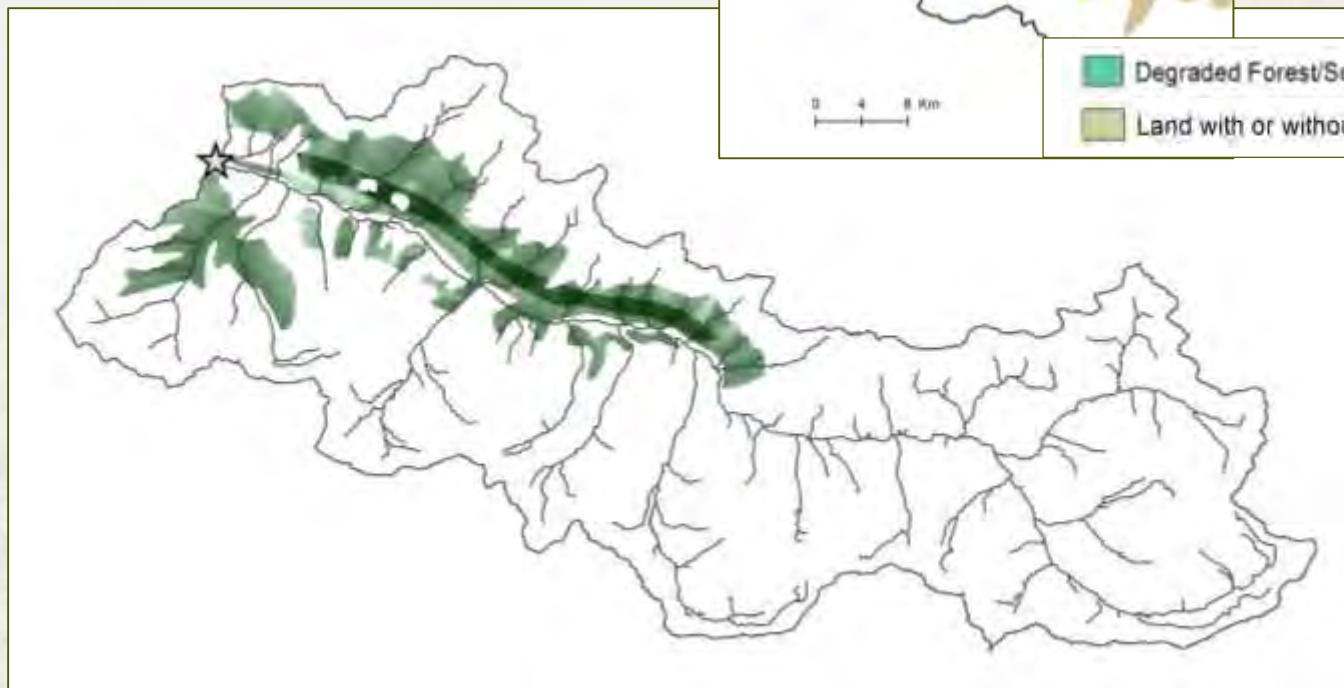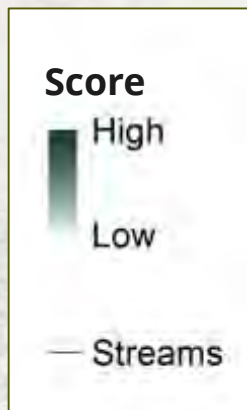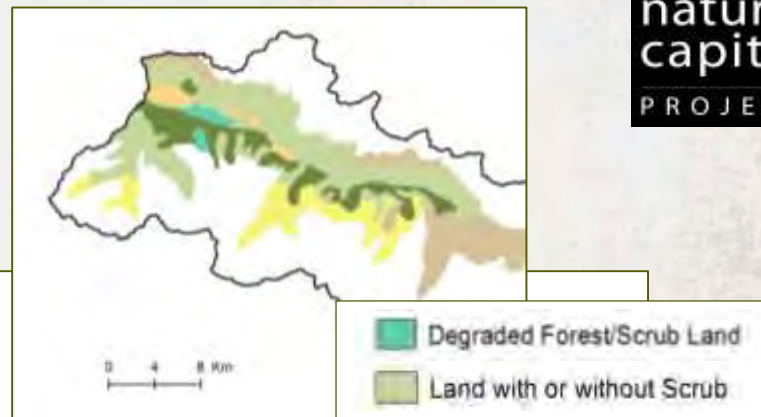
RIOS SCORE MAPS
BASPA – ENERGY PLANTATION

Score
High
Low
— Streams

Baspa II

RIOS SCORE MAPS
BASPA – ENERGY PLANTATION

Score
High

Low

— Streams

Degraded Forest/Scrub Land

Land with or without Scrub

RIOS SCORE MAPS
BASPA – PRIORITIZATION

Energy plantation

Enrichment

Hedge fencing

Score

High

Low

Protection

Fodder development
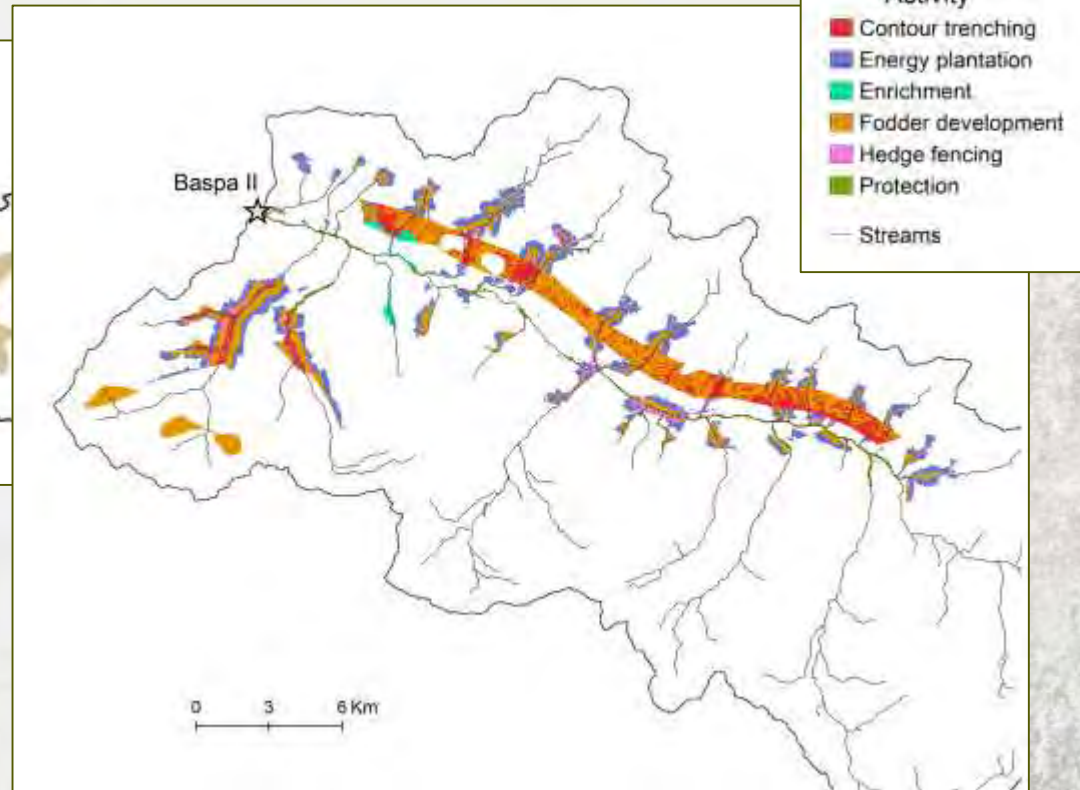
Contour trenching

ACTIVITY PORTFOLIOS

RIOS ACTIVITY PORTFOLIO
BASPA II, 15% BUDGET
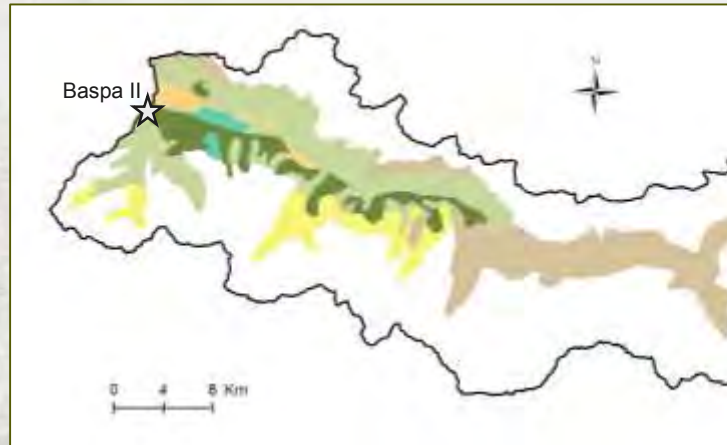
RIOS ACTIVITY PORTFOLIO
CHABA, 15% BUDGET

Chaba

Land Use / Land Cover class
- Degraded Forest/Scrub Land
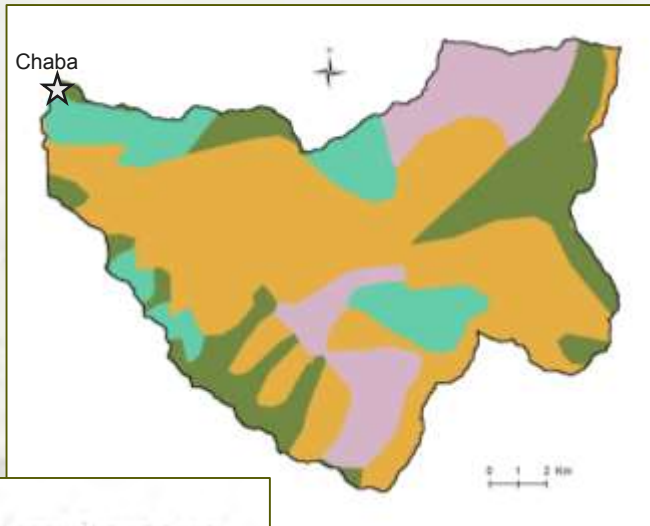- Double Crop (K+R)
- Evergreen/Semigreen Forest
- Plantation

Chaba

Activity
- Contour trenching
- Energy plantation
- Enrichment
- Fodder development
- Hedge fencing
- Protection
- Streams

natural capital
PROJECT

RIOS ACTIVITY PORTFOLIO
GHANVI I, 15% BUDGET

Land Use / Land Cover class
- Degraded Forest/Scrub Land
- Double Crop (K+R)
- Evergreen/Semigreen Forest
- Grass Land/Grazing Land
- Snow Covered/ Glacial Area

Ghanvi I

Activity
- Contour trenching
- Energy plantation
- Enrichment
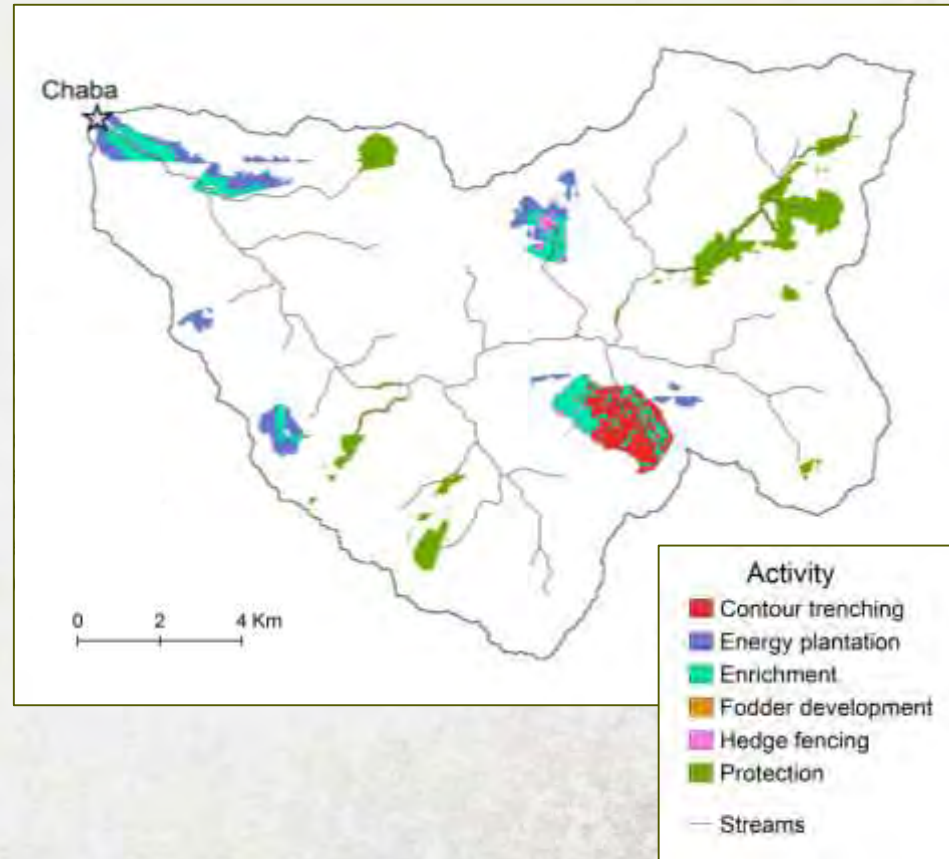- Fodder development
- Hedge fencing
- Protection
- Streams

Ghanvi I

RIOS ACTIVITY PORTFOLIO
GHANVI, 15% BUDGET

Land Use / Land Cover class
- Degraded Forest/Scrub Land
- Double Crop (K+R)
- Evergreen/Semigreen Forest
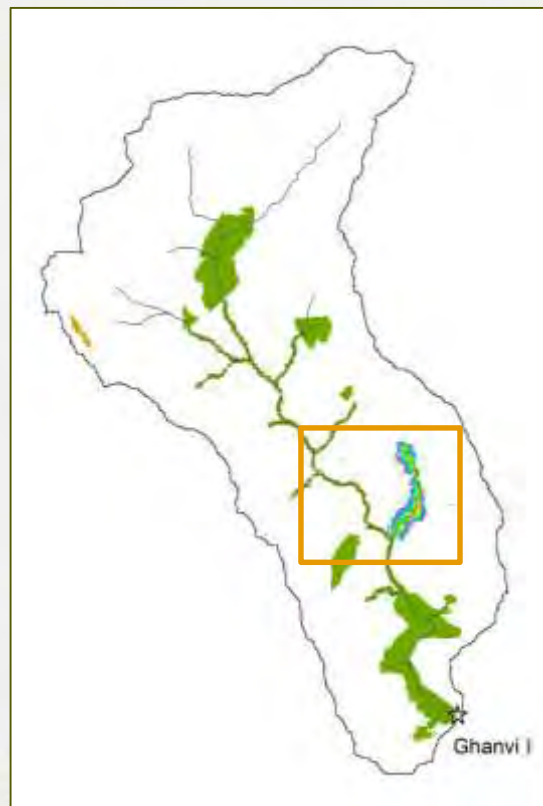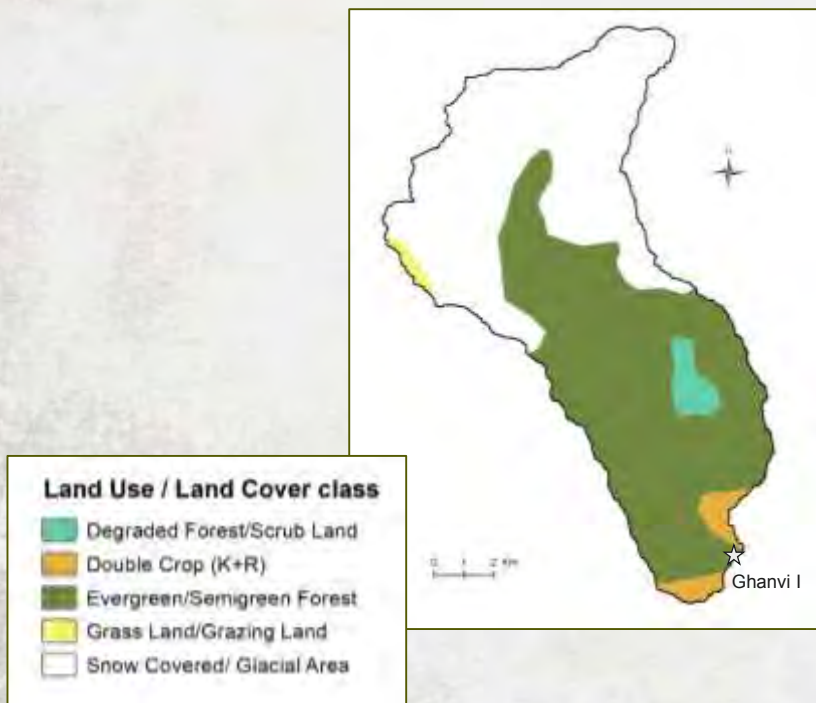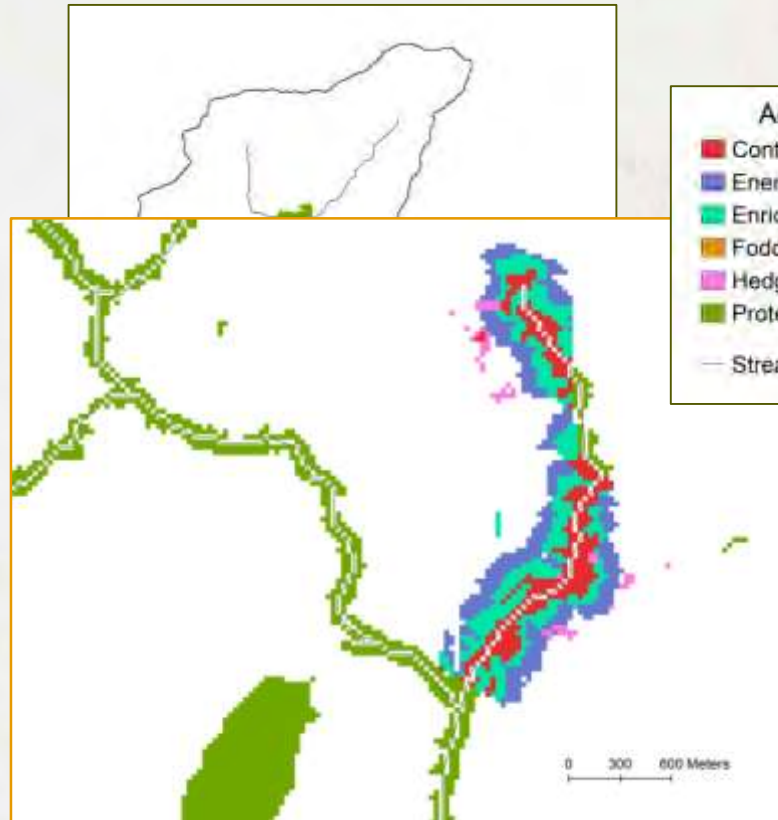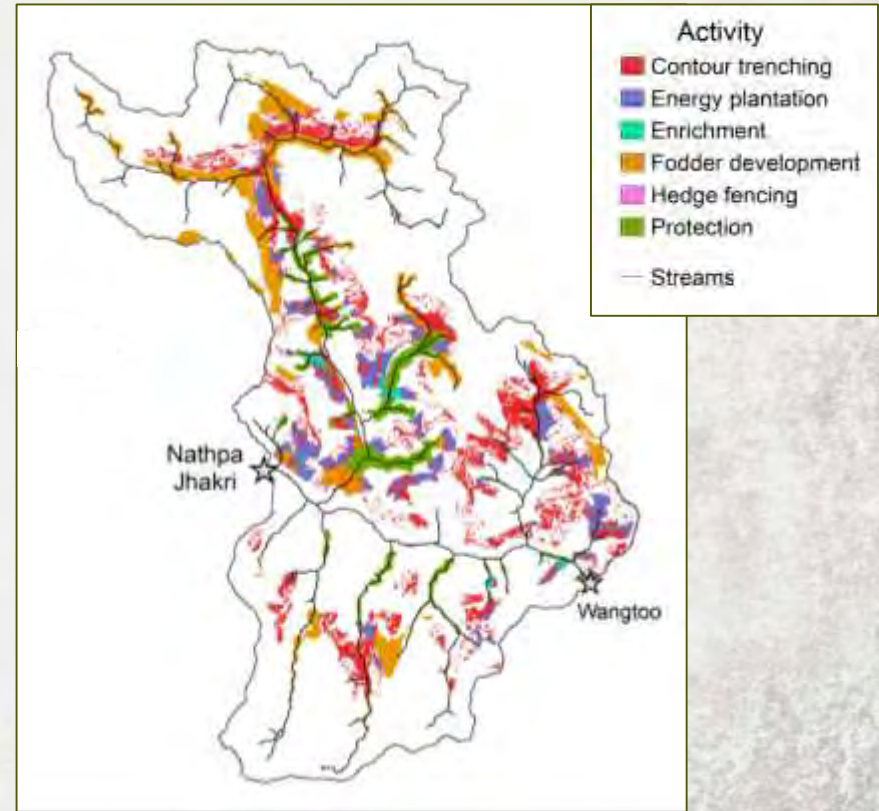- Grass Land/Grazing Land
- Snow Covered/ Glacial Area

Ghanvi I

Activity
- Contour trenching
- Energy plantation
- Enrichment
- Fodder development
- Hedge fencing
- Protection
- Streams

RIOS ACTIVITY PORTFOLIO

NATHPA JHAKRI, 15% BUDGET

Land Use / Land Cover class
- Degraded Forest/Scrub Land
- Evergreen/Semigreen Forest
- Grass Land/Grazing Land
- Kharif
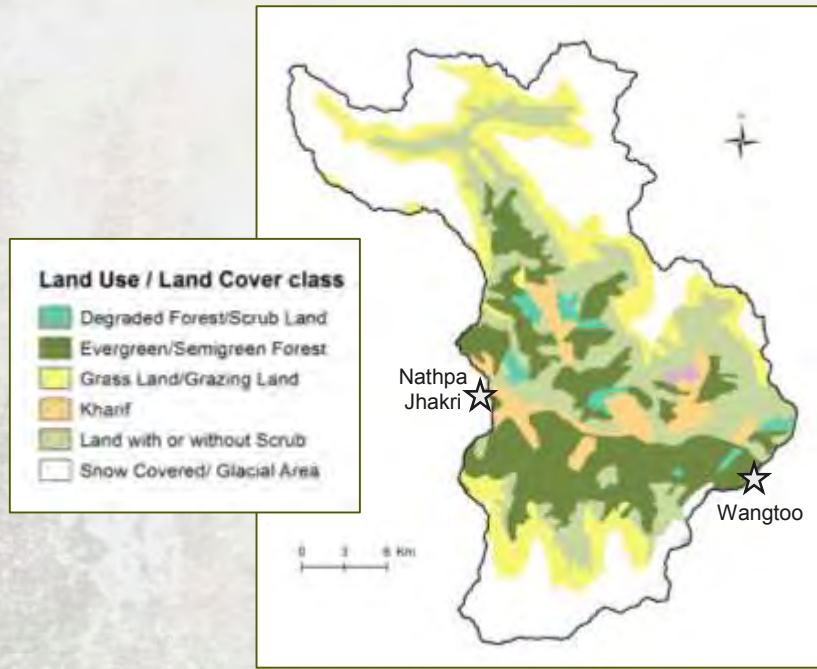- Land with or without Scrub
- Snow Covered/ Glacial Area

Activity
- Contour trenching
- Energy plantation
- Enrichment
- Fodder development
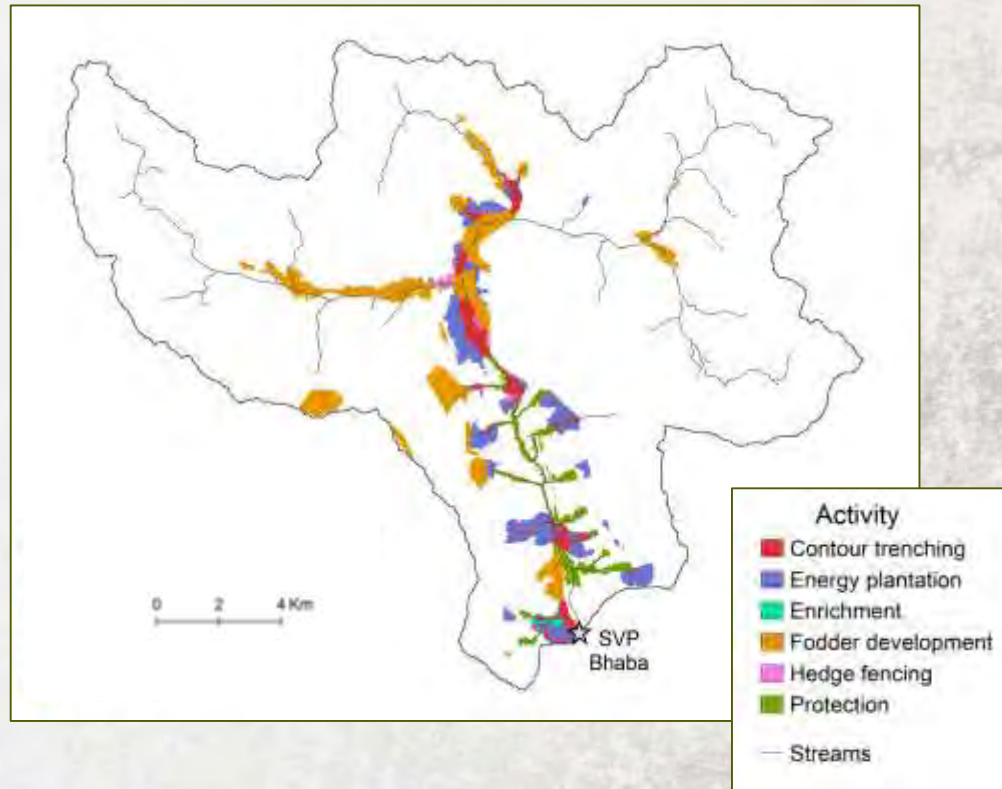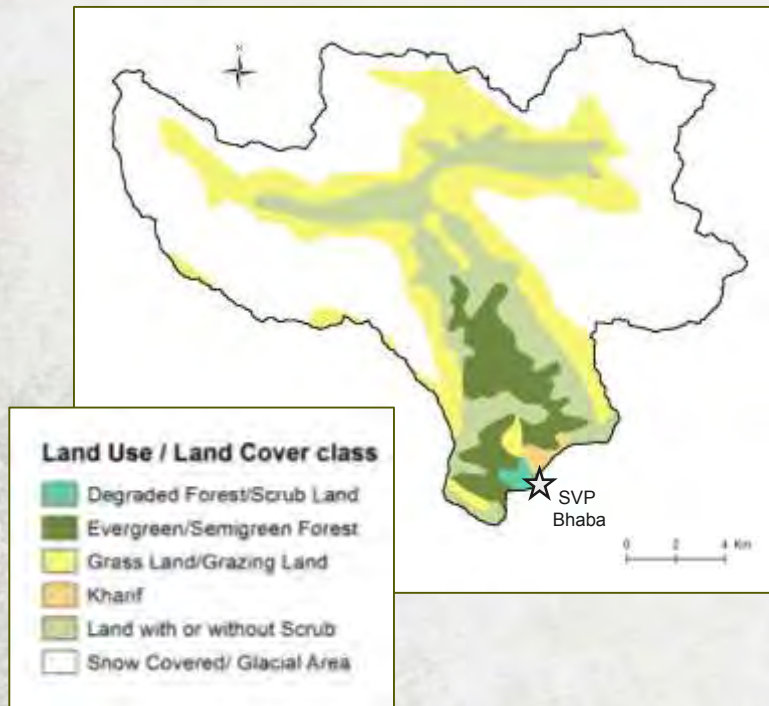- Hedge fencing
- Protection
- Streams

RIOS ACTIVITY PORTFOLIO
SVP BHABA, 15% BUDGET

Land Use / Land Cover class
- Degraded Forest/Scrub Land
- Evergreen/Semigreen Forest
- Grass Land/Grazing Land
- Kharif
- Land with or without Scrub
- Snow Covered/ Glacial Area

Activity
- Contour trenching
- Energy plantation
- Enrichment
- Fodder development
- Hedge fencing
- Protection
- Streams

RIOS ACTIVITY PORTFOLIOS
SVP BHABA, ALL BUDGETS

5%

15%

25%

Activity
- ■ Contour trenching
- ■ Energy plantation
- ■ Enrichment
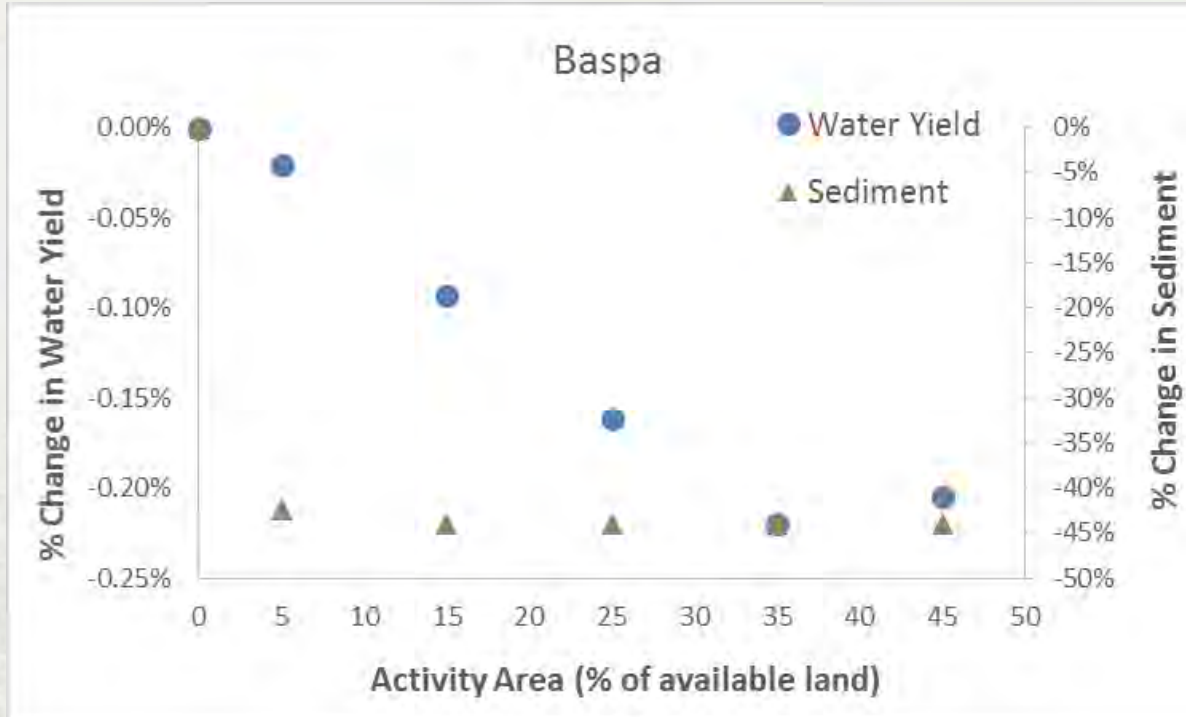- ■ Fodder development
- ■ Hedge fencing
- ■ Protection
- — Streams

45%

35%
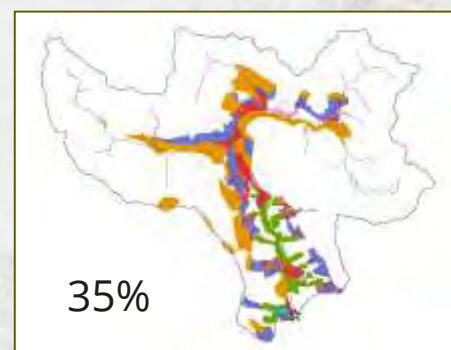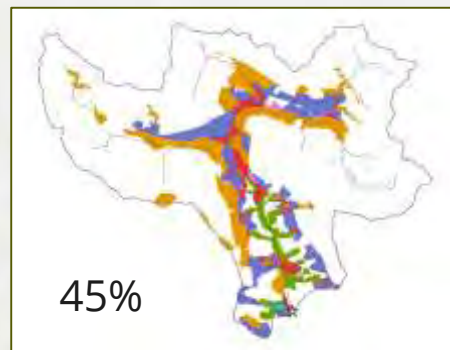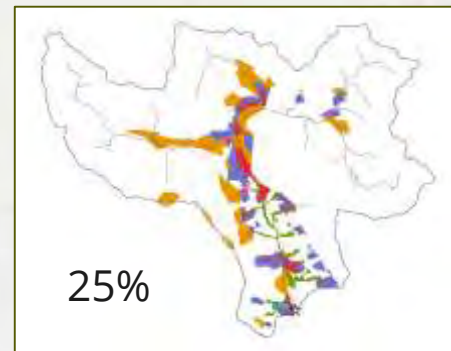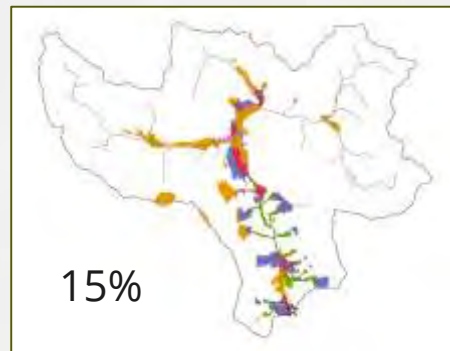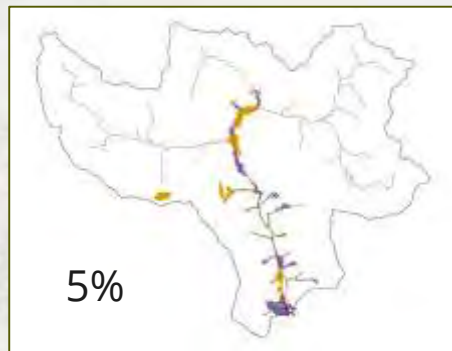
ESTIMATION OF BENEFIT OF ACTIVITIES

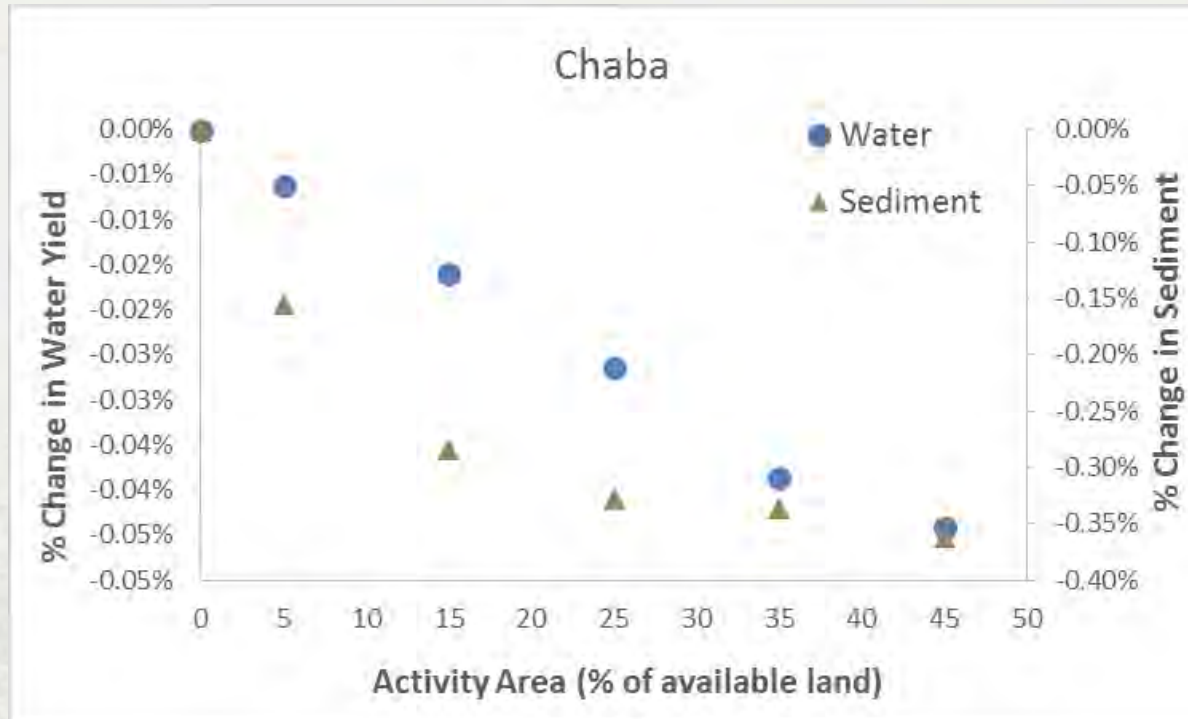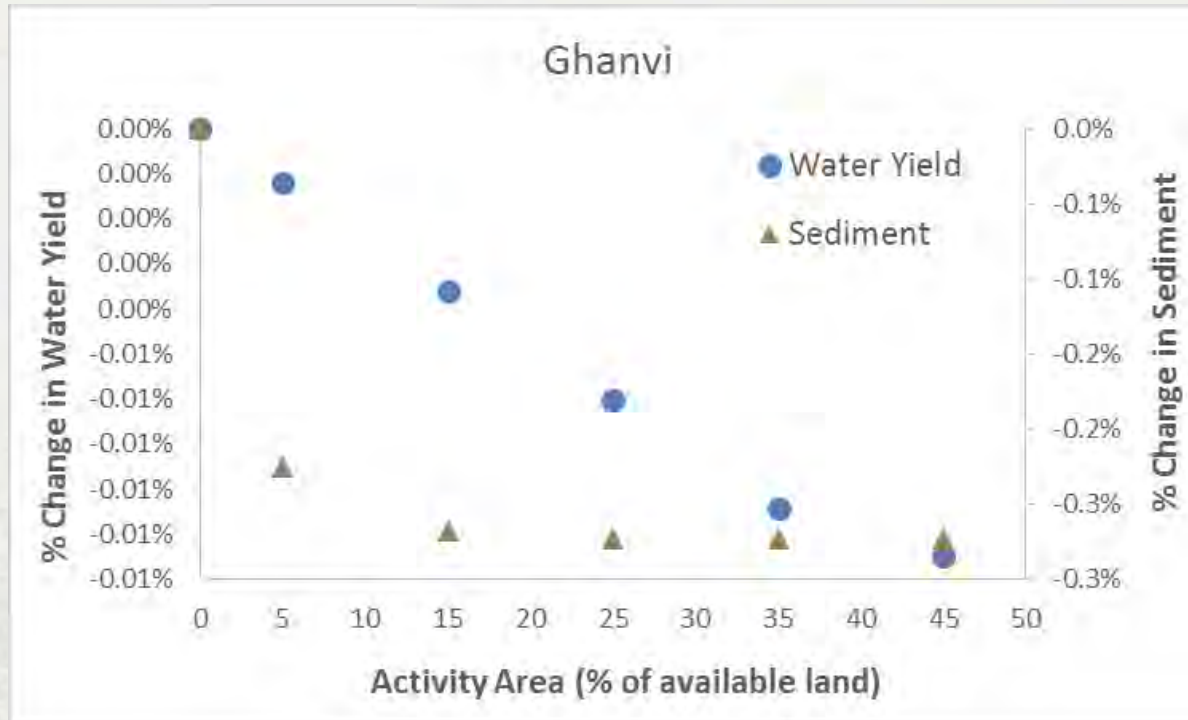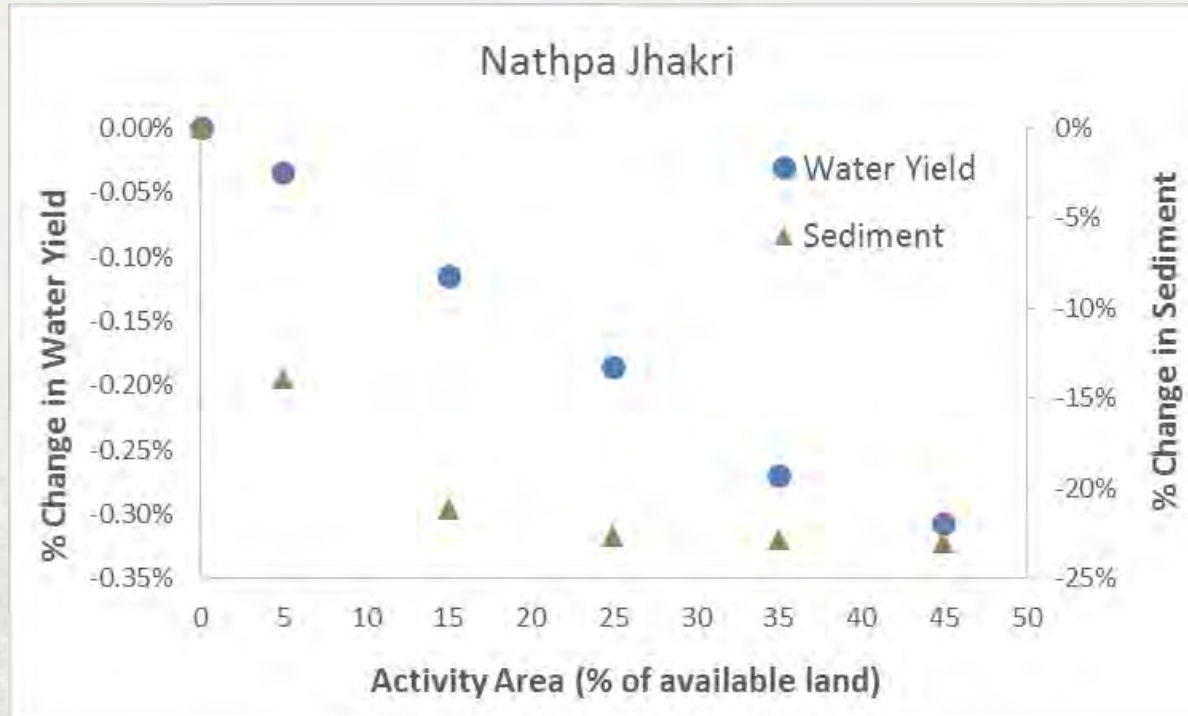# BENEFIT OF ACTIVITIES
BASPA

BENEFIT OF ACTIVITIES
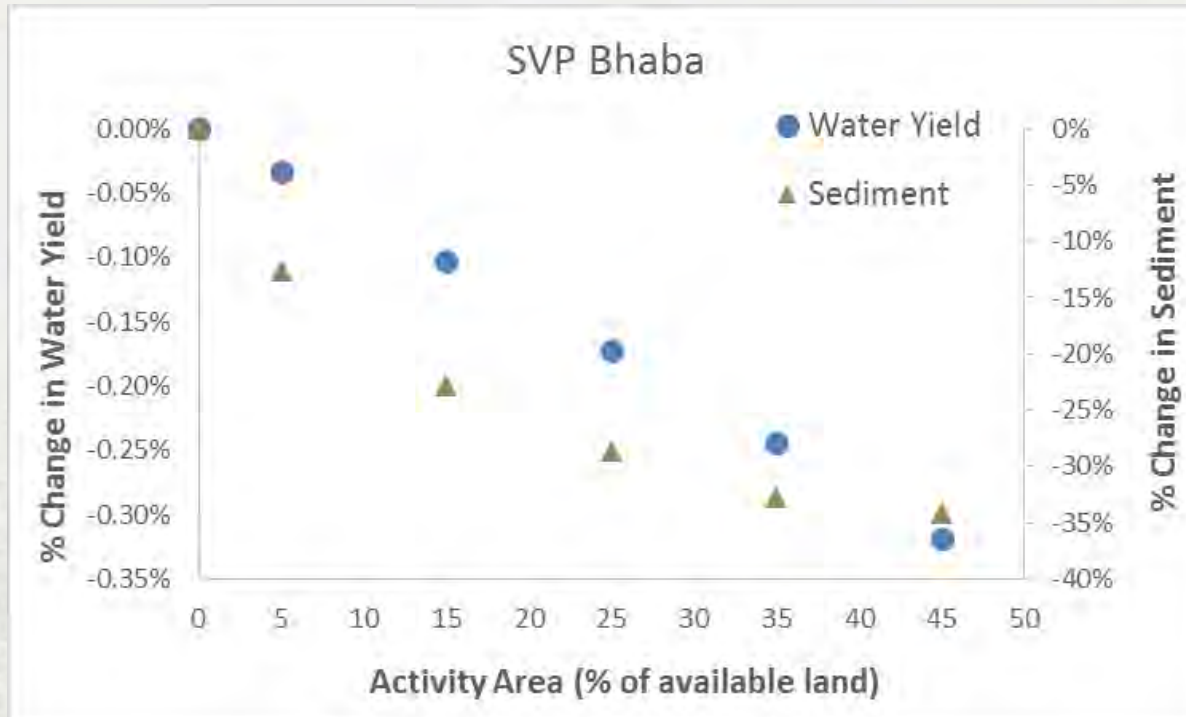CHABA

BENEFIT OF ACTIVITIES
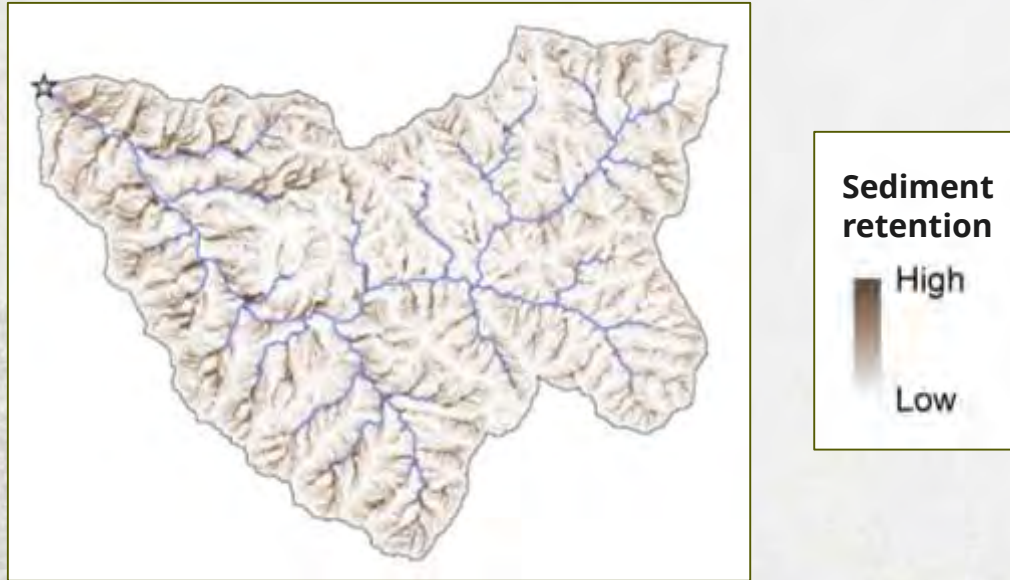## GHANVI

BENEFIT OF ACTIVITIES
NATHPA JHAKRI

BENEFIT OF ACTIVITIES
SVP BHABA

ADDITIONAL RESULTS

Sediment retention landscape patterns

Sediment retention by microwatershed

Sediment retention

High

Low

WHAT RIOS/INVEST CAN TELL YOU

- Targeting investments in watersheds to improve ecosystem service delivery

- Relative change in services:
  - Help to design PES scheme: Where do opportunities exist?
  - Help to set budgets: How much should we spend to get X% improvement?

- Relative value of different micro-catchments for watershed services