

Pesticide Risk Reduction Programme – Ethiopia

Definition of protection goals - results

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joint collaborative programme on pesticide registration and post-registration



MoA



ALTERRA



Towards a sustainable use of pesticides in Africa

Protection goals: surface water

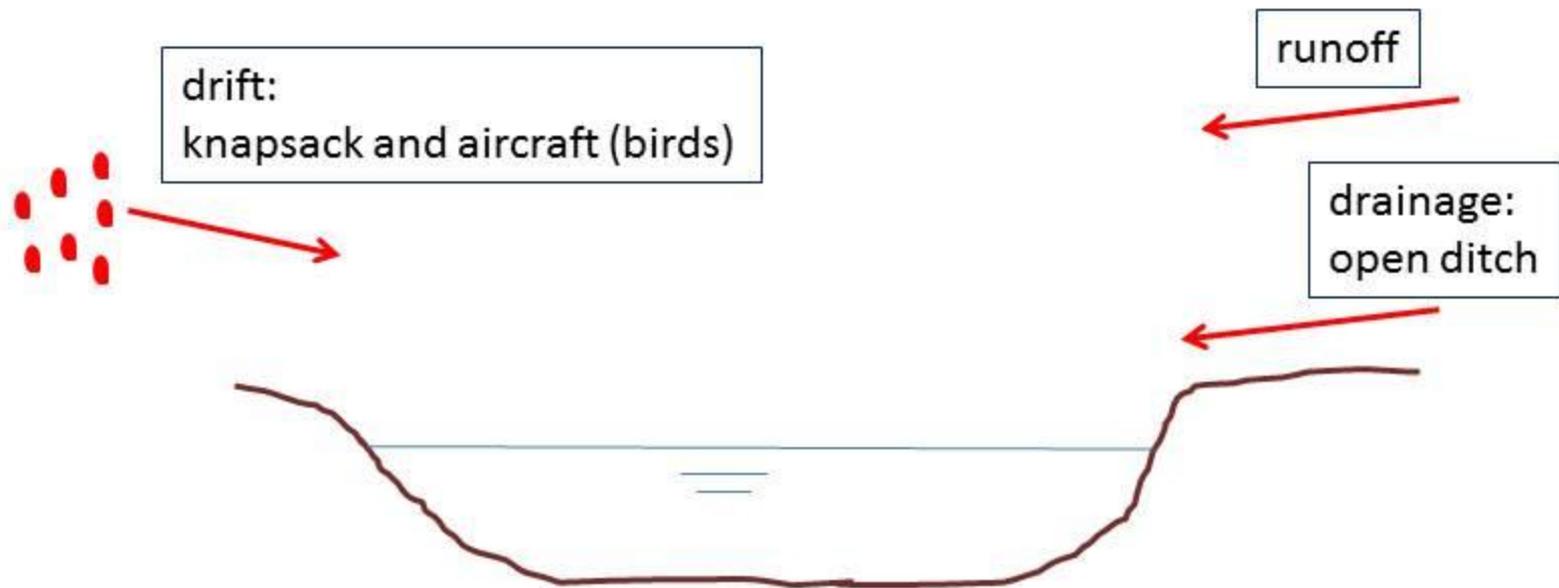
Elements conceptual model:

1. Details protection goal (drinking water for man or cattle, until when, irrigation water, aquatic ecosystem, exact patch/stretch to protect ?)
2. Entry routes (drift, runoff , drainage)
3. For drift:
application techniques,
distance crops-edge of water
4. Size water body ($l * w * d$, dynamics)
5. Size contributing area
6. Crops and treatment ratio of contributing area

Protection goals: surface water

1. Rift Valley lakes

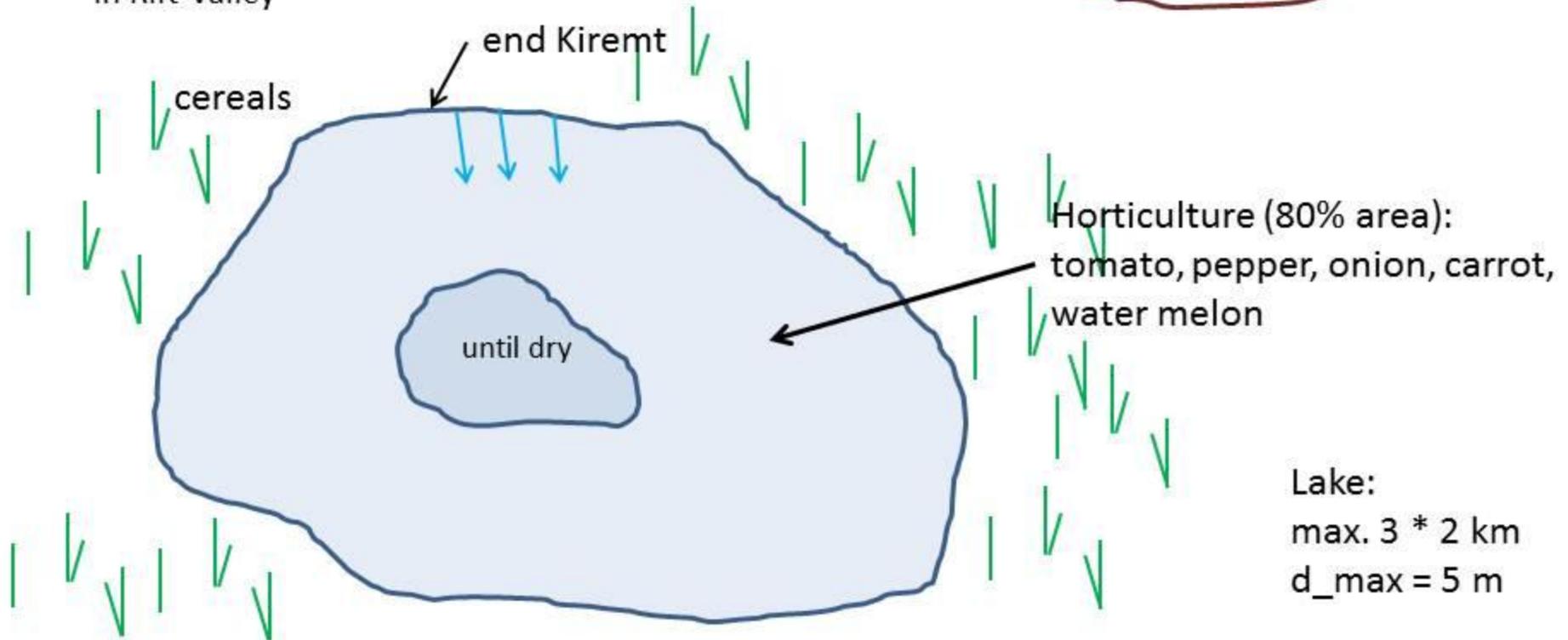
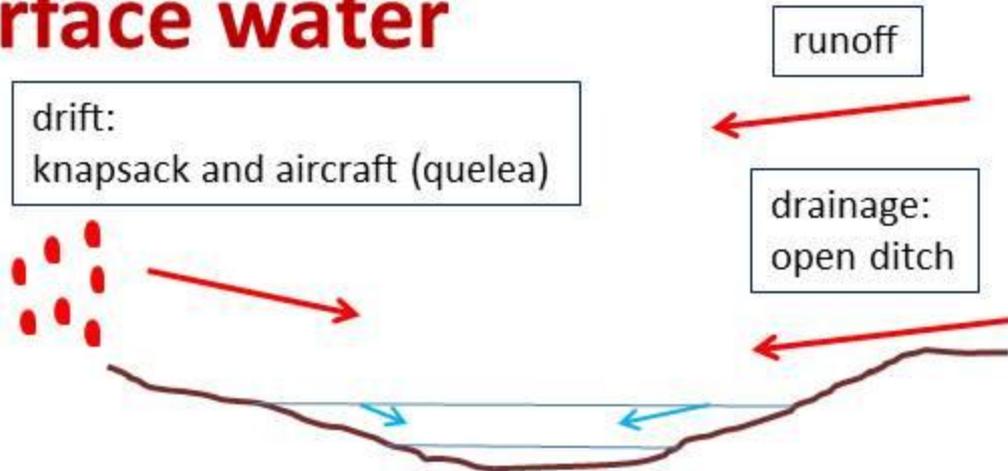
- Drinking water for man and cattle
- E.g. lake Ziway, lake Nagano, select smallest lake



Protection goals: surface water

2. Temporary lakes

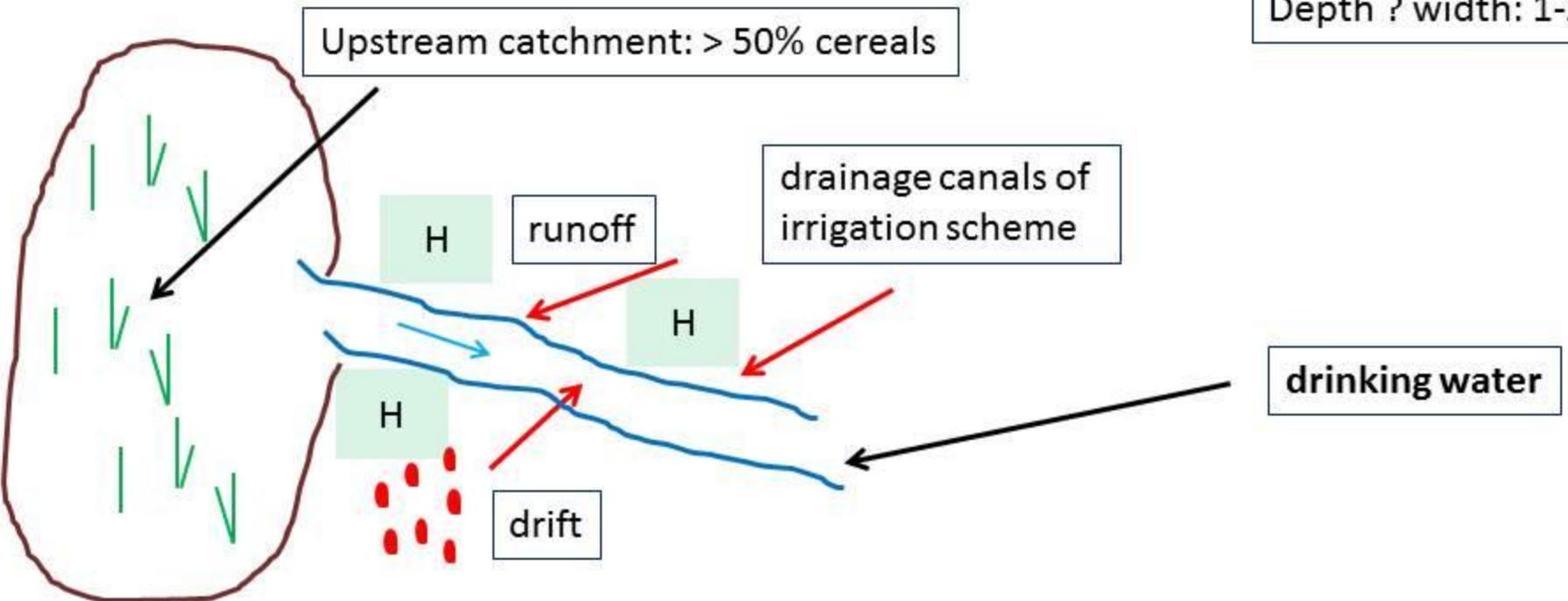
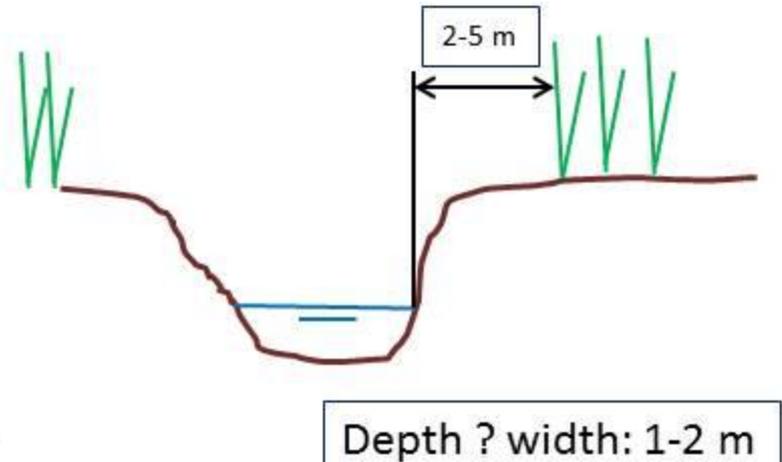
- Drinking water for cattle (until dry)
- Horticulture (irrigation with pumps)
- Start after Kiremt rains until dried up
- E.g. Koka area (swamp), in Rift Valley



Protection goals: surface water

3. Stream/small rivers

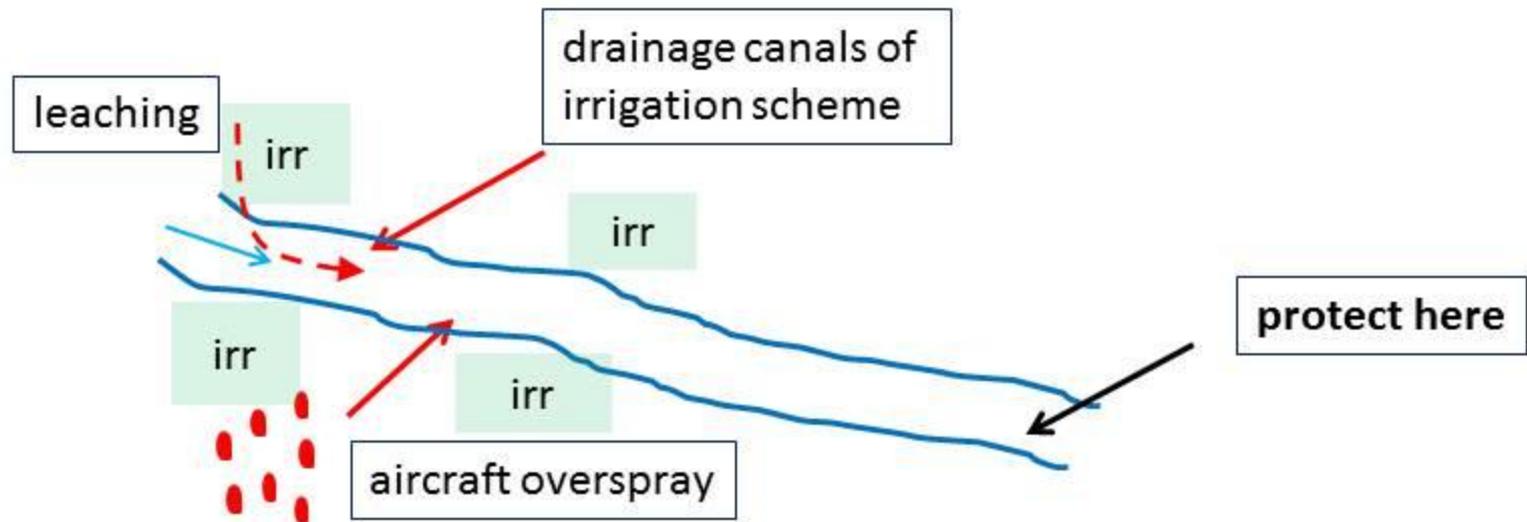
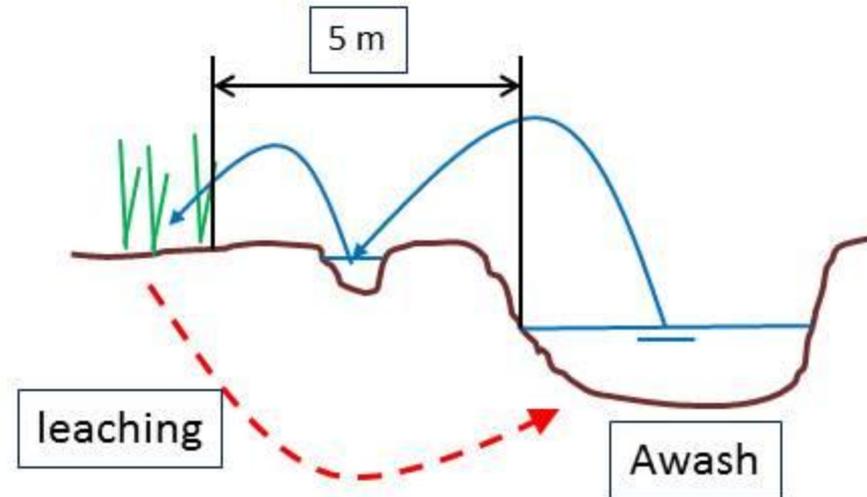
- Drinking water (villages) until depleted (just before Kiremt, horticulture still done)
- Drinking water for cattle
- Irrigation of horticulture (H)



Protection goals: surface water

4. River Awash (main river)

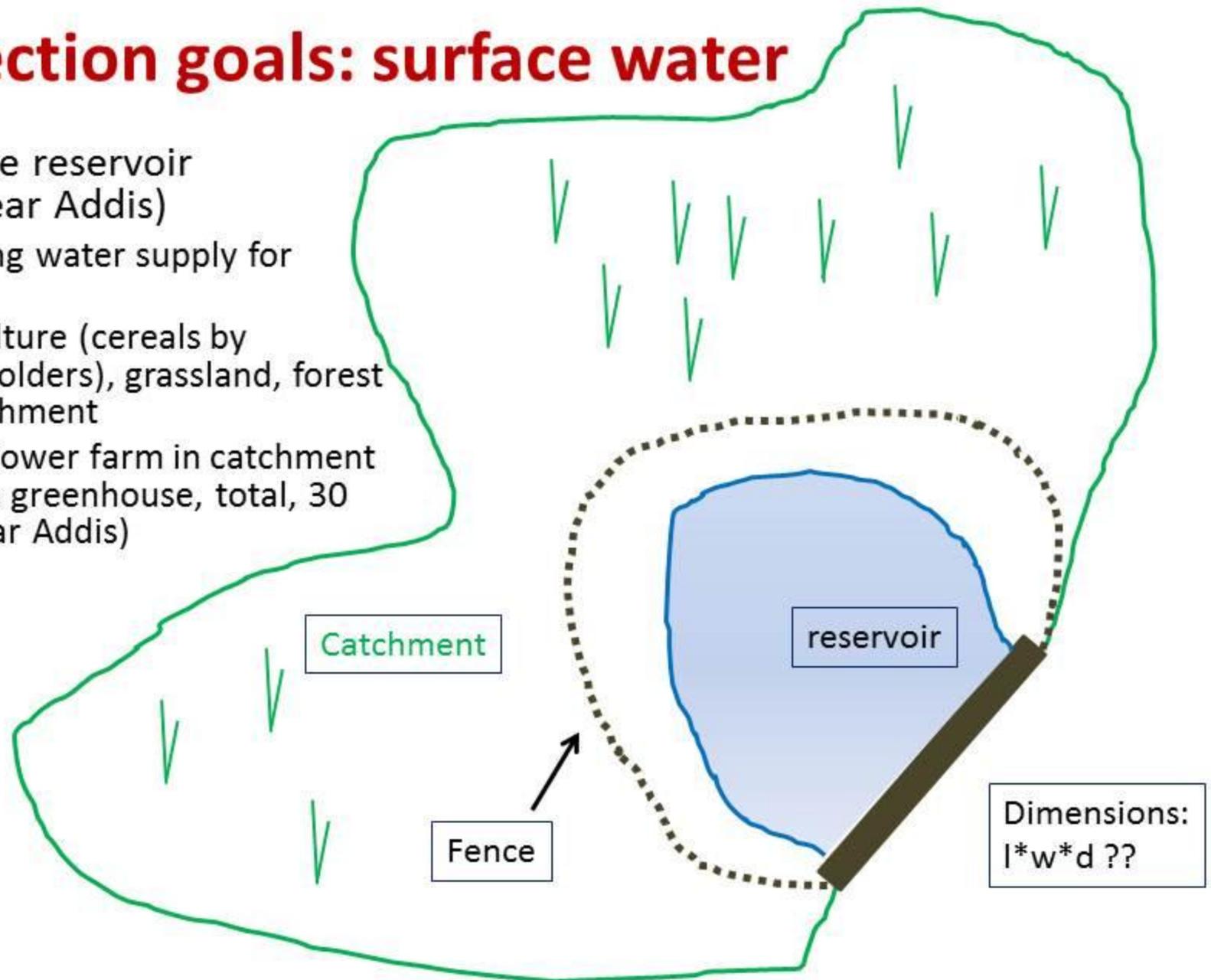
- Downstream end of large scale agricultural area (cotton, sugarcane in NE site)
- Drinking water for man ?, cattle ?
- Irrigation downstream ?



Protection goals: surface water

5. Storage reservoir (e.g. near Addis)

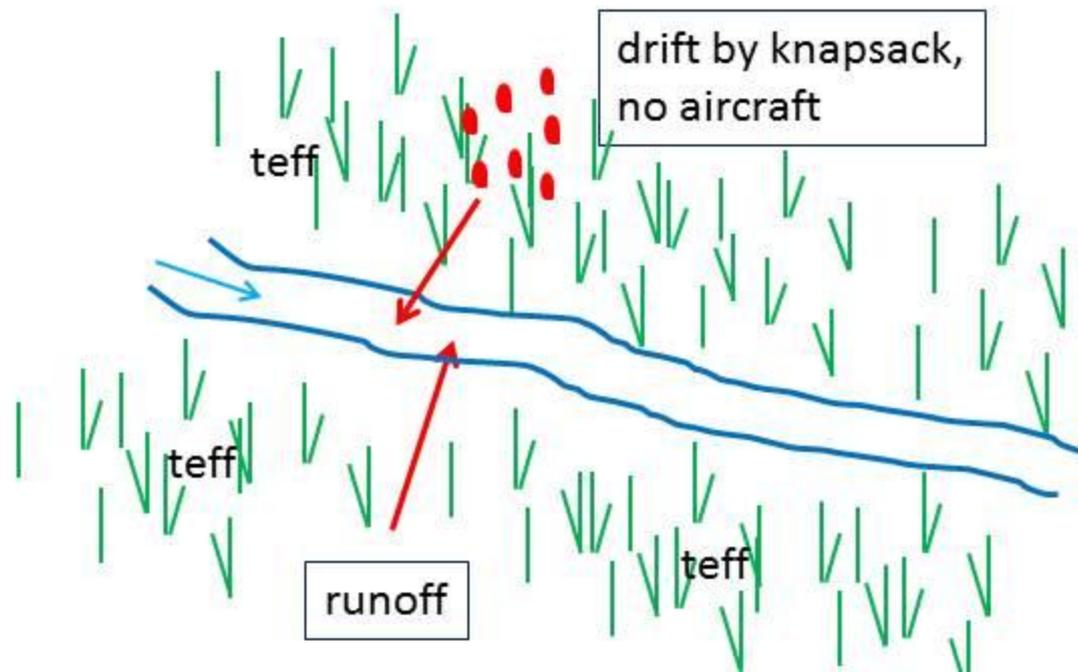
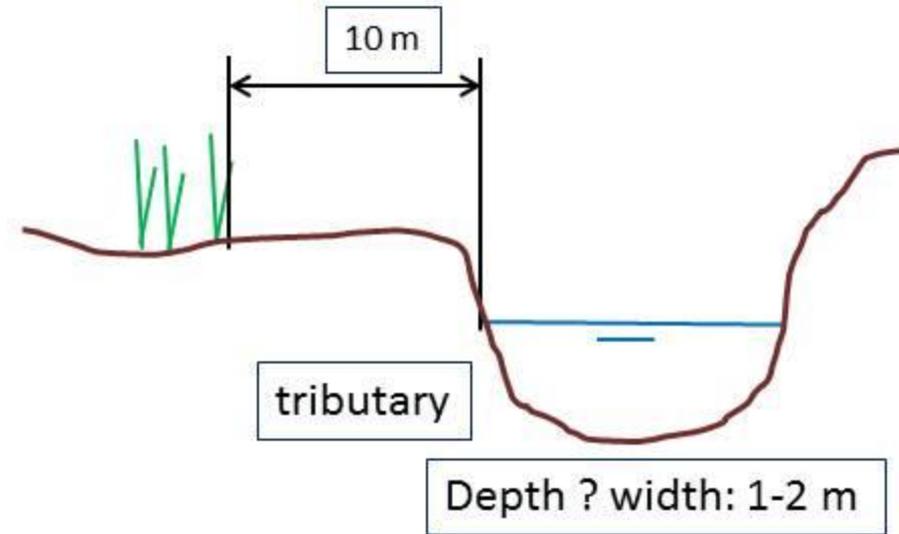
- Drinking water supply for towns
- Agriculture (cereals by smallholders), grassland, forest in catchment
- Even flower farm in catchment (22 ha greenhouse, total, 30 ha, near Addis)



Protection goals: surface water

6. Tributaries of Awash, Blue Nile etc

- Some run dry, some permanent
- Teff areas, no irrigation
- Drinking water for man and cattle
- Irrigation downstream ?



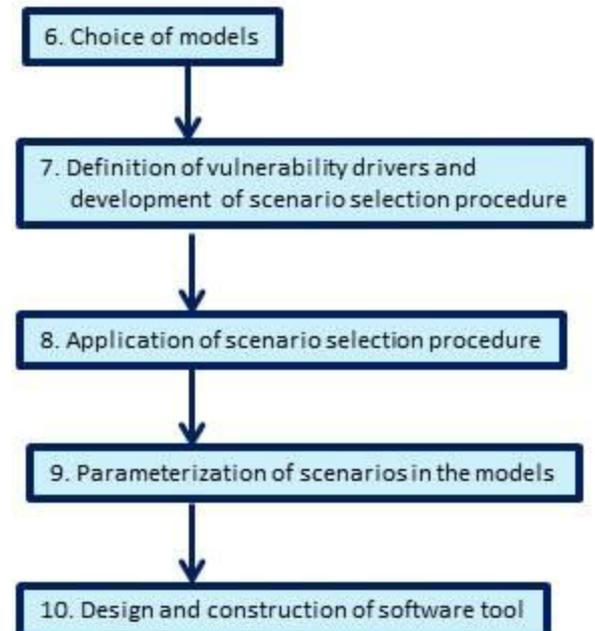
Rotation

- teff (2-4D, weed control)
- pulses (bolworm, aphids)
- wheat/maize (....)
- oil seeds (-)

All in Kiremt

Protection goals: next steps

1. Detail sw protection goals as far as possible
2. Make scenario zones (one set for sw + gw !)
3. Make outline, planning + budget
4. Select 2, 3 most vulnerable sw protection goals
5. Couple these to scenario zones
6. Steps 5-10
7. Add gw protection goals



Definition of protection goals

