# Conservation Development situations in the World and Member Countries and Policy Implication of C.A.

- CA adopted in America, Australia, U.K., Brazil, Canada
- Latin America and South Asian countries
- CA promoted
  - easy credit
  - extension programmes
  - pasture conversion by providing free seedlings
  - enforced land retirement due to excessive soil erosion and taxes due to soil erosion
- **♦ In France, Europe, Spain CA 1 m.ha.**
- European Agriculture Federation (EAFs)
- United National Associations in France, Germany, UK, Spain, Portugal and Italy founded to promote CA.

- CA has been adopted in Japan, Malaysia, Indonesia, Nepal and Bangladesh
- Community led initiative strongly supported by R&D organizations and farmers and industry participation widespread adoption.
- Targeted Policy Approach and Motivate Farmers
- Punjab Water table going down-grow other crops than rice
- Pride and Peer pressure- Canada, Ontario's Environmental Farm
- Plan(EFO) Programme- innovative approach to Envirn. Conservation & voluntary participation of farmers to assess the Envir. Risks & riase environmental awareness
- Farmers driven process supported by Govt. through funds & technical advise.
- Appropriate Incentives- short & long term impact, diversification
  Infrastructure

### **Conservation Policies & Programmes**

#### **CA Programmes/Studies launched**

- African Conservation Tillage network(ACT)
- French Agriculture research Centre for
- International development(CIRAD), swedish
- SIDA funded Regional land Mgt. Unit
- FAO

#### Study throws light on

- Challenges farmers face in keeping soil covered
- gaining access to adequate equipment
- Controlling weeds
- Challenges faced ti implement true PA

## Farm Conservation Bill of US

# Lays emphasis on- Cons. of resources, clean water, improvement in Grassland habitat & biofuel

- CSP- maintain & enhance quality of water, air, soil & habitat-\$ 45,000/year
- CRP-reduce soil erosion-plant grasses-rental payments & 50
   cost sharing
- WRP-restore & protect wetlands- 100 % funding
- GRP- help to protect & restore grasslands, pasture, range and other lands (90 % restoration cost funded)

- FRPP protect Ag. land from urban sprawl & other development- one time payment
- EQUIP- to reduce air and pollution use, energy use and wildlife impacts (70% cost sharing)
- CWLCP- ensure no ovarall net loss & achieve net gain in performance of wet land acreage

## **Conservation Policy in India**

- No Policy as such
- Govt- Watershed Development Programme- to conserve water & reduce soil erosion
- Promotion of RCT-zero-till drill, laser land leveling, straw baler, straw combine etc.
- R-W Consortium- ICAR- CIMMYT
- Alternate crops –Diversification

## Following recommended

Minimum support price, subsidy, Institutional financing, no free electricity, PPP, Land consolidation, Encourage Cooperatives, voluntary participation of farmers, NGOs, etc.

## Conservation Ag. Strategies in India

#### Conservation of water through

- paddy sown in unpuddled soils
- paddy sown on ridges
- Less frequency of irrigation
- laser land leveling- 25 % saving in water

#### **Conservation Tillage Studies**

Development & demonstyration of zerotill drill, strip till drill, roto-till drill, till planting, raised bed planter etc.

## Conservation Ag. Strategies in India

#### Farm Residue Management through

- stubble shaver,
- straw chopper cum incorporator
- straw combine
- straw baler

#### **Environmental Pollution**

- Exhaust gas emission norms for tractors/engines
- Fuel standards
- CNG
- Biofuel Mission

## Conclusions

#### **Benefits accrued of CAT**

- Reduction in cultivation cost (1500-2000 Rs/ha)
- Savings in water and nutrients (25-30%)
- Reduced occurrence of weeds and savings in pesticides (20-25%)
- Increased yield (05%)
- Protection of environment by elimination of burning of straw (Cattle feed)
- Facilitating recycling of residue and plant nutrients (Back to soil)
- Opportunities for sensible/profitable crop rotations.

## WE to Conserve for US

