AGRICULTHUE

Efficiency in agriculture (or any sector)

Want decision-making agents to acct for all social costs/ benefits in deciding

- what to produce (g o for high value)

- how much labor to use

- how much labor to use — how much labor to use

equate MPL to MPL in other sectors · equal MP effort to disutility of effort

- crost-l/investment including land improvement, fallowing, fertilizing...

Use best available technology, optimal scale.

Obvious way to achieve it

1) Fully-assigned, transfervable property rights in land. (identifiable owners

So that managers who can create highest value with land can bid for it, get it.

Best ownershop rested in individuals [not family groups, tribe, ...) became ikt hard to get group to gree to a deal, Harder to buy off all hay- sayers.

AGRICULTURE Efficiency (cont.) Obvious ways (cont.)

2) Agent who makes production linvestment decisions is "resident claimant" (gets prifit) free of constraints (except regs/taxes to fix externalities)

Lahor systems
Often, landowners & potential labor are different
horseholds. How to cooperate?
Obviously good systems:

- Landowner is manyer/resident claimant, hires labor at fixed wys.
- Labor is resident claimant, rents land at fixed rent (in money or staff
- Manager (in England, "Farmer") is resident claimant, rents land at fixed rents hires labor at fixed wage.

Labor systems (cont.) Thavecropping (or share tennney)

Common in many times, places "Kent" to land lord is share if crip "Wage" to labor 13 share of crop

Old iden (Adam Smith):

it is inefficient because either landlist or laborer must be controlling proty but controller gets only a share of output, so will under-invest, under-work [low effort)

For example: for efficy, exert effort to point where marginal sintutility effort = MPL

sharecropper will choose

Chis share of crip = X, MPL

AGUICNLTYLE Lahor systems (cont.) Sharceripping (cont.)

New View:

- 1) potential inefficiency controlled by other features of sharecropping deals
 - laborer of tenant share contril
 - contract specifies shares of investment costs
- 2) why do sharecropping at all? response to absence it -perfect insurance met
 - perfect Financial mtd (liquidity constraints)
 perfect info
 - Why not

Fixed Went

1) Risk to tenant (absence of insurance)

z) Can't pay went if crops fail (lizurdity cons. t.) 3) Cont pro-specify, monitor all injusts needed from

lard lives, so

give incentore by...

Fixed Wage

- 1) Kisk to land lived (____ insurance)
- z) can't vay wase if... crops Fail (same)
- 3) Carlt. ---

From tenant, so give itentive by ...

AGRICALTABE

Economic history in developed countries

US

Always Freehold, transferralle, individual (And ownership Lots of "family Farms," owned or consh-rent Share cropping in Jonth 1870s—1950s

Britain

Around same time as Industrial Revolutions
"Agricultural Revolution" - velatively rayed
"Agricultural Revolution" - velatively rayed
a Joytion of new technology &
very high TFP (relative to Envoye)

Big estates (few landowners)

Land vented on long-term leases to

Wealthy "Farmers" who hive wage labor

Contrast to Enrope.

Economia History

UK Ccort.)

How did UK get 18th, C. system?

Enclosury movement

Medievel system

3 Commin Fields, common paskave & waste

A family owns or vents many scattered small plats

All plats planghed, planted, fallowed as one by Field

in coordination with other villagers,

"Tragely of the commins" avoided by rules

that specify how many animals each family

can have

Enclosave

Reallocate Fields, divide up common & wasde, give each family a consolidated land holding, matching pre-enclisave share of land.

After 1700, his estates buy up smell holdings.

Role in Verelopment Today

In many poor countries, property rights in land not fully assigned to individual horseholds, transferrable

What kind of inefficiencies? How can id be Fixed?

Many gort, policies that redistribute land, regulate form labor, tenancy.