

1. Von Thunen's Location Theory
2. Sinclair's Theory
3. Olof Jonasson's Theory

Theories in Agricultural Geography

Von Thunen's Location Theory



MODEL

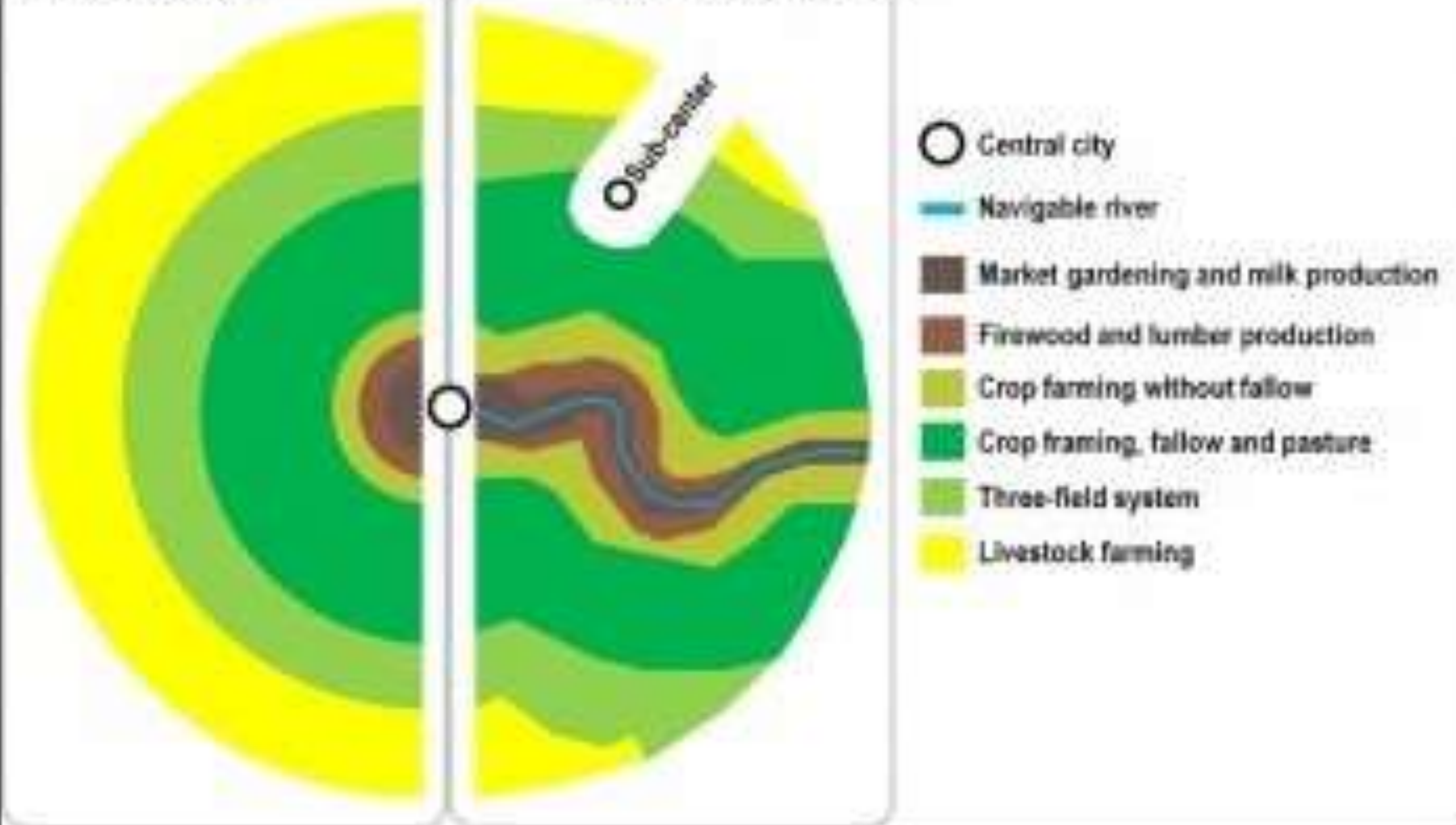
Von Thunen Model

- Von Thunen Model
 - What farmers produce varies by distance from the town, with livestock raising farthest from town.
 - Cost of transportation governs use of land.
 - First effort to analyze the spatial character of economic activity.



Isolated State

Modified Conditions



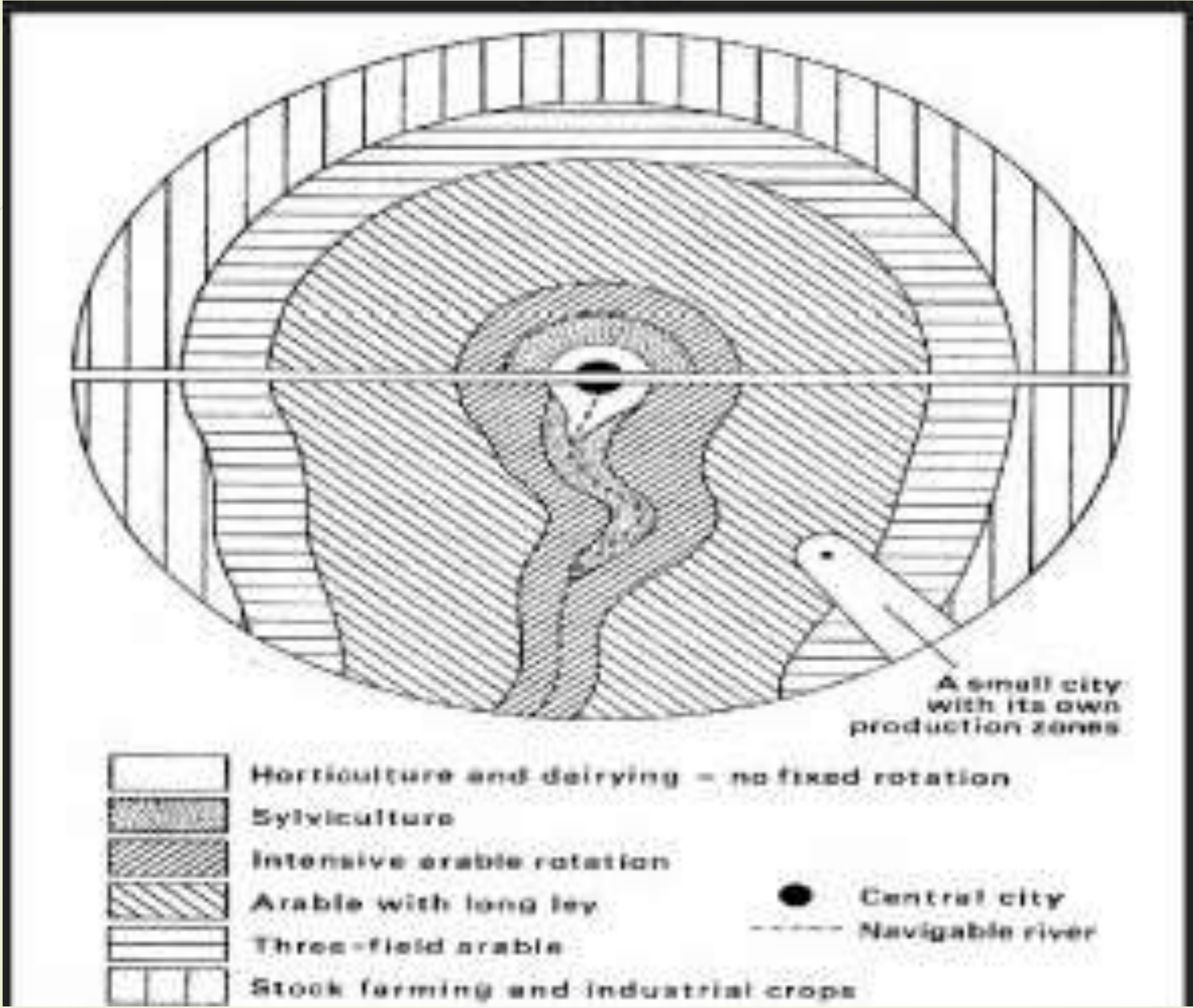


Figure 14.2

Stages of formation of the agricultural landscape in von Thunen's model

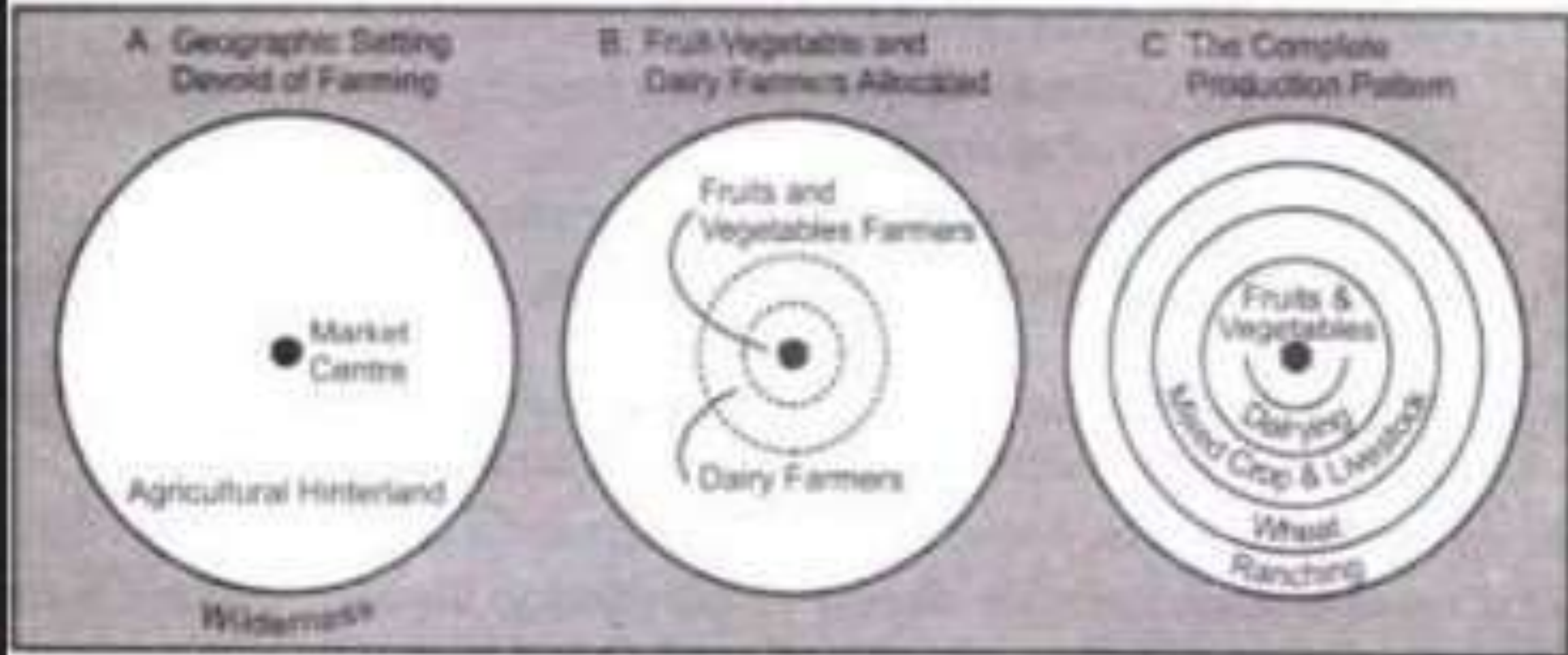


Figure 14.8

Location of two market centres and general land use pattern

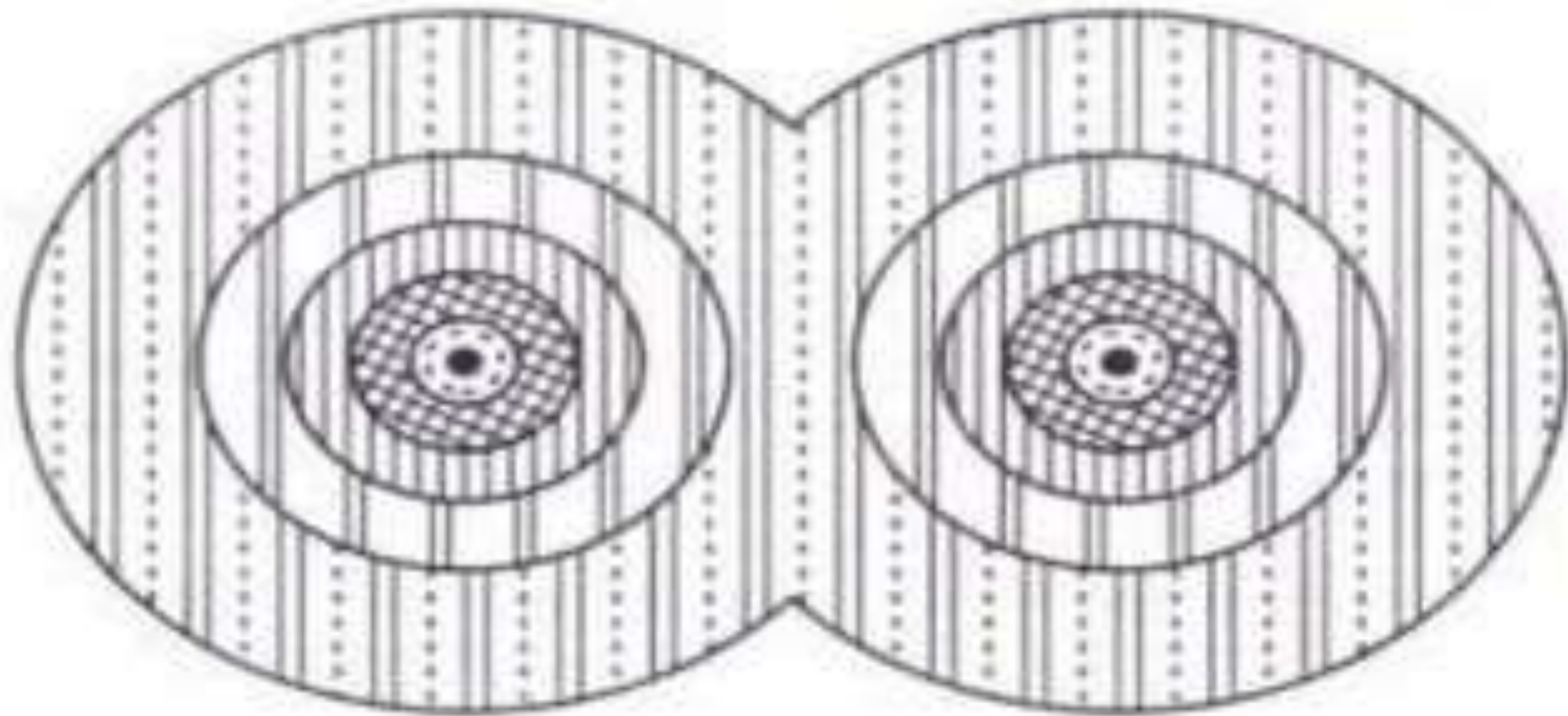


Figure 14.9

Location of three market centres and land use pattern

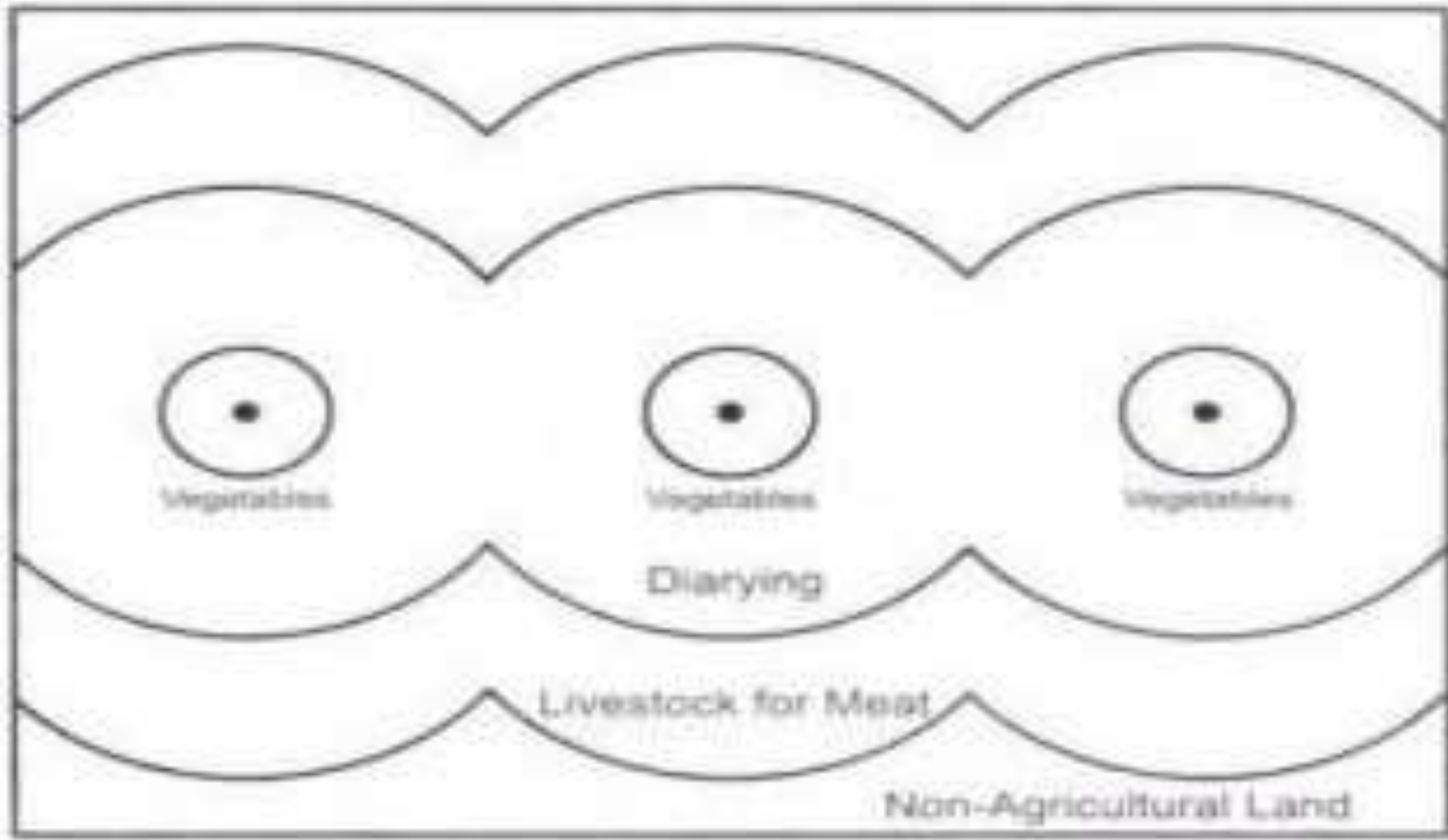


Figure 14.10

Location of several market centres and land use pattern

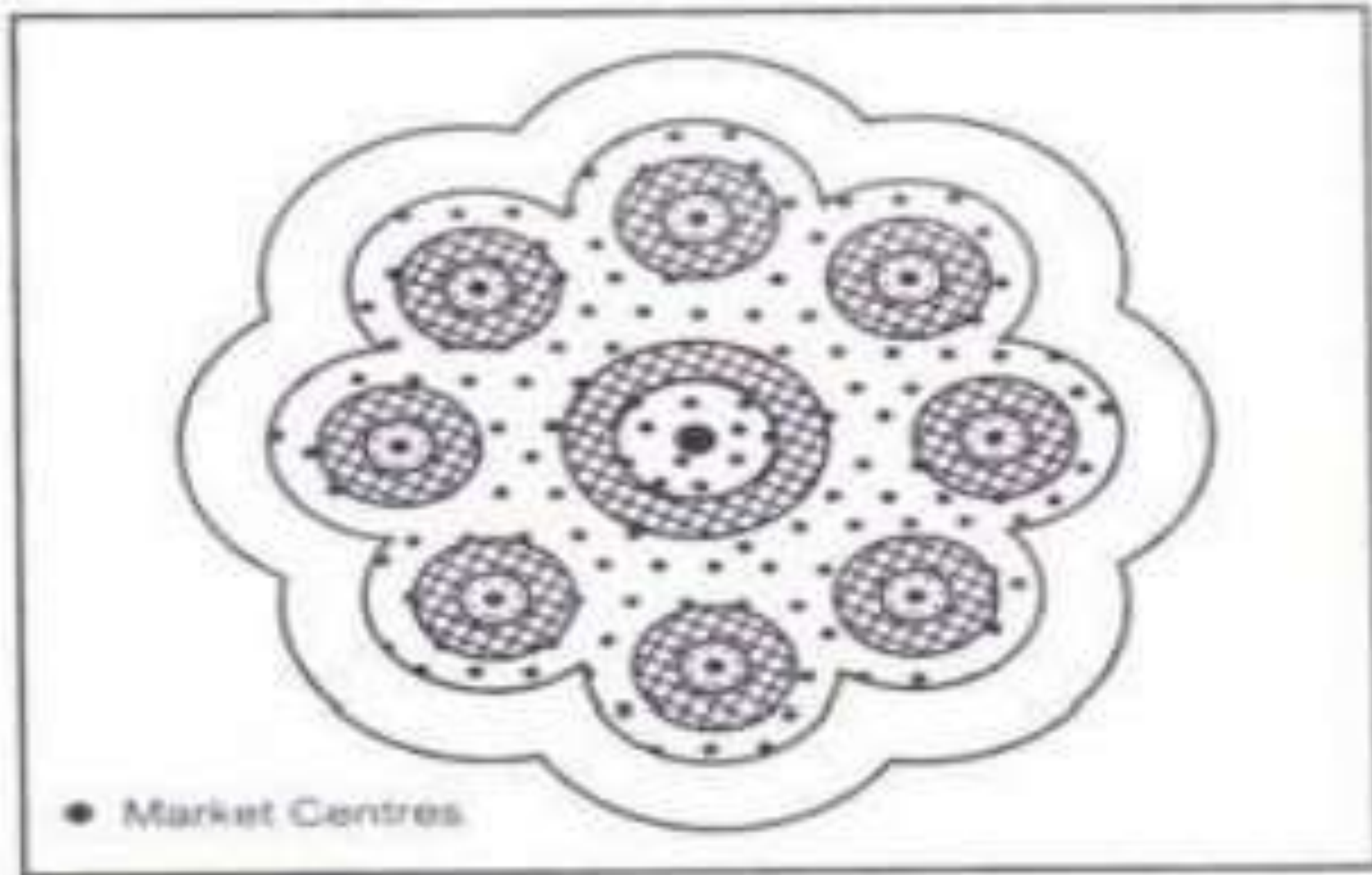
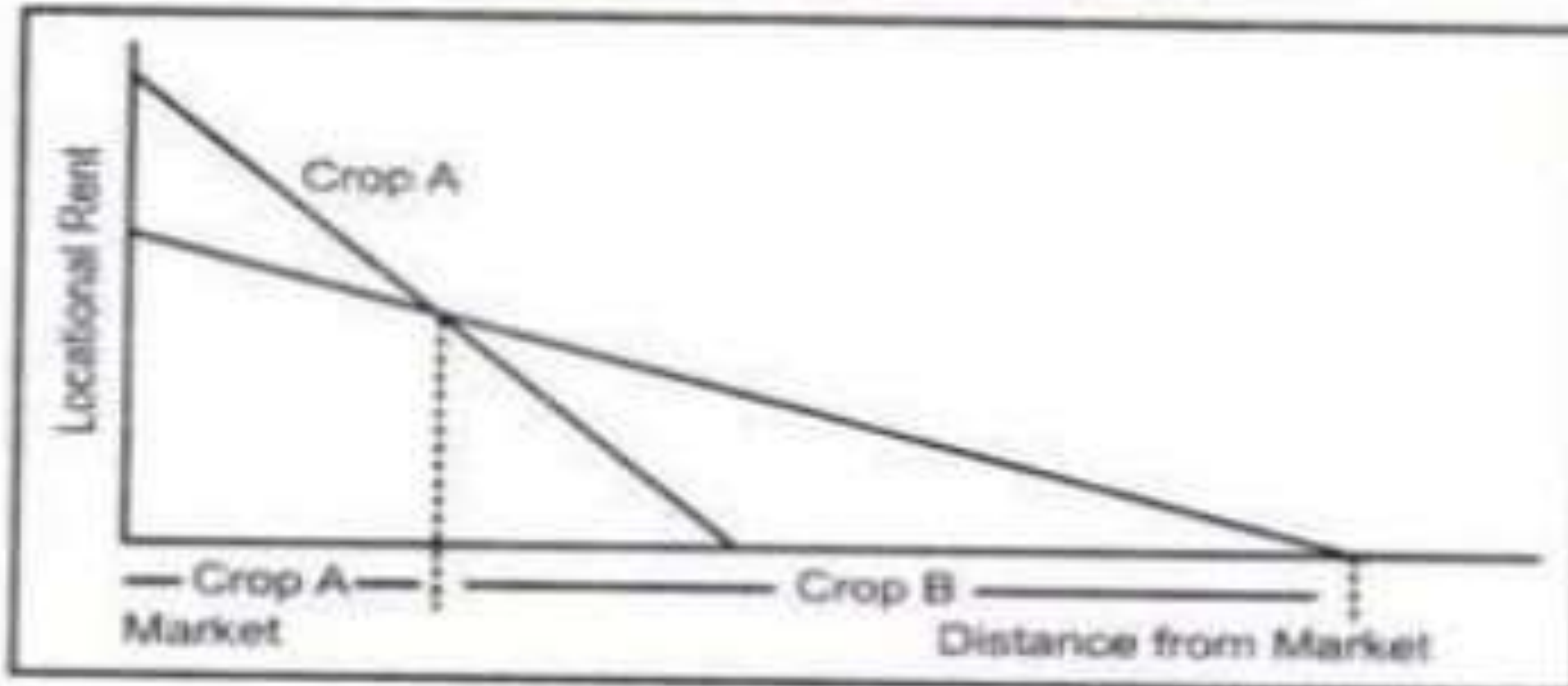


Figure 14.1

Locational rent and distance from market

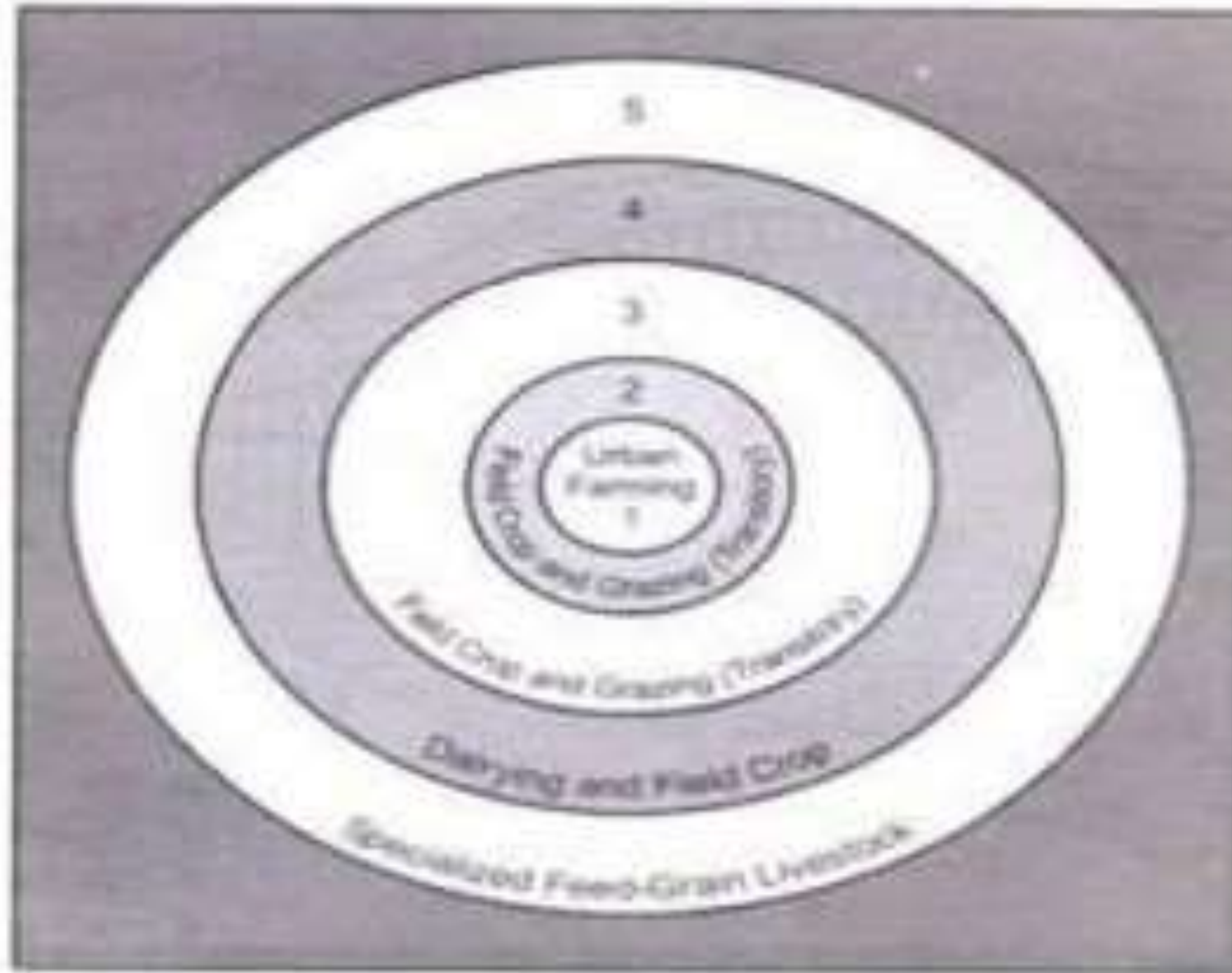




Sinclair Model of Agriculture

Figure 14.13

Land use pattern as described by Robert Sinclair

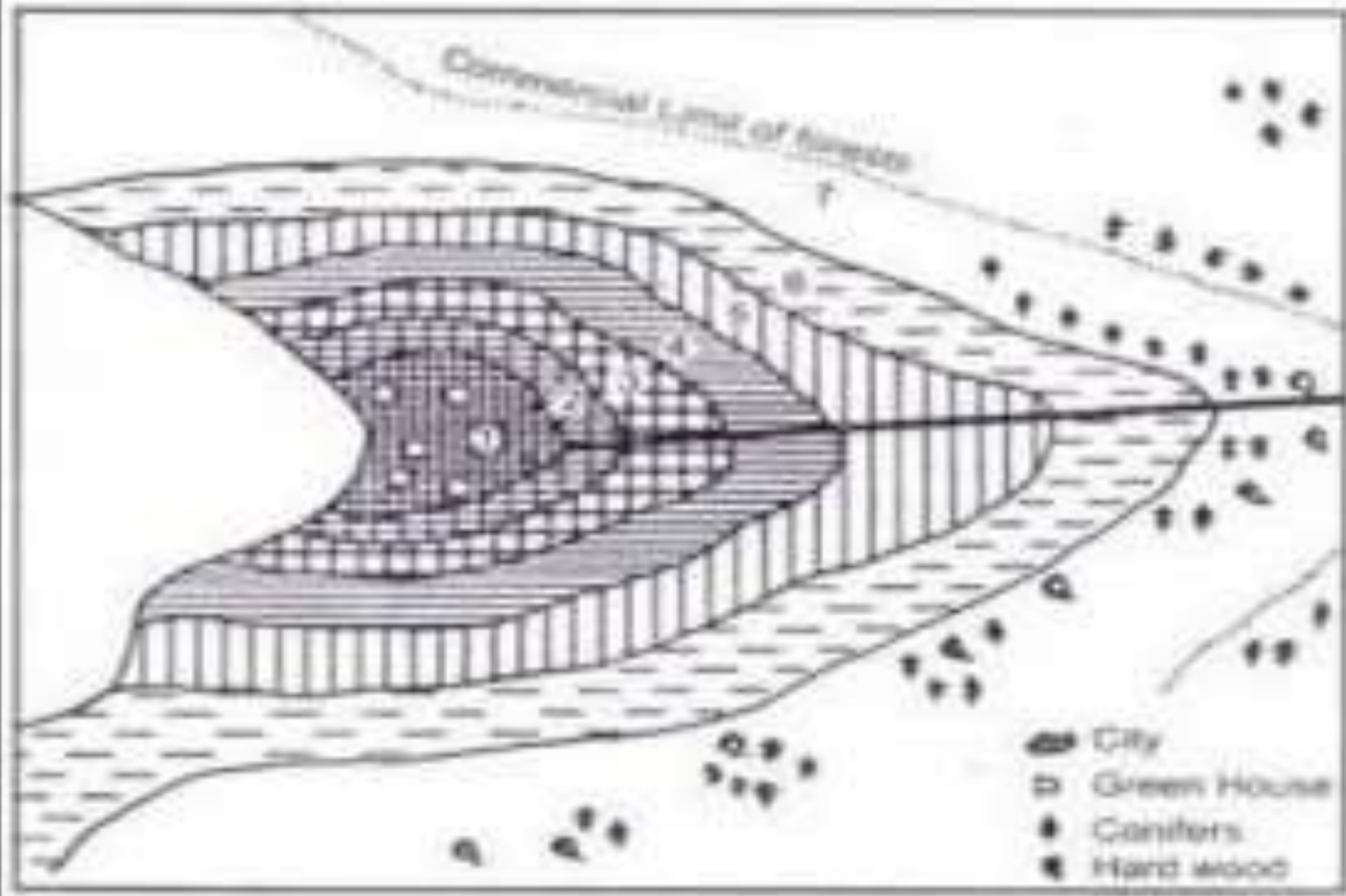


- (i) urban farming, a hodgepodge of small producing units, scattered through the already subdivided outer suburban environment, which favours poultry-keeping, greenhouses, mushroom-raising, and other building-oriented uses;
- (ii) (i) vacant and temporary grazing, where farmers leave much land empty to sell to urban land speculators at the most opportune moment and allow grazing only under short-term leases;
- (iii) (ii) transitory field crop and grazing, a transitional agricultural type dominated by farm uses, but with definite anticipation of near-future displacement, expressed by little investment beyond the short term; and
- (iv) dairying and field crop farming, wherein farmers begin to shift to more extensive agriculture with a view towards encroachment in the foreseeable future.

Olof Jonasson's Theory

Figure 14.14

Zones of production about a theoretical isolated city in Europe according to Jonasson



Zone 1: The city itself and immediate environs, green house, floriculture,

Zone 2: Truck products, fruits, potatoes and tobacco (and horses).


Zone 3: Dairy products, cattle for beef, sheep for mutton, veal, forage, oats, flax and fibers,

Zone 4: General farming, grain hay, livestock,

Zone 5: Bread cereals and flax for oil,

Zone 6: Cattle (beef and range); horses (range); and sheep (range); salt, smoked, refrigerated, and canned meats; bones; tallow and hides,

Zone 7: The outermost peripheral area, forests,



Input-output models

Theory of optimum physical conditions and limits

Theory of optimum economic conditions and limits.

Spatial equilibrium models

Game theory

Diffusion models

Behavioural Model