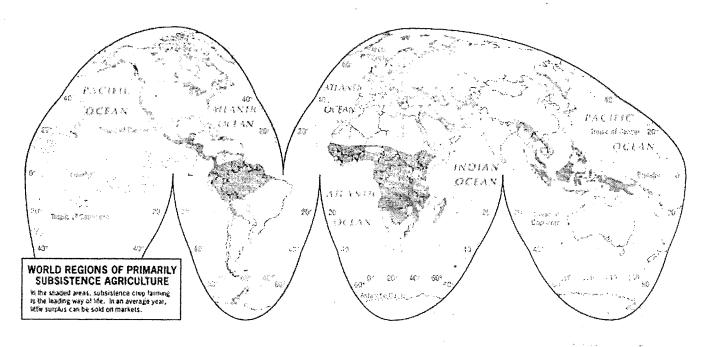
Name:	KEY	Period:	Date:
Unit 5	Origins of Agriculture and the Isolated State		Rural Geography
addition to your r	ormation corresponds to Chapter 11 in your textle eading is important, not just the blanks you fill in the control on the cont	pook. Note: All of the n.	e following information in
extraction of rand gathering, processes ray industrial processes ray in	activities – the Subsistere sector; direct natural resources from the environment; hunting herding, fishing, mining, lumbering, activities – the Production sector; materials and transforms them into finished ducts; production of an almost infinite range of (toys, chemicals, buildings,) activities – the Serve sector; engaged in sportation, banking, education,) concerned w/ collection, processing, and	Primary (subsistence)	Accelerating Change Tertiary (Service) (Product n) Economy
insurance, leg	or information & capital (finance, administration,	Economy	Time
Hunting and g Agriculture por future (along Before farmin Michael The 1st Acthe Fertile Cre and animal de Subsistence This type personal to but fre Michael Cultivatio cutting &	the deliberate tending of crops and livestock is athering dominated before agriculture—a receive a receive that the assument of the consumption of the consumption, and usually not for trade (e.g. Central mers are confined to small fields; very likely they confeccioned to strictly and the consumption of the confeccion	ent innovation (~12,00 rance that	oo yrs. ago). would be available for the at least one example of each: nestication. egions became warmer. ara) concurrently in areas like explosion, along with plant b. nology; food production is for ub-Saharan Africa, S.E. Asia). I they till.
newly cle worldwid • The 2 nd Ac Middle Ages,	ared land (150-200 million people e).		



The Isolated State

• Johann Heinrich Von Thursen (1783-1850) witnessed the 2nd Agricultural Revolution firsthand (in Rostock, Germany), his model was the first effort to analyze the patial character of economic activity. Key elements of his model included:

o Four <u>Concentric</u> rings formed around the city, within which particular commodities (or crops) dominated, and others were replaced (without any visible change in terrain, soil, or climate)

o Closest to town [1] - Dreying and intensive farming occur in the ring closest to the city. Since vegetables, fruit, milk and other dairy products must get to market quickly; highly perishable items, high priced.

o [2] Timber and firewood would be produced for tream and boilding materials in the second zone.

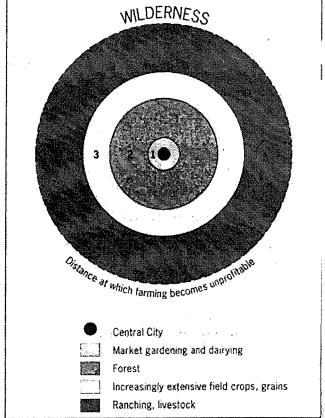
Before industrialization (and coal power), wood was a very important fuel for heating and cooking. Wood is very heavy and difficult to transport so it is located close to the city.

o [3] Extensive <u>field</u> crops such as wheat for bread, or other grains (less perishable). Since grains last longer than dairy products and are much lighter than fuel, reducing transport costs, they can be located <u>farther</u> from the city.

Outer ring [4] - Ranching and livestock-raising is located in the final ring surrounding the central city.

Animals can be raised far from the city because they are self-sufficient. Animals can walk to the central city for sale or for butchering.

Von Thünen's model assumed: 1) flat terrain, 2)
soil quality and conditions are equal, 3) no
barriers to transportation done by land (& no roads), 5) farmers will act to maximize their profits, and 6) the city is self-sofficient, with no external influences.



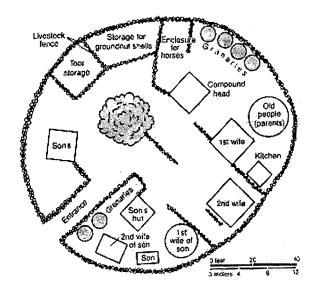
Na	me:	KEY			Period	l;	Date:	
	Unit 5	Landscape	es of Rural	Settlemen	ts	Rura	al Geography	
The def	The following information corresponds to Chapter 11 in your textbook (**********). Fill in the blanks to complete the definition or sentence. Note: All of the following information in addition to your reading is important.							te the
Th	e Third	Agricultural Revolu	ation					
•		d Agricultural Revolu		own as the G	reen Re	evolution, ar	nd began in the 1	930s &
	40s when	ı American agricultur	rists manipulate	ed seed variet	ies of <u>corr</u>	1_ to increase	crop yields in M	lexico.
•	It has not	t just been the produc	tion of higher	vieldingV <u>ARIE</u>	<u> 71 65</u> (e.g. II	R36 = RICE	– also developn	nent of
	chemical	fertilizers, insecticide	es, irrigation, m	achinery, and	l hybridiza	tion (e.g. mo	re disease-resista	nt).
•	MEXICO	was no longer impor	ting corn by 19	160; <u>INDIA</u>	was self-su	ıfficient in wl	neat by the 1980s	; and
8	Despite t	saw a 2/3 increase in	rice productio	n between 19	70 and 199	5	SUB-SAM	HARAN
	Why? -	hese successes, the G	P. J. Acare	n nas nau omy	y a margin	ai impact in r	nuch of AFRIC	<u>A_</u> :
		- LAWER SOIL I	TERTILITIES	1-0WER 1	Alue Crude	- 1		
•	An entire	- LOWER SOLL I	<u>••</u> ⊬ has spru	ng up in conju	inction wit	th the Third A	Agricultural	
	Revolution	on, focused on the de	velopment of g	enetically eng	ineered cro	ops (GE) or <u>&</u>	ENETICALLY	
	MODIFIED	<u>DRGANISMS</u> (GM	1Os); these can	be found in	<u>/5</u> percen	t of all proces	sed food in the I	JS.
•	ctability	ns for the Green Revo	olution to be a s	uccess within	a region ii	nclude – surp	lus LAND, p	OLITICA
	opposed	to a command (comm	usience) rarmer	s, transportati	ion and / <u>NF</u>	RASTRUCTURE a	Countries	my (as
,	China, In	idia, and Mexico have	e benefited perl	naps more tha	n other rec	zions (e o Su	Saharan Africa	les like
	Condition	ns that limit success i	nclude – a decl	ine in Soll	guality, Re	Sources (e.g.	. water). increase	ed ed
	USE OF	f fuel & fertilizer, lack	of Equality	(e.g. women	unable to r	eceive credit	, crushing D∈B	Τ
	(individu	ial & national), Environ	factors (ero	sion, desertifi	cation), los	s of DIVERSI	Ty_ (fewer cho	ices),
$\mathbf{p}_{\mathbf{a}}$							/	-
9	 Patterns of Settlement and Land Use The size and structure of rural regions depend on space, environment, and social norms (as well as laws). 							larural
•	PRIMOGEN	System in w	hich all land pa	sses to the eld	lest son: th	e norm in no	rthern Europe (a	nd in
	• Γριμοσενίτους system in which all land passes to the eldest son; the norm in northern Europe (and in their colonized areas – Americas, South Afr., Australia,)						tions	
•	CANACTORI						• -	
J. S.	• Rectangular survey system (adopted by the U.S.); the TOWNSH-1P - AND - RANGE system -							
Rectangular survey system (adopted by the U.S.); the Township - And - Range system - designed to facilitate the even dispersal of settlers; the basic unit is the 1 square mile section; used across the Midwest (Northwest Ordinance - 1787) & also in Canada. The METES AND BOUNDS SURVEY approach uses natural features to demarcate irregular parcels of land; used along the eastern seaboard (U.S. & Can)								
, no	acros							
(160 63)	parce	NETES AND Book els of land; used along	the eastern se	ipproacn uses shoard (IIS &	naturai tea - Can)	atures to dem	iarcate irregular	
			the castern ser	Section Corner	e Carry ● Th	e Long - 1	OT SURVEY	
9	Fine						land into narroy	٧
Ω		NW NW	NE		-		ng back from riv	
	6 5	quarter	quarter				; this approach v	
	7 8			,			ebec, and French	
	18 17		6	Quarter Comer	Al	rierica (haris	of Louisiana & T	exasj.
	19 20		. •		* The ma	p on page 34!	in your text is	
		Y SW	SE				dentifying the	
	.90 29	28 quarter	quarter			land survey	patterns in the U	Inited
Township	31 32	33 1		Section Corner	States.			

Housing and Landscape

DISPERSED settlement - houses lie quite far apart; the land is intensely cultivated by machine rather than by hand. Give one example:

AMERICAN MIDWEST

- Nucleaten settlement houses are grouped together in tiny clusters (hamlets) or larger clusters (villages); this is by far the most prevalent rural residential pattern in agricultural areas.
- Early humans lived in small bands; as the communal structure became more complicated and people performed different tasks, some SOCIAL STRATIFICATION uld be seen in buildings (e.g. chief's residence was larger, or more imposing than the others; buildings for food storage and livestock shelter became necessary).



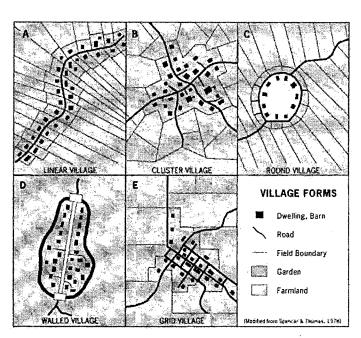
Human communities existed in widely separated areas as early as 10,000 years ago; one of the most fascinating adaptations was the invention of the IGLOO by the Inuit people in the frozen northlands using the very materials they were trying to protect themselves from.

Villages

MON MOTE Urban of the world lives in villages and rural areas. From individual dwellings to settlements: __

The smallest rural settlements are HAMLETS; often defined in terms of its Economic hamlet offers very few services (gas station, store, etc...), whereas a village (the other rural settlement form) may offer several dozen services).

At what point does a village become a town (minimum population)? United/States -(India -



- Traditionally, the majority of the people in a village are involved in PRIMARY activities, and are closely connected to the land (most of their livelihoods depend on the cultivation of nearby
- A) LINEAR houses in Japanese villages are tightly packed (need to allocate every available foot of land for farming); Western European villages built on dikes & levees (strassendorfs) to protect from flooding.

B) CLUSTER - the village may have begun as a hamlet, and developed by accretion.

C) ROUND - (rundling) European - similar to East Afr. circular village (w/ a central cattle corral).

D) WALLEY - farm villages fortified for protection

E) GLID - most modern villages are planned this way; Spanish invaders in Middle America laid out their villages in this manner centuries ago.

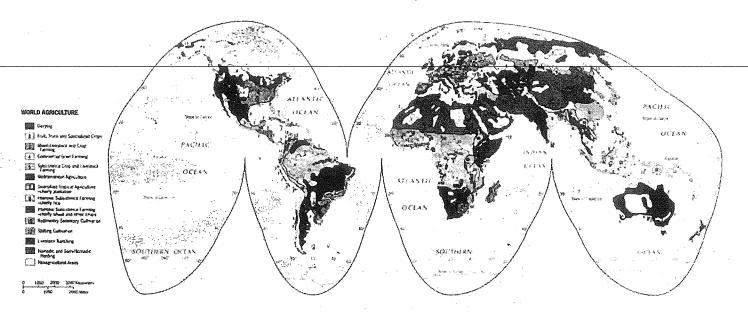
Name:	KEY	Period:	Date: <u>2012</u>
Unit 5	Commercial Agricult	ure	Rural Geography

The following information corresponds to Chapter 11 in your textbook. Fill in the blanks to complete the definition or sentence. Note: All of the following information in addition to your reading is important, not just the blanks you fill in.

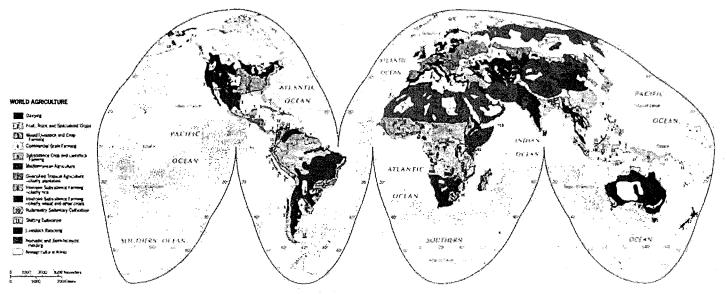
Global Patterns

- The roots of Commercial AGRICULTURE can be traced to the colonial empires established by Europe in the 18th & 19th centuries. Long-entrenched AGRICULTURAL systems and patterns are difficult to change.
- MOND CULTURE the dependence on a single agricultural commodity (major impact of imperialism).
- Non- FUBSISTEM CE farming in many poorer countries is a leftover from the colonial era. When cash crops are grown on large estates, the term PLANTATION AGRICULTURE is used.
 - are grown on large estates, the term PLANTATION AGRICULTURE is used.

 *Some examples of plantation agriculture are: SUGAR, BANANAS, COFFEE, COCOA



CROP	DESCRIPTION	LOCATION
Cash & Luxury Crops	BROUGHT BY EURO. IN 16005 TO	-CARIBBEAN
CASH SUGAR THE	COLONIES	-CORE ARENS TOO (US)
QUAR'S.	- CANE V. BEETS	
CASH MIST	- 1 DURING IND REV.	-US (SE)
COTTON (A)	-GB -> INDIA -comp. w/ SYNTHETIC FIBERS	- CHINA - CENTRAL ASIA
RUBBER AND	- 1 DURING IND, REU & 1 W/ AUTO	- SE Asia (90%) - BRAZIL
Dutha"	- AMAZON BASIN IST - COMP. W/ SYNTHETIC	- Congo Basin - Africa
Luxury 100	- Domesticated in E. AFRICAUSIS	- MIDDLE & S. AMERICA (70%
COFFEE	- ZND MOST TRADED (PETROL #1) #1 consumer - 1 IN FAIR TRADE	
LUYURY TEA	- POPULAR IN THE EAST ON TIN WOULDS	
TEA PLANTING	POPULARE IN UNITED KINGDOM	~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\



			.
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~\psi_	CROP	DESCRIPTION	LOCATION
Largest Areas Bon.	Non-tropical agriculture	- DISTANCE/TRAN. HELPED BY REFIZIG.	-NORTHERN MARGINS OF MIN- LATITUDES (NE US & NU EURO.)
	DAIRY, FRUITS	- FRUIT, TRUCK, & SPECIALIZED	SESE US
	MIXED LIVESTOCK & CROPS	- CORN, SOYBEAMS, HOGS, CHICKENS	- Humin PARTS OF MID-LATITUDES (E. US, W. EURO. & RUSSIA)
O A E MATER	COMMERCIAL GRAINS	- SPRING WHEAT IN NORTH - WINTER WHEAT IN SOUTH - EVEN LARGER BELTIN	- DRIER MID - LATITUDES (PRAI PROVINCES & CENTRAL PLAINS OF LS) -> CENTRAL ASIA (UKRAINE - KAZAKHSTAN)
	LIVESTOCK RANCHING	- WIDE DISTRIBUTION (HELPED BY TRANS. } REFRIG. STORAGE) - ON PERIPHERY (VON THUNEN)	- US CANADA MEXICO, E. BRAZIL'S ARGIENTIMA, AUSTRALIA SNZ
	(MEDITERRANEAN)	- DRY-SUMMER SPECIALIZED FARMING - GRAPES, BLIVES, CITEUS, FLGS, DATES - POP. PRODUCTS & TPRICES = EXPORTS	- SHORES OF MED. CALIFORNIA CENTRAL CHILE, SOUTH AFLICA'S CAP
	RICÉ	- SUBSISTENCE & COMMERCIAL	-SE ASIA, CHINA
	ILLEGAL DRUGS	- DEMAND IN CORE -POPPY, COCA, MARISUMMA	- IN PERIPHERY, MEXICO, COLOMBIA AFGHAMISTAN, MY ANMAR
	INTENSIVE - SUBSISTENCE RICE INTENSIVE - SUBSISTENCE WHEAT FOTHERS	Coca leaf Marijuana Tealvida Cocay Cocay	E. INDIA SE ASIA INDIA / NONTHERN CHINA
		Coca want of sa Major sixers 180	150° CONT. 150° 150° 150° 150° 150° 150° 150° 150°

Unit

5

The Changing Geography of Agriculture

Rural Geography

The following information corresponds to Chapter 11 in your textbook. Fill in the blanks to complete the definition or sentence. Note: All of the following information in addition to your reading is important, not just the blanks you fill in.

Environmental Impacts

• Commercial agriculture creates significant environmental change; affects the ENVIRONMEDETHAPS more than any other human activity (impossible to measure).



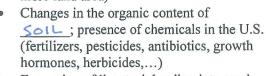
o hicasic).

• OVER-FISHING - leading to the decline of fish stocks (250,000 bluefin tuna in 1975;

left today) ENDANGERED

 Clearing of forests for LivesTock grazing in Central & South America (more land needed for feed grains as well – major cause of world hunger)

of hillsides in S.E. Asia (prevents soil from washing downhill, more land area)



• Expansion of livestock herding into semiarid regions in Sub-Saharan Africa (can lead to DESERTIFICATION)





Agribusiness

• **Def'n:** large-scale, mechanized industrial agriculture; act as corporations.

• Commodity or food chains are usually composed of the following levels/steps:

GROW

TEXTILE

MAKING

DEIGN + MARKETING DISTRIBUTION ?

The poultry, turkey, pork,... industries have transformed from single farmers to LARGE integrated companies. Today, poultry companies operate LATCHERIES, FEED mills, and ROCESSING plants; they supply CHICKS and feed to the farmers, or to the large CORPORATIONS

• Selective breeding has produced faster growing & bigger CHICKENS housed in enormous factories.

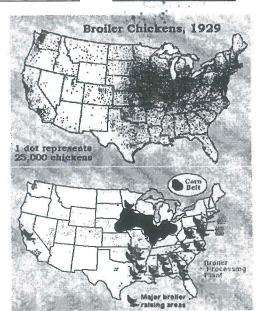
• BROILER HOUSES - located around AK, GA, the Piedmont areas of NC, and the Shenandoah Valley of VA.

• "Farmers" are involved in <u>PRODUCTION</u> much more than they are in primary activities (e.g., process the chickens via conveyor belts, work with bank officers & vendors).

• Americans eat 50 times more chicken today than in the 1930s.

Economies of SCALE; "farmers" BROWN- RAISE chickens, buy in BULK, buy modern EQUIPMENT (computerized feeders, ventilation & waste systems – replaces MANUAL labor).

involved in the HATCHING of eggs, supplying CHICKS to the broiler raisers, providing VETENARIAN care, transporting broilers (take 7-8 weeks to grow), PROCESSING, MARKETING, & nationwide DISTRIBUTION.

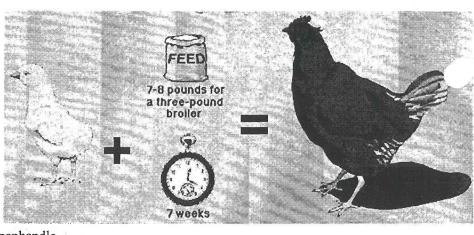


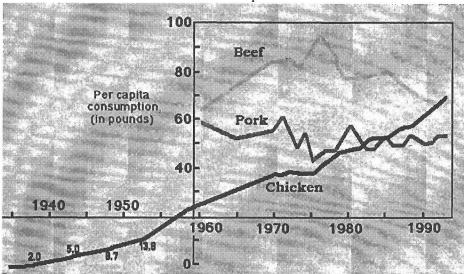


Better and southeastern U.S. has a lower cost of living (lower WAGES), warm weather for CHCKENS; Midwest is good for CORN growing; close proximity = good ~

(low costs, fast TRANSPORTATION from the Midwest to the South & chicken from the South to the big markets).

HoG production is done in much the same way; with the rapid increases in Oklahoma and the Texas panhandle.





OLLECTIVE agriculture (e.g. China) – consists of collective farms (results in the significant displacement of rural people) have mixed results; farming

21VATIZATION is currently under way in China.

Another trend is **ORGANIC** AGRICULTURE -without synthetic or industrially produced pesticides and fertilizers;

> > \$ 4 billion/yr sales in U.S.; crops = coffee, tea, cocoa, nuts, oils, spices, as well as certain fruits and vegetables.

Yew farmers in distant lands have real control over land-use decisions, for the states in the global economic CoREcontinue to decide what will be bought at what price.

Loss of Productive Farmland
Some of the most fertile, productive farmlands are lost to Housing and Retail developments; many CITIES are absorbing the productive farmlands as they expand.

As URBAN populations continue to grow and expendable INCOME increases for the wealthiest, more agricultural lands will be converted to housing developments. (WEALTH)

