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**National Council for
Geographic Education**

Three for Three

Week 19, Unit 5

January 20, 2020

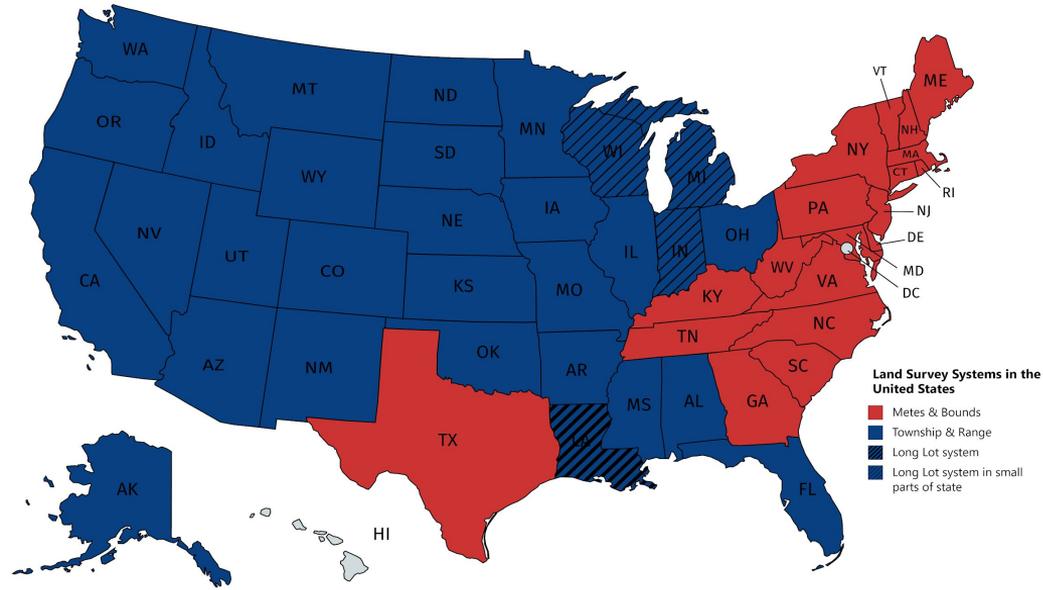
A SUPPLEMENT TO THE WEEKLY APHG BELL RINGERS SERIES

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Introduction to Agriculture Topic 5.1



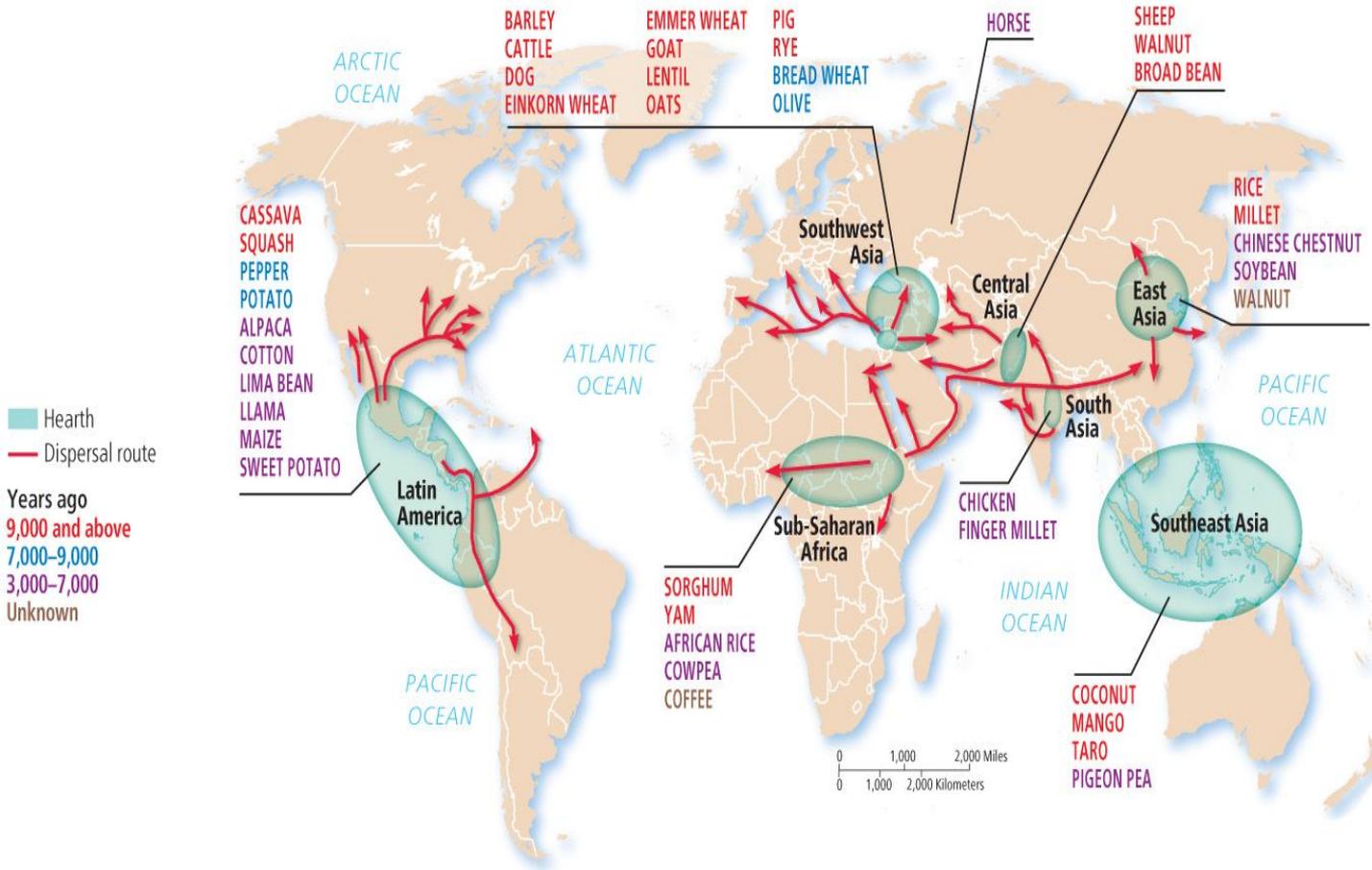
Settlement Patterns & Survey Methods Topic 5.2



1. What do you notice about the spatial pattern of states that use the metes & bounds system vs. those that use the township & range system?
2. Using what you know about which areas were controlled by which colonial powers, in which country do you think the long lot system originated?
3. Which photo represents which survey method?



Agricultural Origins & Diffusions Topic 5.3



1. In approximately what year was the agricultural revolution?
2. Does the map indicate that the first agricultural revolution happened in one place or more than once place at approximately the same time?
3. Which hearth has crops that are most familiar to you? least? Why do you think that is?
4. Find your favorite food or the one you most frequently eat & identify its hearth & time of cultivation/domestication.

IDEAS FOR SLIDES

SLIDE 1 Use this slide to discuss climate types. Students will match the image to the climate type.
ANSWERS: 1. cold 2. dry 3. warm 4. highland 5. polar 6. tropical.

SLIDE 2 source: created by Laura Kmetz on Mapchart.net using info from Nationalmap.gov and http://geo.msu.edu/extras/geogmich/long_lots.html
Use this slide to introduce or review land survey methods. Before showing students the slide, you may wish to ask them what they have noticed while flying over the eastern US vs. western US.

ANSWERS:

1. Students should notice a general spatial grouping of the metes & bounds states in the east and township & range in the west. If students don't mention it, ask what history may have to do with the pattern. The t&r survey system was established by the Land Ordinance of 1785 after land was ceded to the newly independent United States.
2. The long lot system originated in France and can be seen in Louisiana and parts of Indiana, Wisconsin, & Michigan, along with Quebec.
3. The left picture is metes & bounds (Virginia); the middle pic is long lot (Louisiana); & the picture on the right is township & range (Utah; note the straight roads that cross at right angles, & compare those to the pic on the left) There is an Instagram account dedicated to the township & range system (the.jefferson.grid). Daily Overview--on Instagram, Twitter, & Facebook--has great photos that show land use.

SLIDE 3 This map is in several editions of the Rubenstein textbook.
ANSWERS:

1. 7,000 BCE according to info in the map (about 10,000 years ago is the widely accepted estimate)
2. in several places at the same time (discuss why)
3. & 4. answers will vary



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