

Question 2

PER CAPITA PRODUCTION OF STAPLE FOOD CROPS IN HEARTH-OF-DOMESTICATION COUNTRIES

Country	Corn (maize) (pounds per capita)	Potato (pounds per capita)	Rice (pounds per capita)	Yam (pounds per capita)	Cassava (manioc or yuca) (pounds per capita)
	Hearth: Mexico	Hearth: Peru	Hearths: China and Mali	Hearth: Niger River basin	Hearth: Amazon River basin
Brazil	1,056	39	108	3	183
China	412	145	333	0	52
Mexico	471	31	4	0	0
Nigeria	121	15	93	549	618
Peru	107	362	216	0	13

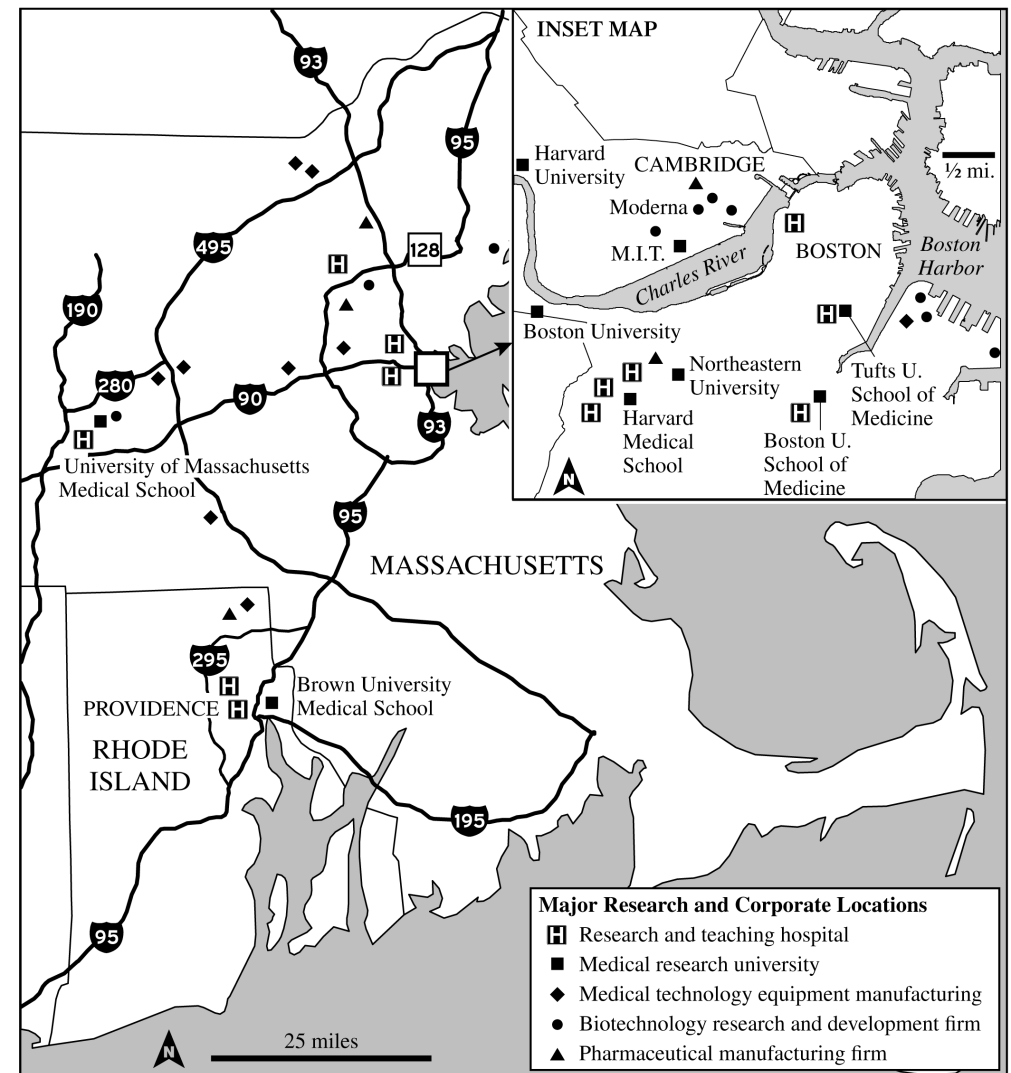
Source: Food and Agriculture Organization of the United Nations

2. Staple food crops provide most of the carbohydrates in people's diets, and some staples are also used as animal feed or in the distillation of ethanol. Cassava is a root crop (tuber) that is the source of farinha, tapioca, and the pearls in bubble tea.
- Describe the concept of an early hearth of domestication.
 - Identify the crop listed in the table that has diffused the least from its hearth of domestication to the countries listed in the table.
 - Explain how food preferences can be a culture trait.
 - Explain how the Columbian Exchange contributed to a crop's diffusion beyond its hearth of domestication.
 - Explain how the data in the table support the concept of a crop's consumption pattern being the result of globalization.
 - Explain why a crop may be farmed intensively in a less developed country and be farmed extensively in a more developed country.
 - Explain ONE way the global supply chain links crops such as those listed in the table to consumers in other countries.

Begin your response to this question at the top of a new page in the separate Free Response booklet and fill in the appropriate circle at the top of each page to indicate the question number.

Question 3

MAJOR MEDICAL AND BIOTECHNOLOGY COMPANIES AND INSTITUTIONS IN THE BOSTON AND PROVIDENCE REGION



Source: National Institutes of Health

The inset map shows the downtown areas of Boston and Cambridge, Massachusetts.