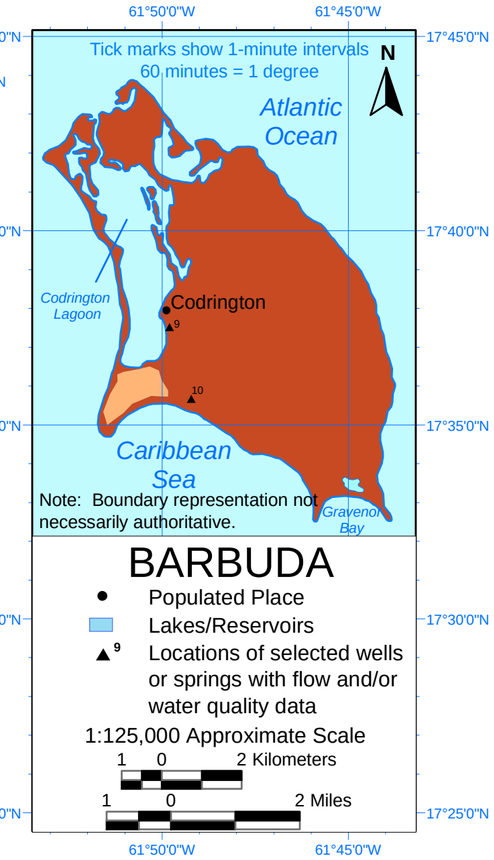


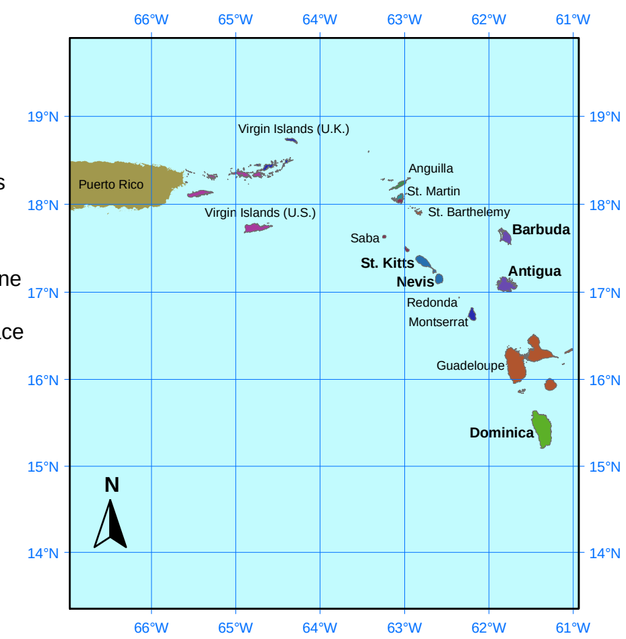
GROUND WATER RESOURCES

Map Unit	FRESH WATER SCARCE OR LACKING
1	Very small quantities of fresh water are available from generally Tertiary to Quaternary age limestone as well as Recent age beach sand. Small quantities of fresh water are available from locally fractured rock units. In Antigua, depth to aquifer ranges from greater than 1 meter to 20 meters near coastal areas and to 40 meters inland. In Barbuda, depth to aquifer ranges from 7 to less then 10 meters. In St. Kitts, depth to aquifer ranges from less than 1 meter to 60 meters.
2	Meager to small quantities of fresh water are available from Oligocene to Recent age mixed volcanic rocks with minor amounts of Recent age alluvium. In Dominica, depth to aquifer is from the ground surface to less than 200 meters deep. In Antigua, depth to aquifer ranges from greater than 1 meter to 20 meters near coastal areas and 20 to 50 meters in small hills inland. In St. Kitts and Nevis, depth to aquifer ranges from 2 to 70 meters.
3	Meager quantities of fresh water are available from Pliocene to Pleistocene age clay and tuff. Depth to aquifer ranges from less than 1 meter to 20 meters near coastal areas to 40 meters inland. Water may be brackish to saline near coastal areas.
4	Very small to very large quantities of brackish to saline water are available from Oligocene to Pleistocene mixed volcanic, limestone, and sedimentary aquifers. In Dominica, depth to aquifer is less than 1 meter along coastal areas. In Antigua and Barbuda, depth to aquifer is from the ground surface to less than 20 meters deep. In St. Kitts and Nevis, depth to aquifer is from the ground surface to less then 20 meters deep.

Note: Map unit numbers refer to entries in table C-2.

QUANTITATIVE TERMS:

Enormous	= >100 liter per second (L/s) (1,600 gallons per minute (gal/min))
Very large	= >50 to 100 L/s (800 to 1,600 gal/min)
Large	= >25 to 50 L/s (400 to 800 gal/min)
Moderate	= >10 to 25 L/s (160 to 400 gal/min)
Small	= >4 to 10 L/s (64 to 160 gal/min)
Very small	= >1 to 4 L/s (16 to 64 gal/min)
Meager	= >0.25 to 1 L/s (4 to 16 gal/min)
Unsuitable	= ≤0.25 L/s (4 gal/min)



CONVERSION CHART:

To Convert	Multiply By	To Obtain
liters per second	15.84	gallons per minute
liters per second	60	liters per minute
liters per second	950	gallons per hour
gallons per minute	0.063	liters per second
gallons per minute	3.78	liters per minute

QUALITATIVE TERMS:

Fresh water	= maximum total dissolved solids (TDS) ≤1,000 milligrams per liter (mg/L); maximum chlorides ≤600 mg/L; and maximum sulfates ≤300 mg/L
Brackish water	= maximum TDS >1,000 mg/L but ≤15,000 mg/L
Saline water	= TDS >15,000 mg/L

Note: Features have been obtained from various sources of differing scales. Alignment and geospatial accuracy are approximate.

Figure C-2. Ground Water Resources