

Name _____ Section _____

EXERCISE 44 PROBLEMS—PART I

The following questions are based on **Map T-8**, the "Putnam Hall, Florida," quadrangle (scale 1:24,000; contour interval 10 feet). This map shows a portion of northeastern Florida underlain by limestone ($29^{\circ}39'10''\text{N}$, $81^{\circ}57'15''\text{W}$). Aerial imagery of this same area is shown in **Figure 44-3**. Here the water table (the upper level of groundwater) is close to the surface.

- Describe the overall topography of this region.
- What is the approximate depth (from top to bottom) of the sinkhole containing a lake to the southwest of the Melrose Landing Airstrip? _____ feet
- The elevation of the surface of a lake is a good indication of the level of the water table at that location. Assuming that the elevation of a lake is half a contour interval lower than the contour line closest to the shore, determine the elevations of the following lakes.

(a)	Slipper Lake	_____ feet
(b)	Lake Green Sills	_____ feet
(c)	Whirlwind Lake	_____ feet
(d)	Trotting Pond	_____ feet
(e)	Lake Lucy	_____ feet
(f)	Trout Lake	_____ feet
- Based on the lake levels in problem 3, and noting the levels of other lakes and swamps, does it appear that the water table in this region is level or sloping? If sloping, in which direction?
- Why isn't a lake found in the bottom of the sinkhole 0.4 mile (0.6 km) south of the eastern Whirlwind Lake?
- Comparing Map T-8 (1993) and Figure 44-3 (2015), what generally happened to lake levels in this area between 1993 and 2015?

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Sebastian Brünink



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