

## Testudines

**DENSITY** - What typical population density could you expect for the species in a hectare of ideal habitat?

Species	Common Name	Density
<b>Cheloniidae</b>		
<b>sea turtles</b>		
<i>Caretta c. caretta</i>	Atlantic loggerhead	in New England waters, 2,200-11,000 <i>Caretta</i> may be present each summer at a density of about 21.6 turtles/1,000 km of shoreline (Shoop and Kenney 1992)
<i>Chelonia m. mydas</i>	Atlantic green turtle	Unk
<i>Eretmochelys i. imbricata</i>	Atlantic hawksbill	Unk
<i>Lepidochelys kempii</i>	Kemp's ridley or Atlantic ridley	Unk
<b>Dermochelyidae</b>		
<b>leatherback sea turtles</b>		
<i>Dermochelys c. coriacea</i>	Atlantic leatherback	two areas of relatively high summer abundance occur in the northeastern United States, south of Long Island and in the central and eastern Gulf of Maine, with a mean density of 6.9 and a range of 1.7-60 leatherbacks per 1,000 km (Shoop and Kenney 1992)
<b>Chelydridae</b>		
<b>snapping turtles</b>		
<i>Chelydra s. serpentina</i>	eastern snapping turtle	on two 0.4-ha ponds in western West Virginia, the density of snapping turtles was estimated at 60.5 turtles/ha (Major 1975)
<b>Emydidae</b>		
<b>pond turtles</b>		
<i>Chrysemys p. picta</i>	eastern painted turtle	~ 590 / ha (Tinkle et al. 1981)
<i>Chrysemys p. marginata</i>	midland painted turtle	~ 590 / ha (Tinkle et al. 1981)
<i>Clemmys guttata</i>	spotted turtle	density at a 3.2-ha marsh in Pennsylvania ranged from 39.5 to 79.1 turtles per hectare (Iverson 1982)
<i>Clemmys insculpta</i>	wood turtle	density estimates in New Jersey are 9.9-11.4 turtles per hectare (Farrell and Graham 1991); estimated density of about 12.5 adults per hectare in a New Jersey study (Harding and Bloomer 1979)

<i>Clemmys muhlenbergii</i>	bog turtle	in Maryland...population densities varied from 7 to 213 turtles per hectare of wetland habitat (Ernst et al. 1994); estimates of population density in Pennsylvania range from 125 to 140 turtles per hectare (Chase et al. 1989); under undisturbed conditions, bog turtle habitat in New Jersey will support about 49-62 turtles per hectare (Holub and Bloomer 1977)
<i>Deirochelys r. reticularia</i>	eastern chicken turtle	Between 7.2/ha (Congdon et al. 1986) and 40.1/ha (Iverson 1982) in S.C. Carolina Bay
<i>Emydoidea blandingii</i>	Blanding's turtle	5.9-55/ha (Ernst et al. 1994, Joyal et al. 2000)
<i>Graptemys geographica</i>	northern map turtle	27 turtles/km shoreline in one PA river (Pluto and Bellis 1986)
<i>Graptemys ouachitensis</i>	Ouachita map turtle	One LA river had densities of 2.1-6.7 turtles/1000 sq. m (Shively and Jackson 1985)
<i>Malaclemys terrapin terrapin</i>	northern diamond-backed terrapin	At 2 sites in FL, density was between 53 to 72/ha (Seigel 1984)
<i>Pseudemys c. concinna</i>	eastern river cooter	An 11.2 km section of New River, WV est. to have 67 individuals in 1985 (Buhlmann and Vaughan 1991)
<i>Pseudemys c. floridana</i>	coastal plain cooter	7/ha at a SC site (Gibbons and Coker 1977)
<i>Pseudemys rubriventris</i>	northern red-bellied cooter	200 constitute the pop. In several New England pools, but many juv., so more recruitment possible (Graham 1969)
<i>Terrapene c. carolina</i>	eastern box turtle	estimated 17-22/ha in Knoxville, Tennessee, 9.9-12.4/ha in Laurel, MD (Ernst et al. 1994)
<i>Trachemys s. scripta</i>	yellow-bellied slider	estimated in US at 88-353/ha (Ernst et al. 1994)
<i>Trachemys s. elegans</i>	red-eared slider	estimated in US at 88-353/ha (Ernst et al. 1994)
<i>Trachemys s. troosti</i>	cumberland slider	estimated in US at 88-353/ha (Ernst et al. 1994)
<b>Kinosternidae</b>	<b>mud and musk turtles</b>	
<i>Kinosternon s. subrubrum</i>	eastern mud turtle	estimated a density of 22-56/ha...for a 10-year span in the approximately 10-ha basin of Ellenton Bay, South Carolina (Gibbons 1983)
<i>Kinosternon baurii</i>	striped mud turtle	Unk
<i>Sternotherus minor peltifer</i>	stripeneck musk turtle	estimated population density in one Florida spring to be 2,857/ha (Iverson 1982)
<i>Sternotherus odoratus</i>	stinkpot or common musk turtle	estimated density in a Virginia lake of 194/ha (Mitchell 1988); density of a small population from Pennsylvania only 24/ha (Ernst 1986a)

<b>Trionychidae</b>	<b>softshell turtles</b>	
<i>Apalone m. mutica</i>	midland smooth softshell	Unk
<i>Apalone s. spinifera</i>	eastern spiny softshell	Unk

**Density Codes:** State as < 10, 11-50, 51-100, 101-1000, or > 1000 individuals, Unk = unknown