

# Raising soft-shell turtles under solar panels

How do soft shell turtles grow?

Consequently, most soft-shelled turtle farmers employ closed greenhouse system for overwintering and for an early start-up. In the greenhouse, air and water temperature are controlled constant around 32 and 30 °C, respectively, which are optimal for the turtle's growth (Li et al. 2009).

Can a greenhouse system be used for juvenile soft-shelled turtle culture?

Despite that the greenhouse system has been widely used for juvenile soft-shelled turtle culture in Anhui Province, its rearing performance, economic viability, and energy efficiency are rarely evaluated and reported.

What factors are considered for a soft-shelled turtle greenhouse?

Several factors were considered for soft-shelled turtle greenhouse: suitability for its behavior, physiological and ecological requirements of the juveniles, heat retaining capacity or insulation capability, convenience in operation, and effects on the external environment and construction cost.

Why is soft shelled turtle a popular food in China?

Chinese soft-shelled turtle (*Pelodiscus sinensis*) is a favorite food for the Asian because of its high nutritional and medicinal value. Based on an estimate production of 350,000 MT in 2015, soft-shelled turtle culture industry in China values US\$5.22 billion. In central China, overwinter in greenhouse is necessary for the juvenile turtle.

How much does soft shell turtle culture cost in China?

Based on an estimate production of 350,000 MT in 2015, soft-shelled turtle culture industry in China values US\$5.22 billion. In central China, overwinter in greenhouse is necessary for the juvenile turtle. The use of coal boiler to heat up the water to 30 °C is a common practice, however, brings in air pollution and CO<sub>2</sub> emission too.

Why is water level important to soft shelled turtles?

Manipulation of water level is essential to soft-shelled turtle for the following reasons. Soft-shelled turtle mainly use pharyngeal and lung for respiration so that they have to come to the surface and stick their head out once for a while to breathe the air for 3-4 min.

Without enough calcium, the shell of a turtle can become soft. So the problem is either the lack of calcium or the lack of UVB light, which allows turtles to process the calcium. Luckily both problems are quite easy to solve. So let's see how ...

Leith's Softshell Turtle, *Nilssonina leithii* (Family Trionychidae), is a large turtle, known to attain at least 720 mm in carapace length (bony disk plus fibrocartilage flap), and possibly as ...

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Continuous wetness can lead to respiratory diseases and make softshell turtles' shells susceptible to bacterial growth, causing shell rot. Basking under a UV lamp helps softshell turtles absorb vitamin D3 and ...

Soft shell turtles including species like the smooth softshell turtle, spiny softshell turtles and the eastern spiny softshell are more aquatic than most turtles kept as pets. Unlike cooters, red-eared sliders, and map turtles, ...

Raising a baby softshell turtle can be an exciting and rewarding experience. These unique creatures require specific care and attention to ensure their well-being and growth. From setting up the perfect habitat to providing the right ...

Coming in at a price point of around \$3000, this is a pop-up tent that features an easy set up with the solar panel already attached to the exterior shell. The 30" panel charges the interior ...

This is one of the basic questions we, turtles lovers, should care about, but we don't. We only focus on raising the pet and do not even think about the species' conservation status. Take the softshell turtles, for instance. Most ...

Softshell turtles do not like noise. If you are raising your pet in a room where people often come and go, this can stress the turtle. When the pet feels stressed or panicked, it will not come out of the water. ... For example, a ...

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