Grain

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Abstract

In this paper, I describe grain. The paper ends with "The End"

Introduction

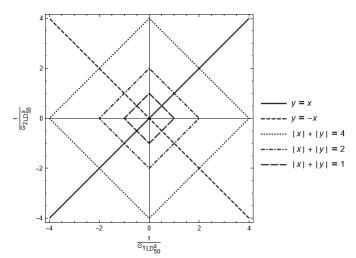
In a previous paper, I've described poison, vitamin and food using the concepts of ${}^SLD^s_{50}$, species diagram and substance diagram. The knowledge of grain is **crucial** to every economy. In this paper, I describe grain using the same concepts.

Grain

A grain is any substance that when **consumed** in positive quantities **doesn't** harm **nor** causes death of an individual.

Species diagram of grain

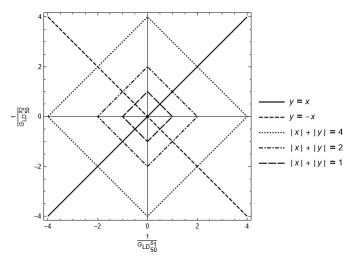
For a **fixed** species s and two grains G_1 and G_2 , the **species diagram of grain** is a two-dimensional Cartesian co-ordinate plane where the X-axis represents $\frac{1}{G_1LD_{50}^s}$ and the Y-axis represents $\frac{1}{G_2LD_{50}^s}$.



A species diagram of grain showing the two isoclines and some square level curves.

Substance diagram of grain

For a fixed grain G and two species s_1 and s_2 , the **substance diagram of grain** is a two-dimensional Cartesian co-ordinate plane where the X-axis represents $\frac{1}{GLD_{s0}^{s_1}}$ and the Y-axis represents $\frac{1}{GLD_{s0}^{s_2}}$.



A substance diagram of grain showing the two isoclines and some square level curves.

Square level curves

A square level curve with level c in a species/substance diagram of grain is the curve |x| + |y| = c.

The two isoclines

The two isoclines in any species/substance diagram are the lines y = x and y = -x, with the former called the **standard isocline** and the latter called the **special isocline**.

The truth of each species

For each species s, there exists at least one grain G(s) that can be consumed by s. In simpler words, for each species there exists at least one grain.

The truth of each grain

For each grain G, there exists at least one species s(G) that consumes G. In simpler words, each grain can be consumed by at least one species.

The End