Module 33: Sustainable food production

Mod 33: Sustainable agriculture (fishing too)

- **Desertification** (see above)
- **intercropping** vs. monocropping, see "the three sisters"
- **Contour cropping:** saves space, reduces runoff, preserves top soil (e.g. our garden, most of Asia)
- **No-till ag:** same idea, retains organic material in topsoil, reduces erosion by wind and water
- **IPM**: integrated pest management (see Lalamilo Farmers)
- **Organic agriculture** (also mentioned in Portlandia and Colin the Chicken)More than just N-P-K, also micronutrients, slower release time, low salinity
- **CAFO**: concentrated animal feed operation (e.g. chickens, pigs, cattle)Usually inorganic feed (purines), hormones and other drugs
- **Methyl xanthines:** caffeine, theobromine, theophyllineevolved plant poisons for insects:



- **Xanthine**: group name
- **Caffeine**: energy drinks, coffee, soft drinks (to offset drowsiness from insulin spike)
- **Theobromine**: chocolate
- **Theophylline**: tea (also a bronchodilator-helps breathing)

Actually, almost anything that ends in -ine is usually a plant poison evolved to kill insects:

- nicot**ine**: tobacco
- caffe**ine**: coffee, tea
- coca**ine**: coca plants

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