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2.1.5. Half-life and Biomagnification

DDT stands for dichloro, diphenyl trichloroethane. It is a chlorinated hydrocarbon, a class of chemicals which are great examples of biomagnification. DDT has a half-life of 15 years. Therefore if you start with 100 kg of DDT, it will break down as follows:

Year	Amount Remaining
0	100 kg
15	50 kg
30	25 kg
45	12.5 kg
60	6.25 kg
75	3.13 kg
90	-1.56 kg
105	0.78 kg
120	0.39 kg

This means that after 100 years, there will still be over a pound of DDT in the environment. Because it is fat soluble, much of the DDT will remain in the bodies of organisms.

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