

# **Toxicity tests in outdoor windrows.**

Initial crude oil concentration 18,000 mg/kg.

Percent versus time.

<u>Tests</u>	<u>Organism</u>	<u>Time (days)</u>			
		<u>0</u>	<u>90</u>	<u>270</u>	<u>480</u>
<b>Inhibition of seed germination</b>	barley	100	60	10	0
	wheat	100	62	4	0
	pea	100	100	0	0
	corn	100	80	25	3
	lettuce	100	100	30	10
<b>Inhibition of plant growth</b>	barley				8
	wheat				21
	pea				4
	corn				0
<b>Mortality</b>	worms	100	90	10	0

From C. H. Chaineau, et al., (a French national laboratory)  
Water, Air, and Soil Pollution 144, 419-440 (2003).

## Petroleum hydrocarbons in soil

Lee, et al. studies of toxicity of  
bioremediated drilling fluids  
including mineral oil, isomerized  
paraffin, and diesel.