

Dust storm – Danakil Depression - Ethiopia

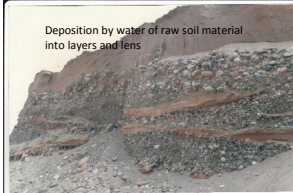
Photo No. 1



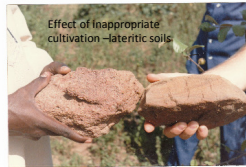
A dust storm in the Lower Awash Valley, Ethiopia, May 1991

Photo No. 2

Deposition by water of raw soil material into layers and lens



Effect of inappropriate cultivation – lateritic soils



Massey Ferguson T 20 Tractor 15 Kilowatt, safe load 3 tons. Can work a 2 furrow plough.



Dust Storm – Leuchars- Fife – Light sandy soils

Photo No. 2

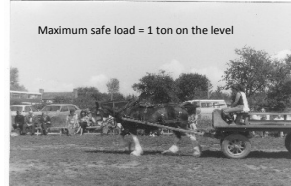


dust storm in Leuchars Parish, Fife, Scotland, April 1954

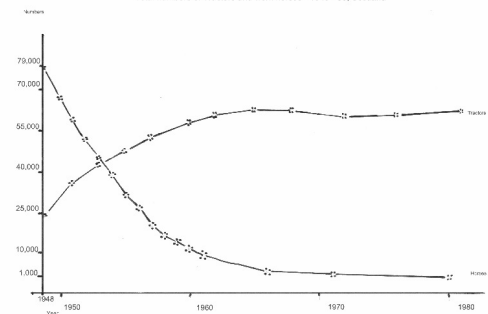
1 HP = 0.746 kilowatts



Maximum safe load = 1 ton on the level



Direct swap 1 heavy work horse for, initially, 1 tractor of 20 HP
Total numbers of Tractors and work horses - 1948 - 80, Scotland



High Horse-power tractor with large "foot-print" 120 Kilowatts capable of pulling 30 tons load or a 6 furrow reversible plough



Simple on-farm bio-digester. Sewage or animal by-product processing needs extra facilities for sterilization.



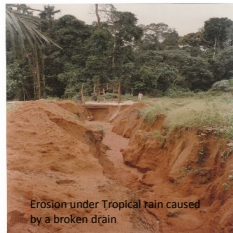
Sound but simple concrete weir and hydro offtake (thanks to Ewan Pate - Courier newspaper)



Erosion under UK Rain caused by ploughing down the slope



Erosion under Tropical rain caused by a broken drain



Small earthen dam with clay core - built with bulldozer. Spillway and pump house allows for small hydro offtake

