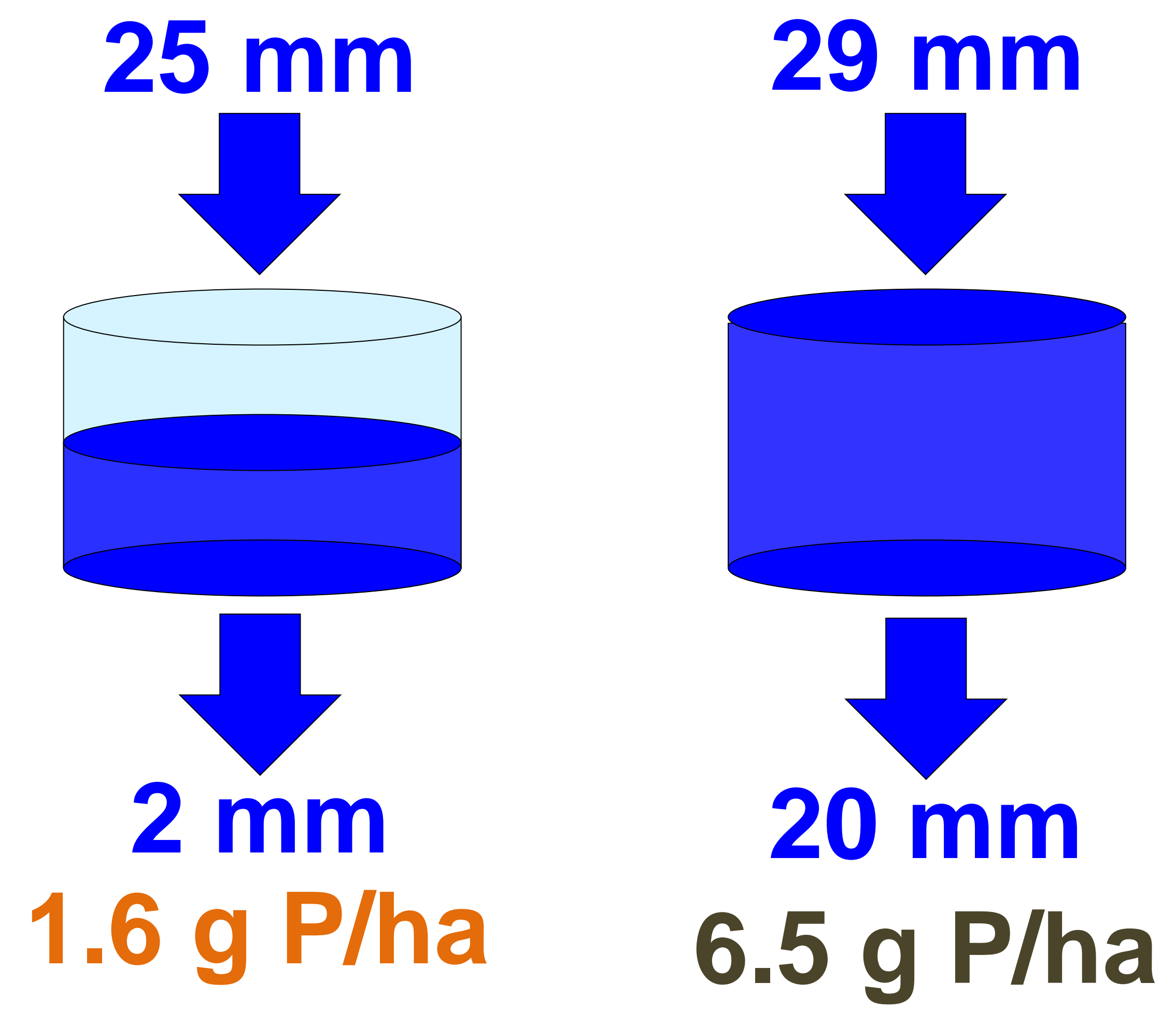


## Soil Moisture Deficit (SMD) and Phosphorus Loss

	Summer Storm	Winter Rain
Soil Moisture Deficit (SMD)	31 mm	0 mm
Rainfall in Single Event	25 mm	29 mm
Resulting ↑ Stream Flow	2 mm	20 mm
Resulting Phosphorus Loss	1.6 g/ha	6.5 g/ha

- Conditions resulting from weather patterns (eg. SMD) significantly influence nutrient transport and loss.
- Four times higher P loss in the winter event.



## The 2018 Drought and Nitrogen Loss

### Nitrogen concentrations peaked in Autumn 2018 when the summer drought ended

eg. In Ballycanew catchment, Co Wexford. A mainly grassland catchment on poorly drained soils.

- In a 19 day period 6.8 kg N/Ha left the catchment.
  - (51% of average annual total)
- In a 73 day period 19.6 kg N/Ha left the catchment.
  - (147% of average annual total)

