

WHAT IS.....

Umostart

Micro-Granular Starter fertiliser

**A FINELY GRADED
MICROGRANULAR FERTLISER
APPLIED WITH SEED**

Umostart Super ZN

▣ Analysis

- ▣ Nitrogen N (Ammonium Nitrogen) 11%
- ▣ Soluble P₂O₅ in Neutral ammonium
- ▣ citrate and water 50%
- ▣ Water soluble Phosphate P₂O₅ 48%

- ▣ Total Zinc (ZN) 1%
 - + Humates *

UMOSTART COMPARED WITH TRADITIONAL FERTILISER



5g of Umostart 11:50:0+1Zn
ab. **25.000** microgranules



5g of 18.46: ab. 200 granules

SMALLER GRANULES CLOSE TO SEED = MORE AVAILABLE PHOSPHATE

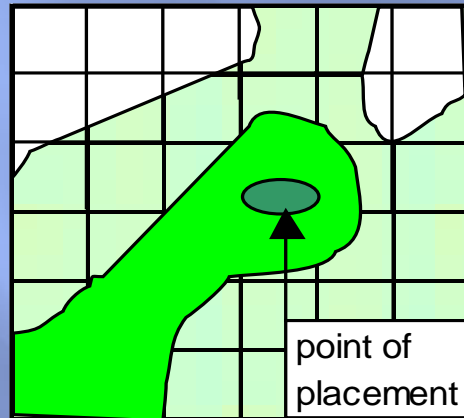
COMPARISON UMOSTART V. DAP 18:46

	Kg/ha	Granules/kg	Granules/ha	Granules/dm³ soil close to the seed
UMOSTART	40	4 million	160 millions	2,000
DAP 18.46 (broadcast)	200	40	8 millions	8

Fertiliser movement in soil

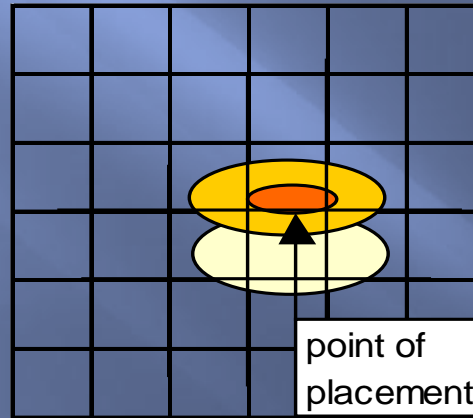
**N, P₂O₅, K₂O:
SOIL MOBILITY
18 DAYS AFTER APPLICATION**

**NITROGEN MOVEMENT
IN SURFACE SOIL PROFILE**



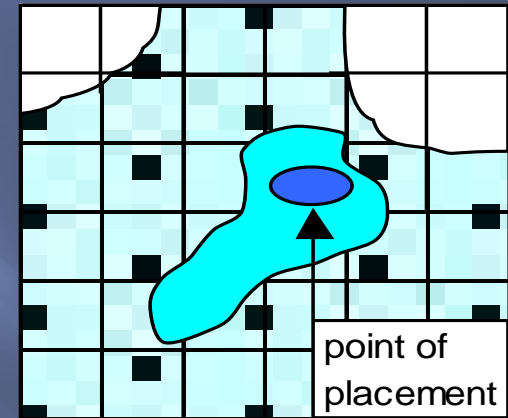
**NITROGEN LOCATION 18
DAYS AFTER
APPLICATION**

**PHOSPHORUS MOVEMENT
IN SURFACE SOIL PROFILE**



**PHOSPHORUS LOCATION
18 DAYS AFTER
APPLICATION**

**POTASSIUM MOVEMENT
IN SURFACE SOIL PROFILE**



**POTASSIUM LOCATION 18
DAYS AFTER APPLICATION**

■ NO
CONCENTRATION

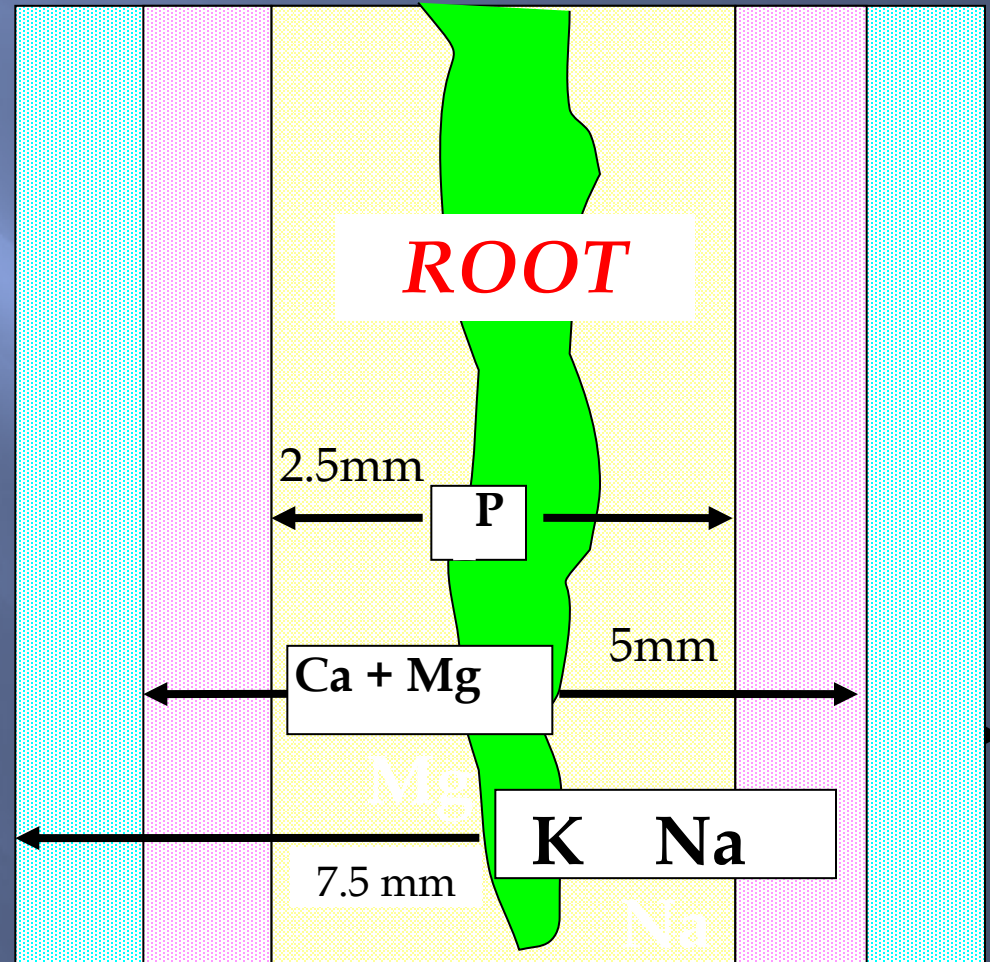
■ MEDIUM
CONCENTRATION

■ HIGH
CONCENTRATION

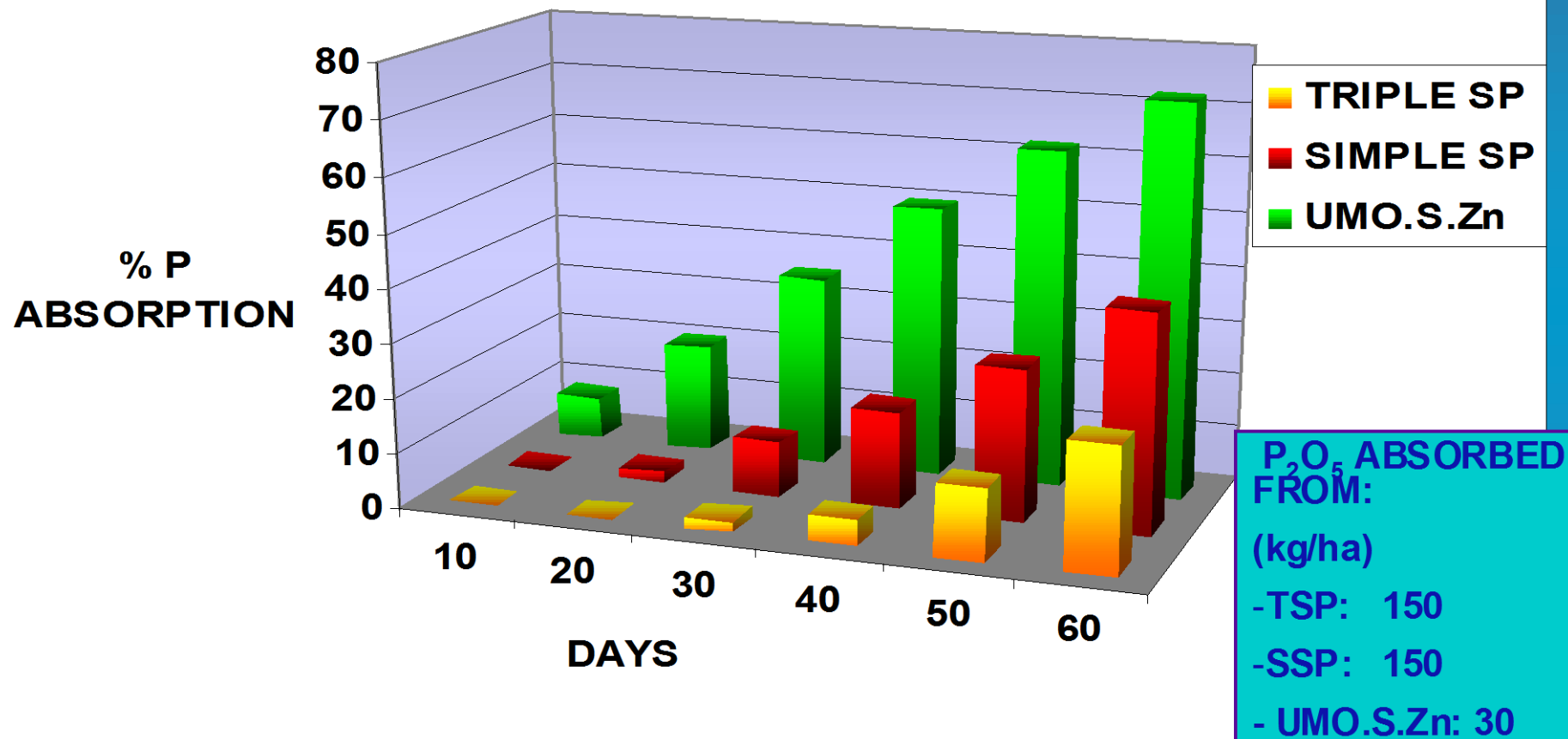
PHOSPEROUS VERY LITTLE MOVEMENT

DIAGRAM CAPILLARY ROOT

MAXIMUM DISTANCE
CAPILLARY ROOT CAN
PICK UP NUTRIENTS



P UMOSTART EFFICIENCY IN THE SOIL COMPARED WITH TRADITIONAL FERTILIZERS



Source: DAGA University 2002

SUMMARY OF BENEFITS

- ▣ QUALITY MICROFERTILISER PLACED WITH SEED MEANS **BETTER & QUICKER** ROOT DEVELOPMENT
- ▣ MORE **RELIABLE ESTABLISHMENT** ESPECIALLY IN DIFFICULT SEASON
- ▣ CAN BE USED IN **ALL SOWING REGIMES** EXCEPT AUTOCAST & BROADCAST
- ▣ LOW APPLICATION RATES FROM 10KG/HA = LOGISTICAL SAVINGS