

## Looking at the Data (N Surplus)?

N Surplus is the sum of the of individual crop surpluses (N inputs – N yields) per harvested area.

## DATA BASIS

Data on fertilizer application for individual crops come from IFA. Production volume and harvest areas are based on data from FAO of the United Nations (UN). Nitrogen uptake was calculated from crop-specific production volumes and nitrogen concentrations.



## Looking at the Data (P Surplus)?

Similar concern can be given to Phosphorus Surplus, the sum of the of individual crop surpluses (P inputs – P output) per harvested area. Inputs include applied fertilizer and manure while output is the amount of P in harvested crops

## DATA BASIS

P surplus is reported by Zou et al., 2020\*. Harvested area is reported by FAOSTAT.













