



# A Solution for Sustainable Agriculture

## NPK Compound Fertilizers Chemical Economic Handbook

**NPK** Compound Fertilizers are a combination of the three main nutrients used by the fertilizer industry.



**Nitrogen (N)**  
**Phosphorus (P)**  
**Potassium (K)**

### ADVANTAGE



NPK fertilizers offer balanced fertilization with the required type and quality of the essential nutrients selected for a particular crop.

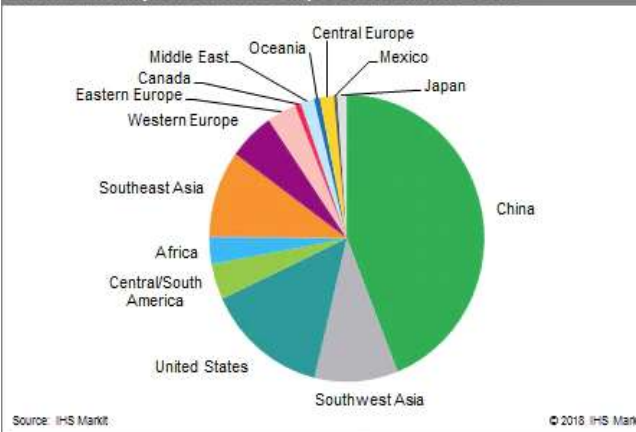
produced to meet local and regional demand



NPK Total **Global** Production Capacity  
**70%** china

**2018** largest consumer of NPK **China**  
**44%** total global consumption

World consumption of NPK compound fertilizers—2018



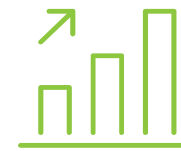
Source: IHS Markit

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### Gain knowledge in identifying trends and driving forces influencing the NPK Fertilizer market to forecast and plan for future demand

- Supply—producers, plant locations, annual capacities, capacity utilization, and production volumes
- Demand—market size, end-use applications, consumption trends, and competing materials
- Manufacturing processes—commercial processes and basic chemistry
- Trade—import/export data, countries of origin and destination, and shipment values
- Price—histories, unit sales volumes, and factors affecting prices

<https://ihsmarkit.com/products/npk-compound-fertilizers-chemical-economics-handbook.html>



Expected highest consumption growth



Africa, China and Southwest Asia

Total trade in all **NPK Compound Fertilizers**



**19%** of global production



### Compound Fertilizers

**NPK** have a minimum of **3% N** plus **5% P2O5** plus **5% K2O** and at least **20%** total nutrients.

**NP** have a minimum of **3% N** plus **5% P2O5** and at least **18%** of total nutrients.

**NK** have a minimum of **3% N** plus **5% K2O** and at least **18%** of total nutrients.

**PK** have a minimum of **5%** of both **P2O5** and **K2O** components and at least **18%** nutrients.