KELP MEAL

Neptune's Harvest *Ascophyllum nodosum* Kelp Meal products are a natural and cost effective enhancement to any soil fertilization and conditioning program. It is suitable for all crops and applications, and can be mixed with most soil conditioners and fertilizers. It can also be incorporated into potting soils, seed and transplant beds, as well as composting material.

For use on agronomic crops and gardens, apply in early spring as soon as soil can be worked. For perennial crops, apply at the end of dormancy. Mix thoroughly with the soil or growing media, taking care not to apply in concentrated form directly to the roots. To apply as a soil conditioner for fruit groves, ornamental trees, lawns and turf, apply directly as a top dressing.

The following application rates are approximate and may vary depending on climatic conditions, soil type and soil fertility.

FIELD CROPS:

200-400 lbs. per acre; 225-450 kg. per hectare

ROW CROPS:

2 lbs. per 100 feet; 1.5 kg. per 50 meters

VEGETABLE & FLOWER GARDENS:

3 lbs. per 100 sq. feet; 1.5 kg per 10 sq. meters

TREES & FLOWER GARDENS:

1 lb. per inch of tree diameter; 200 g. per cm. of tree diameter

TURF GRASSES & LAWNS:

10 lbs. per 1000 sq. feet; 5 kg. per 100 sq. meters

Typical Analysis

ORGANIC MATTER
ASH (MINERALS)
MOISTURE

MINERALS

TOTAL NITROGEN (N)

AVAILABLE PHOSPHORIC ACID (P₂O₅)

SOLUBLE POTASH (K,O)

ALUMINUM (AI)

ARSENIC (As)

BARIUM (Ba)

BERYLLIUM (Be)

BORON (B)

CADMIUM (Cd)

CALCIUM (Ca)

CHLORINE (CI)

CHROMIUM (Cr)

SEEDBEDS:

1 lb. per 100 sq. feet; 500 g. per 10 sq. meters

BEDDING PLANTS:

1 oz. (2 tbsp.) per 100 sq. feet; 500 g per sq. meter 20–25 g per 1000 cm² tray

POTTING MIXES:

2–3% of total volume of mix

FERTILIZER MIXES:

5–10% of total volume of mix

COMPOSTS:

10 lbs. per cubic yard; 6 kg. per cubic meter

66.0%
22.0%
12.0%
100.0%
0.6-2.0%
0.3-0.9%
2.5-3.7%
20–100 ppm (mg/kg)
<3 ppm (mg/kg)
15–50 ppm (mg/kg)
<1 ppm (mg/kg)
80–100 ppm (mg/kg)
<1 ppm (mg/kg)
1.0 - 3.0%
1.0-3.0%
<1 ppm (mg/kg)

Kelp Meal Typical Analysis (continued)

COBALT (Co) COPPER (Cu) IODINE (I) IRON (Fe) LEAD (Pb) MAGNESIUM (Mg) MANGANESE (Mn) MOLYBDENUM (Mo) NICKEL (Ni) SELENIUM (Se) SODIUM (Na) STRONTIUM (Sr) SULPHUR (S) TIN (Sn) TITANIUM (Ti) VANADIUM (V)	1-10 ppm (mg/kg) 4-15 ppm (mg/kg) 0.05-0.08% 0.015-0.10% <1 ppm (mg/kg) 0.5-1.0% 0-5 ppm (mg/kg) <1 ppm (mg/kg) 1-5 ppm (mg/kg) 3-4 ppm (mg/kg) 2.4-4.0% 100-200 ppm (mg/kg) 2.0-2.3% <10 ppm (mg/kg) 3-6 ppm
ZINC (Zn)	2–5 ppm (mg/kg) 35–100 ppm (mg/kg)
<u>pH</u>	6.0
CARBOHYDRATES ALGINIC ACID MANNITOL LAMINARIN OTHER CARBOHYDRATES	18.0-27.0% 3.0-8.0% 2.0-5.0% 20.0-22.0%
ALANINE ARGININE ASPARTIC ACID CYSTINE GLYCINE GLUTAMIC ACID HISTIDINE	5.3 8.0 6.9 trace 5.0 10.0
ISOLEUCINE LEUCINE LYSINE METHIONINE PHENYLALININE PROLINE SERINE THREONINE TRYPTOPHAN TYROSINE VALINE	2.8 4.6 4.9 0.7 2.3 2.6 3.0 2.8 trace 0.9 3.7

Neptune's Harvest Kelp Meal is produced from 100% pure *Ascophyllum Nodosum*, hence its composition may vary due to natural variations in live seaweed.

Available in 50 lb. bags.