


# MONTERRA BIO

## BIOLOGICAL FERTILIZERS

### *The optimal supply of nutrients and humus for biological crops*

**Monterra BIO** is a range of fertilizers specially designed for biological growing. They are supplied as pellets or crumbs. **Monterra BIO** fertilizers are excellent for precision fertilization of various crops such as vegetables, fruit, strawberries, wine, potatoes and grains.

Raw materials for the **Monterra BIO** fertilizers are of 100% natural origin, such as vinasse, molasses, cocoa, grape pulp meal, malt germs, horn chips, bone meal, feather meal and hair meal. The **Monterra BIO** fertilizers marked with the -logo are made from 100% vegetable raw materials only.


**Monterra BIO Malt** fertilizers contain at least 30% malt germs. The presence of phytohormones in the malt germs stimulates the root growth and nutrient uptake of plants.

**Monterra BIO** fertilizers contain all essential main and trace elements (such as Fe, Mn, B, Mo, Zn, Cu). They are pH-neutral and low in chlorine. Their high content of organic matter improves soil life and soil structure, helps to maintain soil fertility and also improves the moisture retaining capacity of the soil.


**Monterra BIO** fertilizers are free from pathogens and weed seeds and GMO-free. They are produced in conformity with EU Directives 834/2007 and 889/2008 for biological growing. The production process is controlled and certified by the Dutch certification organization Control Union Certifications. The MeMon CUC license number is: CU 800842.

### *Product range*


#### **Monterra BIO BASIC**

- Monterra BIO 13-0-0
- Monterra BIO 11-0-0
- Monterra BIO 4-10-2
- Monterra BIO  1-1-15

#### **Monterra BIO MALT**

- Monterra BIO Malt 5-1-5
- Monterra BIO Malt 9-1-4
- Monterra BIO Malt  4.5-2.5-8





#### **Monterra BIO2BIO**

- Monterra BIO Chicken manure 3.7-2.7-2.3
- Monterra BIO2BIO  4-2-1.5

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Monterra BIO BASIC fertilizers emphasize the supply of one of the main elements, Nitrogen (N), Phosphate (P<sub>2</sub>O<sub>5</sub>) or Potassium (K<sub>2</sub>O).

## Average analysis

MONTERRA BIO BASIC	MONTERRA BIO 13-0-0	MONTERRA BIO 11-0-0	MONTERRA BIO 4-10-2	MONTERRA BIO V 1-1-15
				
Dry matter (DM) %	90	90	90	90
Organic matter (OM) %	85	80	65	50
Nitrogen (N) total %	13.0	11.0	4.0	1.0
Nitrogen (N) organic %	12.7	10.4	3.8	0.8
Phosphate (P <sub>2</sub> O <sub>5</sub> ) %	0.5	0.0	10.0	1.0
Potassium (K <sub>2</sub> O) %	0.5	0.5	2.0	15.0
Magnesium (MgO) %	0.1	0.2	0.6	0.5
Sulphur (S) %	1.7	1.5	1.3	8.0
Calcium (CaO) %	1.0	1.0	8.5	1.5
pH ca.	5.5	5.5	6	6
C/N ca.	4	4	8	25
	<ul style="list-style-type: none"> <li>Highly concentrated N-fertilizer</li> <li>Quick and slow release nitrogen</li> <li>High organic matter content</li> </ul>	<ul style="list-style-type: none"> <li>Highly concentrated N-fertilizer</li> <li>Quick and slow release nitrogen</li> <li>High organic matter content</li> </ul>	<ul style="list-style-type: none"> <li>High organic phosphate content</li> <li>Contains 8.5% calcium</li> <li>High organic matter content</li> </ul>	<ul style="list-style-type: none"> <li>High organic potassium content</li> <li>100% vegetable raw materials</li> <li>High organic matter content</li> </ul>

## Dosage




MONTERRA BIO BASIC	MONTERRA BIO 13-0-0 [kg/ha]	MONTERRA BIO 11-0-0 [kg/ha]	MONTERRA BIO 4-10-2 [kg/ha]	MONTERRA BIO V 1-1-15 [kg/ha]
Vegetables - open field	300 - 1.500	350 - 1.700	750 - 2.000	1.000 - 2.500
Vegetables - glass houses	750 - 1.500	850 - 1.700	1.000 - 2.000	1.700 - 2.500
Fruit trees	500 - 1.500	600 - 1.700	300 - 700	1.200 - 2.500
Soft fruit	500 - 1.500	1.000 - 2.000	300 - 700	1.200 - 2.000
Strawberries	300 - 750	350 - 850	500 - 800	750 - 1.500
Citrus	500 - 1.500	600 - 1.700	1.000 - 1.200	1.200 - 2.000
Wine growing	300 - 750	350 - 850	300 - 700	750 - 1.500
Flowers	500 - 1.000	600 - 1.200	1.000 - 2.000	1.200 - 2.000
Tree nurseries	300 - 750	350 - 850	200 - 400	750 - 1.200
Potatoes	750 - 1.500	850 - 1.700	500 - 800	1.700 - 2.500
Lawns and sports turf	300 - 750	350 - 850	700 - 1.000	750 - 1.200

The fertilizer dosage depends on the crop, the type of soil and its nutrient and organic matter content and climate conditions.

# MONTERRA BIO

Monterra BIO MALT fertilizers contain at least 30% malt germs which stimulate the root growth and nutrient uptake of the plant.

## Average analysis

MONTERRA BIO MALT	MONTERRA BIO MALT 5-1-5	MONTERRA BIO MALT 9-1-4	MONTERRA BIO MALT 4.5-2.5-8 <sup>V</sup>
			
Dry matter (DM) %	90	90	90
Organic matter (OM) %	70	75	65
Nitrogen (N) total %	5.0	9.0	4.5
Nitrogen (N) organic %	4.6	8.1	4.0
Phosphate (P <sub>2</sub> O <sub>5</sub> ) %	1.0	1.0	2.5
Potassium (K <sub>2</sub> O) %	5.0	4.0	8.0
Magnesium (MgO) %	0.5	0.3	0.8
Sulphur (S) %	4.5	3.0	1.4
Calcium (CaO) %	1.5	2.0	4.0
pH	ca. 5.5	6	6
C/N	ca. 6	5	8
	<ul style="list-style-type: none"> <li>• Highly concentrated NPK-fertilizers</li> <li>• Well-balanced formulas</li> <li>• Contain at least 30% malt germs</li> <li>• Stimulate root growth and nutrient uptake</li> <li>• Monterra Malt V from 100% vegetable origin</li> </ul>		

## Dosage

MONTERRA BIO MALT	MONTERRA BIO MALT 5-1-5 [kg/ha]	MONTERRA BIO MALT 9-1-4 [kg/ha]	MONTERRA BIO MALT 4.5-2.5-8 <sup>V</sup> [kg/ha]
Vegetables - open field	750 - 2.500	500 - 1.500	1.000 - 2.500
Vegetables - glass houses	1.500 - 2.500	1.000 - 1.500	1.700 - 2.500
Fruit trees	1.000 - 2.000	750 - 1.500	1.200 - 2.500
Soft fruit	1.000 - 2.000	750 - 1.500	1.200 - 2.000
Strawberries	750 - 1.500	500 - 1.000	750 - 1.500
Citrus	1.000 - 2.000	750 - 1.500	1.200 - 2.000
Wine growing	750 - 1.500	500 - 1.000	750 - 1.500
Flowers	1.000 - 2.000	750 - 1.500	1.200 - 2.000
Tree nurseries	1.000 - 1.500	500 - 1.000	750 - 1.200
Potatoes	1.500 - 2.500	1.000 - 1.500	1.700 - 2.500
Lawns and sports turf	1.000 - 1.500	500 - 1.000	750 - 1.200

The fertilizer dosage depends on the crop, the type of soil and its nutrient and organic matter content and climate conditions.

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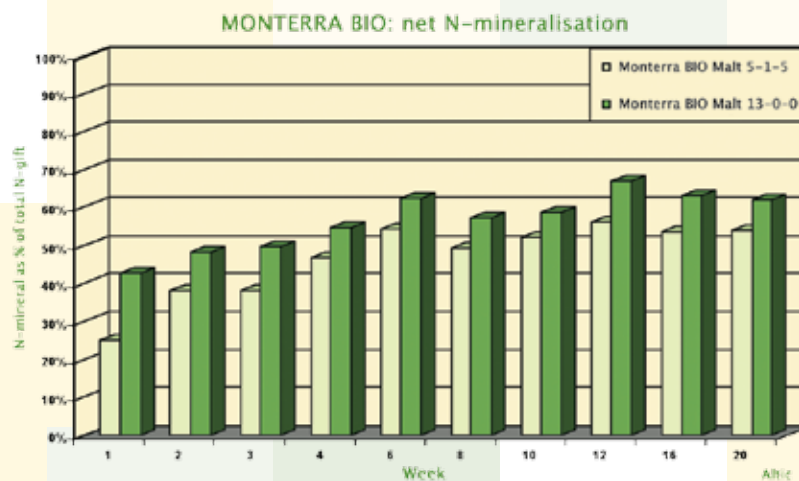
*The optimal supply of nutrients and humus for biological crops*

**Monterra BIO2BIO** fertilizers are made from raw materials of 100% biological origin. The range consists of the following two formulas:

- **Monterra BIO Chicken manure** 3.7-2.7-2.3
- **Monterra BIO2BIO**  4-2-1.5

Dependent on temperature and moisture, the nutrients in the **Monterra BIO** fertilizers are gradually released during the growing season. This creates an optimal uptake by the plants and limits the leaching of nutrients.

**Monterra BIO** fertilizers are available as pellets and crumbs. Because of the low humidity level of the fertilizer, the product keeps well during storage. In contact with soil or water the pellets/crumbs easily dissolve and release their nutrients through microbial decomposition.



**Monterra BIO** fertilizers can be applied by fertilizer spreader or by hand.

#### **Prior to sowing / planting:**

- Apply pellets ca. 10 days before
- Work pellets in properly and water thoroughly

#### **Use in planted areas:**

- Top or row fertilization: 15-20 cm from the roots of the plant
- Apply pellets before rain or water in after spreading