GUIDELINES FOR **PLANT MATERIAL** SAMPLING AND DELIVERY OF SAMPLES

CONTAINERS AND TOOLS. Knife or scissors, plastic bags (provided the samples are delivered to the laboratory within 3 hours after sampling) or paper bags (provided the delivery takes over 3 hours).

SAMPLING METHOD. Depending on a culture and its development phase, the part of the plant (indicator part) and amount to be sampled shall be determined according to Appendix 1. Single samples of plants are taken homogeneously from the entire field area and mixed into one combined sample. Sampling can be performed in a diagonal pattern or otherwise if samples are taken from plants typical for the field.

If plants in different states are observed in different parts of the field, it is desirable to prepare 2 separate combined samples.

It is forbidden to take plant samples:

- in hot weather;
- during and immediately after precipitation;
- after root and foliar fertilization (in the case fertigation, samples shall be taken directly before the next fertigation);
- from plants damaged by pests and diseases;
- from extreme field rows.

Each sample shall be marked with a label.

LABEL

Sample No.	
Customer: Company	
Contact person	
Phone	
Email	
Culture	
Development stage	
Indicator part	
Sampling date	
Analysis package No. and name	
Notes	

DELIVERY. Delivery shall be performed directly to the following address: 4 Pivdenna str., Kakhovka or by Nova Poshta delivery service — Kakhovka, department 1, recipient: TerraTarsa Ukraine LLC, tel. 0663432518. Please contact us, if you'd like to use other delivery services (KSD, Mist-Express, etc.).

When sending packages using the delivery services, paper bags with samples shall be packed in a cardboard box with several 0.5-1 cm openings.

Appendix 1. Guidelines for sampling plant indicator part for analysis

Culture	Growth stage	Indicator part	Number of plants
Barley	Tillering	Aboveground part	20-50
	Stem elongation	Aboveground part	20-50
	Flowering	Aboveground part; upper leaves	20-50
Wheat	Autumn tillering	Aboveground part	20-50
	Spring tillering	Aboveground part	10-20
	Stem elongation	Aboveground part; 2 upper leaves	20-50
	Ear formation	Aboveground part; upper leaves	20-50
	Flowering	Aboveground part	20-50
Corn	4-6th leaf	Aboveground part	10-15
	8-10th leaf	Aboveground part	10-15
	Before tasselling	Aboveground part	5-10
	Flowering	Leaf near ear	10-15
	Milky ripeness	Aboveground part	10-15
Soybean	Flowering	Aboveground part	10-15
	Early vegetation	Leaves	10-15
Pea	5-6th leaf	Aboveground part; all leaves	10-20
	Budding	Aboveground part	10-15
	Flowering	Aboveground part	10-15
	Beginning of afterripening	Leaves; aboveground part	10-15
Sunflower	4-6th leaf	Aboveground part	10-15
	Budding	Aboveground part; green leaves	10-15
	Flowering	Green leaves	10-15
Sugar beet	4-6th leaf	Blades of middle leaves	10-20
	Crop closing	Blades of middle leaves	10-15
	Before harvesting	Leaf stalks of middle leaves	10-15
	Harvesting	Tops; roots	10-15
Table beet	4-8th leaf	Upper leaves	10-15
	Crop closing	3-4th leaf from top	10-15
	Root growth	Blades and leaf stalks of middle leaves	10-15
	Harvesting	Leaves, roots	10-15
Flax	"Spruce"	Youngest developed leaf	15-20
	Budding	Aboveground part	15-20
	Flowering	Aboveground part	15-20
Cabbage	Leaf rosette	Upper leaves	10-15
	Before head blossom	4th leaf from top	5-15
	Head blossom	3-4th leaf from bottom	5-15
	Harvesting	Head	
Onion	Before bulbing	All leaves	20-30
	Bulbing	Aboveground part	20-30
	Harvesting	Bulb	
Tomato	Seedlings	Aboveground part	8-10
	1-2 truss	4-5th leaf from above	5-10
	Flowering	Leaves	5-10
	Budding	Aboveground part	5-10

	Fruiting	Leaves	5-10
Cucumber	4-5-7th leaf	Aboveground part	5-10
	Vegetative growth	Aboveground part	8-15
	Budding	4-5th leaf from above	8-15
	Flowering	4-5th leaf from above	8-15
Carrot	5-8th leaf	Leaves	10-15
	Root growth	Aboveground part	10-20
	3 weeks before harvesting	Leaves	10-20
	Harvesting	Leaves	10-20
Potato	Sprouts	2-3rd leaf	5-10
	Budding	Upper leaves	5-15
	Flowering	4-5th leaf from above	5-15
	Harvesting	Tubers	
Winter rape	4-6th leaf	Aboveground part	5-10
	Spring regrowth	Aboveground part	10-15
	Budding	Youngest developed leaf	10-15
	Flowering	Young fully developed leaves from the upper part of the plant	20-30