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STRUCTURE OF THE PLANT PROTECTION PRODUCTS MARKET IN UKRAINE IN 2017–2018. BY MANUFACTURER, OBJECT OF APPLICATION AND ACTIVE SUBSTANCE

As a result of the research of the market of plant protection products in Ukraine in 2017–2018, its structure by manufacturer, object of application, preparation forms and active substance was established. In total, 2,220 drugs are represented on the pesticide market of Ukraine. Of these, 413 (19 %) belong to insect acaricides, 738 (33 %) to fungicides, 1,058 (48%) to herbicides, 35 of them are desiccants. Another 11 drugs (0.5%) are rodenticides. The TOP applicants were established by the number of drugs presented on the market: "Bayer CropScience AG" – 142, TOB "Company "Ukravit" – 133, BASF CE – 117, "Syngenta" – 115, TOB "ADAMA Ukraine" – 78, ЗАТ "August–Bel" – 74, "Dupont International Operations Sarl." – 59, Agrosfera LLC, Agrosfera Ltd. LLC – 56, Khimagromarketing LLC – 54, Nertus Ltd. LLC – 50, Alfa Himgroup LLC – 47, Rangoli LLC – 44, Agrochemical Company LLC technologies" – 41, "Vassma Chemical" LLC – 35, "Presence Technologies" LLC – 35, "Stefes" LLC – 33, "Klov" LLC – 32, "APK–Service" LLC – 30, "Schelkovo Agrochem" CJSC – 29, "British Eco Systems Technology" – 28, "Keminova JSC" – 26, "Nupharm GmbH & Co. KG" – 26, "Agroflex" LLC – 24, "Frandesa" LLC – 24, "Ukragrocom" LLC – 22, "Aquarius & K" LLC – 21, "Dow AgroSciences LLC" – 21, "Ocean Invest" LLC – 20, "Rotam Agrochemical Europe Ltd." – 19, "Ekoorganik" LLC – 17, "Trans Oil" PJSC – 15, "YUPL Yuerep Ltd." – 15, LLC “Astarta–Kyiv” – 14, PE “Davkem” – 13, “Davkem Ltd.” – 13, PE “Kemiline Agro” – 12, “Sharda Cropham Limited” – 11. The TOP–4 by preparation form on the market of herbicides are: emulsion concentrate – 270, soluble concentrate – 225, water–soluble granules – 214, suspension concentrate – 150, denominations Other preparative forms represent 201 herbicides; the TOP–7 fungicides on the market are represented by: suspension concentrate – 317, emulsion concentrate – 115, liquid paste – 100, wettable powder – 67, water–soluble granules – 29, liquid suspension concentrate – 16, soluble concentrate – 11 items. Other preparative forms

represent 81 fungicides; on the insect–acaricide market, the TOP–7 are: emulsion concentrate – 141, suspension concentrate – 77, liquid paste – 47, water–soluble granules – 28, soluble concentrate – 24, wettable powder – 20, liquid suspension concentrate – 11 names. Other preparation forms represent 65 insect–acaricides. Analyzing the market of herbicides, the TOP–10 active substances on the basis of which prepatats are claimed to combat unwanted grassy vegetation have been identified: nicosulfuron (61 drugs, or 6 %), hizalofop–P–ethyl (33 drugs, or 3 %), fenmedifam (36 drugs, or 3 %), acetochlor (33 drugs, or 3 %), glyphosate and its salts (96 drugs, or 9 %), dismedifam (33 drugs, or 3 %), dicamba and its salts (59 drugs, or 6 %), diquat (35 drugs, or 3 %), etofumesate (37 drugs, or 3 %), tribenuron–methyl (56 drugs, or 5 %). Herbicides based on other 84 active substances account for 581 drugs, or 55 %, but no more than 3–4 drugs are produced based on each of them. On the market of fungicides, the TOP–11 active substances on the basis of which prepatats are claimed to combat plant pathogens are identified: metalaxyl (21 drugs, or 3 %), azoxystrobin (26 drugs, or 4 %), difenoconazole (26 drugs, or 4 %) , carbendazim (27 drugs, or 4 %), mancozeb (35 drugs, or 5 %), propiconazole (30 drugs, or 4 %), tebuconazole (111 drugs, or 15 %), tiram (18 drugs, or 2 %) , thiabendazole (20 drugs, or 3 %), flutriafol (47 drugs, or 6%), cyproconazole (25 drugs, or 3 %). Fungicides based on other 76 active substances account for 350 drugs, or 48%, but no more than 5–6 drugs are produced based on each of them. Analyzing the market of insect acaricides, the TOP–10 active substances on the basis of which prepatats are claimed to combat pests of cultivated plants were selected: alpha–cypermethrin (25 drugs, or 6 %), acetamiprid (13 drugs, or 3 %), dimethoate (23 drugs, or 5 %), imidacloprid (98 drugs, or 24 %), clothianidin (13 drugs, or 3 %), lambda–cyhalothrin (34 drugs, or 8 %), thiamethoxam (23 drugs, or 6 %), aluminum phosphide (19 drugs, or 5 %), chlorpyrifos (36 drugs, or 9 %), cypermethrin (29 drugs, or 7 %). Insect acaricides based on other 43 active substances occupy 100 preparations, or 24 %, however, based on each of them, no more than 4–5 preparations are produced.