

SOV-21-58-8-22/27

Effect of Various Forms of Potassium Fertilizers on the Yield of Farm Crops

ASSOCIATION: Institut fiziologii rasteniy (Institute of Plant Physiology)

SUBMITTED: March 23, 1958

NOTE: Russian title and Russian names of individuals and institutions appearing in this article have been used in the transliteration.

1. Plants--Nutrition    2. Fertilizers--Applications    3. Chlorides  
--Plant metabolism    4. Sulfates--Plant metabolism    5. Potassium  
--Plant metabolism

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VHJYK, P.A.  
VLASYUK, P.A.

What scientists are working on. Mekh. sil'. hosp. 9 no.1:4 Ja '58.  
(MIRA 11:2)

1. Prezident Ukrain's'koi akademii sil's'kogospodars'kikh nauk.  
(Farm mechanization)

~~VLASYUK, P.A.~~ [Vlasiuk, P.A.], akademik; RUDAKOVA, Ye.V. [Rudakova, IE.V.].

Influence of foliar feeding on the crop production of cultivated plants. Visnyk AN URSR 29 no.3:16-31 Mr '58. (MIRA 11:5)

1. AN URSR (for Vlasyuk). 2. Devstvitel'nyy chlen Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I. Lenina (for Rudakova). (Fertilizers and manures)

VLASYUK, P.A., akademik; SIROCHENKO, I.A.

Agrochemical services in the collective and state farms of the  
Ukrainian S.S.R. Visnyk AN URSR 29 no.4:30-34 Ap '58. (MIRA 11:6)

1. AN URSR i Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im.  
V.I. Lenina (for Vlasyuk).  
(Ukraine--Fertilizers and manures)

**AUTHORS:** Vlasyuk, P. A., Member, AS Ukrainian SSR, 20-119-1-17/52  
Bidzilya, N. I.

**TITLE:** The Influence of  $\beta$ -Particles From Radioactive Isotopes Upon the Size Variation of the Chloroplasts of Elodea Canadensis (Vliyaniye  $\beta$ -chastits radioaktivnykh izotopov na izmeneniye velichiny khloroplastov Elodea canadensis)

**PERIODICAL:** Doklady Akademii Nauk SSSR, 1958, Vol. 119, Nr 1, pp. 65-67 (USSR)

**ABSTRACT:** The present paper is devoted to an examination of the influence of  $\beta$ -particles of the radioactive isotopes  $S^{35}$ ,  $Ca^{45}$ ,  $W^{185}$  and  $P^{32}$  upon the size variation of the chloroplasts in the cells of Elodea canadensis. First the authors report shortly on previous papers dealing with the same subject. The leaves of Elodea canadensis consist of 2 layers of cells and are suited for the microscopical investigation of the chloroplasts in vivo. The Elodea culture was taken from natural waters and reared in aquariums with river sand and tap water. After 5 months from the young plants, which were reared in the

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Upon the Size Variation of the Chloroplasts of Elodea  
Canadensis

aquariums, about equally old 7-8 cm long twigs were taken. Each 3-4 of them were put into glass containers with each 200 g of river sand and 1/2 liter of water. After a week radioactive isotopes were introduced into these containers in the form of solutions of the salts  $\text{Na}_2\text{S}^{35}\text{O}_4$ ,

$\text{Ca}^{45}\text{SO}_4$ ,  $\text{Na}_2\text{W}^{185}\text{O}_4$  and  $\text{K}_2\text{HP}^{32}\text{O}_4$ . The experiments took place in 1956 and 1957. On the control experiments also shortly is reported. The plants obtained beside the natural scattered light a daily illumination throughout 8 hours by 4 lamps of 75 watt each. Two days after the introduction of the radioactive isotopes the shape and the size of the chloroplasts in the cells of the Elodea was investigated microscopically. The results of the measurements are composed in a table. A diagram illustrates the progressing size variation of the chloroplasts. The most effective influence upon the size variation of the chloroplasts have the  $\beta$ -particles of  $\text{W}^{185}$ . On the 9th day after

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Upon the Size Variation of the Chloroplasts of Elodea  
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the beginning of the  $\beta$ -irradiation the diameter of the chloroplasts, which were irradiated by  $W^{185}$ , increased by 40% compared with the control plants. The stable isotopes influence the size of the chloroplasts of Elodea only very insignificantly. From the results of the here discussed experiments the following results: For the biological effect of the ionizing radiation not only the quantity of the radioactive isotope and of its radiation is of importance, but also the radiation energy of its particles. The highest energy have the radiation from  $P^{32}$  and  $W^{185}$  and the biological effect of these isotopes actually is the greatest. Beside the size variation of the chloroplasts also the acceleration of the motion of the protoplasm in the cells was observed in these plants. This obviously is a consequence of the increased hydration of the protoplasm under the action of the radiation. From all the here reported facts the following preliminary conclusion can be derived: Even low doses of  $\beta$ -radiation of the isotopes

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The Influence of  $\beta$ -Particles From Radioactive  
Isotopes Upon the Size Variation of the Chloro-  
plasts of *Elodea Canadensis*

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$S^{35}$ ,  $Ca^{45}$ ,  $P^{32}$  and  $W^{185}$  cause an increase of the size of  
the chloroplasts of *Elodea* and the radiation energy of the  
 $\beta$ -particles plays a special rôle in this case.  
There are 2 figures, 2 tables and 3 references, all of  
which are Soviet.

ASSOCIATION: Ukrainskiy nauchno-issledovatel'skiy institut fiziologii  
rasteny (Ukrainian Scientific Research Institute for  
Plant Physiology)

SUBMITTED: September 30, 1957

Card 4/4



VLAS, YUK, P.A.

"The Importance of Mn and its Ukrainian Agriculture."  
Paper submitted for the Int'l Botanical Congress, Montreal, Canada, 19-29 Aug 1959.

Ukrainian Academy of Agric. Sciences, Kiev, U.S.S.R.

VLASYUK, Petr Antipovich [Vlasiuk, P.A.], akademik; SIROCHENKO, I.A., doktor  
sel'skokhoz.nauk, red.

[Significance of chemistry in agriculture] Znachennia khimi u  
sil's'komu hospodarstvi. Kyiv, 1959. 39 p. (Tovarystvo dlia  
poshyrennia politychnykh i naukovykh znan' URSS. Ser. 6, no.2)  
(Agricultural chemistry) (MIRA 12:4)

POPOV, Fedor Andreyevich, kand.sel'skokhoz.nauk; VLASYUK, P.A.,  
akademik, glavnyy rad.

[Soil cultivation practices in the Ukraine] Systema  
obrabitku bruntu na Ukraini. Kyiv, 1959. 49 p. (Tova-  
rystvo dlia poshyrennia politychnykh i naukovykh znan'  
Ukrains'koi RSR. Ser.6, no.17) (MIRA 13:1)  
(Ukraine--Tillage)

PEYVE, Ya.V., glav. red.; ALIYEV, G.A., akademik, red.; ABUTALYBOV, M.G., prof., red.; BERZIN, YA.M. [Berzins, J.], akademik, red.; VINOGRADOV, A.P., akademik, red.; VLASYUK, P.A., akademik, red.; VOYNAR, A.O., prof., red.; DROBKOV, A.A., prof., red.; KATALYMOV, M.V., prof., red.; KOVAL'SKIY, V.V., red.; KOVDA, V.A., red.; KEDROV-ZIKHMAN, O.K., akademik, red.; LEONOV, V.A., akademik, red.; PETERBURGSKIY, A.V., prof., red.; SINYAGIN, I.I., red.; CHERNOV, V.A., prof., red.; CHANISHVILI, Sh.F., red.; SHKOL'NIK, M.Ya., prof., red.; SHCHERBAKOV, A.P., kand. sel'khoz. nauk, red.; VENGRANOVICH, A., red.; DYMARSKAYA, O., red.; KLYAVINYA, A [Klavina, A.], tekhn. red.

[Use of trace elements in agriculture and medicine; transactions]  
Primenenie mikroelementov v sel'skom khoziazstve i meditsine; trudy.  
Riga, Izd-vo Akad.nauk Latviskoi SSR, 1959. 706 p. (MIRA 14:12)

1. Vsesoyuznoye soveshchaniye po mikroelementam. 3d, Baku, 1958.
2. Chlen-korrespondent Akademii nauk SSSR (for Peyve, Kovda).
3. AN Azerbaydzhanskoy SSR (for Aliyev).
4. AN Latviyskoy SSR (for Berzin).
5. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Vlasyuk, Kedrov-Zikhman).
6. AN Belorusskoy SSR (for Leonov).
7. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Sinyagin, Koval'skiy).
8. Chlen-korrespondent AN Gruzinskoy SSR (for Chanishvili).

(Trace elements) (Biochemistry) (Agriculture)

VLASYUK, P.A. [Vlasiuk, P.A.], red.

[Our prospects for the coming seven years] *Nashi perspektyvy*  
na nastupne semyrichchia. Kyiv, Derzhsil'hospvydav URSR, 1959.  
87 p. (MIRA 13:2)

(Ukraine--Agriculture)

VLASYUK, Petr Antipovich, akademik; KOSMATYY, Yevdokim Stepanovich, kand.khim.nauk; DMITRENKO, P.A., otv.red.; SKOL'ZNEVA, Ye.A., red.; MANOYLO, Z.F., kmdozh.-tekhn.red.

[Tagged atom method in agricultural physiology] Metod mechenykh atomov v agrofiziologii. Kiev, Izd-vo Ukrainskoi akad.sel'khoz.nauk, 1959. 326 p. (MIRA 13:5)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I. Lenina; AN USSR; Ukrainskaya Akademiya sel'skokhozyaystvennykh nauk (for Vlasyuk). 2. Chlen-korrespondent Ukrainskoy akademii sel'skokhozyaystvennykh nauk (for Dmitrenko). (Tracers (Biology)) (Plant physiology--Research)

VLASYUK, P.A., akademik; LISOVAL, P.Z., kand.biol.nauk

Improving nutritional conditions of plants by using various  
types of potassium fertilizers. Agrobiologia no.1:9-22  
Ja-F '59. (MIRA 12:4)

1. Institut fiziologii rasteniy, USSR, g. Kiyev.  
(Plants, Effect of potassium on)

VLASYUK, P.A., akademik; PORUTSKIY, G.V.

Effect of nucleic acid metabolism on the viability of plants.  
Agrobiologiya no.2:177-183 Kr-Ap '59. (MIRA 12:6)

1. Ukrainskiy institut fiziologii rasteniy, g.Kiyev.  
(Nucleic acids) (Plants--Metabolism)



VLASYUK, P.A.; DARMENKO, M.S.

Using bentonites in agriculture. Bent.gliny Ukr. no.3:168-175  
'59. (MIRA 12:12)

1. Ukrainskiy nauchno-issledovatel'skiy institut fiziologii  
rasteniy.  
(Plants--Nutrition) (Bentonite)

VIASYUK, P.A.; KLIMOVITSKAYA, Z.M.; VIZIR', K.L.

Manganese distribution in some cellular structures of plants.  
Izv.AN SSSR.Ser.biol. no.3:368-378 My-Je '59. (MIRA 12:9)

1. The Ukrainian Research Institute of Plant Physiology, Kiev.  
(MANGANESE) (PLANTS--ASSIMILATION)

VLASYUK, P.A.

"The great chemical industry" helps our fields. Znan. ta pratsia  
no.4:11-12 Ap '59. (MIRA 12:16)

1. Prezident Ukrainskoy akademii sel'skokhozyaystvennykh nauk.  
(Agricultural chemistry)

30(1)

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AUTHORS: Vlasyuk, P.A., Member of the AS UkrSSR and of the VASKhNIL; and Shmat'ko, I.G.

TITLE: Effect of Nutrition Conditions on the Physiological Processes and Productivity of Sugar Beet Transplants

PERIODICAL: Dopovidi Akademii nauk Ukrain's'koi RSR, 1959, Nr 4, pp 429-433 (USSR)

ABSTRACT: The authors studied the effect of various conditions of nutrition, created by introduction of organic and mineral fertilizing mixtures, on the physiological processes and productivity of sugar beet transplants, on five specimens of transplants, in 1957-58. Every transplant was put in a pot with 32 kg of earth. The fertilizing mixtures for each plant consisted of 250 g semi-rotten manure, 10 g superphosphate, 5 g ammonium nitrate, 10 g manganic sludge and 15 g faeces. The experiments have established that admixing of above-named fertilizer had good effect on the physiological processes of metabolism. The plants

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Effect of Nutrition Conditions on the Physiological Processes  
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showed considerable rise in the intensity of photosynthesis and respiration, growth, development and productivity; the weight of the sugar beet seed balls increased. The best assimilation was shown by the transplant treated with a mixture of manure, superphosphate and ammonium nitrate. The same plant showed particular development of its leaves. The transplant treated with a mixture of manure, superphosphate and manganic sludge showed stronger stalk and larger beet seed balls. The admixture of faeces decreased the intensity of the photosynthesis. The photosynthesis study was made by Kh.M. Pochinok. There are 5 tables and 1 photo.

ASSOCIATION: Ukrainskiy nauchno-issledovatel'skiy institut fiziologii rasteniy (Ukrainian Scientific Research Institute of Physiology of Plants)

SUBMITTED: January 20, 1959

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VLASYUK, P.A.; KLIMOVITSKAYA, Z.M.

Manganese in different cellular structures of plants. Fiziol. rast.  
6 no.5:560-567 S-0 '59. (MIRA 13:2)

1. Ukrainian Scientific Research Institute of Plant Physiology,  
Kiyev.

(Plants, Effect of manganese on)

VLASYUK, P.A.

New tasks for agricultural science. Nauka i zhyttia 9 no.1:  
9-13 Ja '59. (MIRA 12:1)

1. Prezident Ukrainskoy akademii sel'skokhozyaystvennykh nauk.  
(Ukraine--Agriculture)

VIASYUK, P., akademik

Radioactive isotopes. Nauka i pered. op. v sel'khoz. 9 no.4:39-44  
Ap '59. (MIRA 12:6)

1. Institut fiziologii rasteniy Ukrainskoy akademii sel'sko-  
khozyaystvennykh nauk. (Radioisotopes)



VLASYUK, P.A.

Based on agricultural science. Nauka i zhyttia 9 no.6:31-35  
Je '59. (MIRA 12:8)

1. Prezident Ukrainskoy akademii sel'skokhozyaystvennykh nauk.  
(Ukraine--Agriculture)

VLASYUK, P.A., akademik

Natural radioactivity in plants and potassium fertilizers.  
Dokl. Akad. sel'khoz. 24 no.2:3-8 '59. (MIRA 12:2)

1. Ukrainskiy nauchno-issledovatel'skiy institut fiziologii  
rasteniy Ukrainskoy akademii sel'skokhozyaystvennykh nauk.  
(Plants, Effect of potassium on)  
(Plants, Effect of radioactivity on)

VLASYUK, P.A., akademik

Effect of microelements and ultramicroelements on the quality of  
farm crops. Dokl. Akad. sel'khoz. 24 no.7:3-7 '59.  
(MIRA 12:10)

1. Ukrainskiy nauchno-issledovatel'skiy institut fiziologii  
rasteniy.  
(Trace elements) (Field crops)

VLASYUK, P.A., akademik; KARDINALOVSKAYA, R.I.

Fertilizer potassium fixed in soil and its release and utilization by plants. Dokl.Akad.sgl'khoz. 24 no.10:9-14 '59.  
(MIRA 13:2)

1. Ukrainskiy nauchno-issledovatel'skiy institut fiziologii rasteniy.  
(Potassium) (Fertilizers and manures)

VLASYUK, P.A. [Vlasiuk, P.A.], akademik

Principal chemical problems in agricultural biology and in industry. Visnyk AN URSS 30 no.1:3-9 Ja '59. (MIRA 12:4)

1. AN USSR, Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. Lenina, Ukrainskaya akademiya sel'skokhozyaystvennykh nauk, prezident Ukrainskoy akademii sel'skokhozyaystvennykh nauk.  
(Chemical industries)

LUCHKO, Aleksandr Sergeevich [Luchko, O.S.], agronom; VLASYUK, P.A.,  
akademik, red.; GURENKO, V.A. [Hurenko, V.A.], red.

[Growing peas in the Ukraine] Dosvid vyroshchuvannia horokhtu  
na Ukraini. Za red. R.A.Vlasiuka. Kyiv, 1960. 43 p. (Tovarystvo  
dlia poshyrennia politychnykh i naukovykh znan' Ukrain's'koi RSR.  
Ser.6, no.11). (MIRA 13:9)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. V.I.  
Lenina; AN USSR i Ukrainskaya akademiya sel'skokhozyaystvennykh  
nauk (for Vlasyuk).  
(Ukraine--Peas)

VLASYUK, P.A., akademik, otv.red.; YUR'YEV, V.Ya., akademik, zam. otv. red.; BUZANOV, I.F., akademik, red.; DANILENKO, I.A., red.; DELOHE, L.N., doktor biolog.nauk, red.; KUCHUMOV, P.V., doktor sel'skokhoz.nauk, red.; POLYAKOV, I.M., red.; STRONA, I.G., kand.sel'skokhoz.nauk, red.; TKACHENKO, F.A., kand.sel'skokhoz.nauk, red.; CHIZHENKO, I.A., kand.ekonom.nauk, red.; LESOVICHENKO, Ya.V., red.; MANOYLO, Z.T., tekhn.red.

[Vegetables and potatoes; works of scientific session, No.2]  
Ovoshchnye kul'tury i kartofel'; trudy nauchnoi sessii, vypusk 2.  
Kiev, Izd-vo Ukrainskoi Akad.sel'khoz.nauk, 1960. 132 p.  
(MIRA 14:1)

1. Ukrainskiy ordena Lenina nauchno-issledovatel'skiy institut rasteniyevodstva, seleksii i genetiki. 2. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Denilenko). 3. Chlen-korrespondent AN USSR (for Strona).  
(Vegetable gardening) (Potatoes)

VLASYUK, P. A.

"Investigations Of Soils In The Farming System Of The Ukraine".

report submitted for the 7th Congress of International Society of Soil Science  
Madison, Wisconsin, 15-23 Aug 60.



VLASYUK, Petr Antipovich, akademik; KALININ, F.L., doktor biolog.nauk, red.

[Michurin's teaching in the people's service] Michurins'ke  
vchennia na sluzhbi narodu. Kyiv, 1960. 79 p. (Tovarystvo dlia  
poshyrennia politychnykh i naukovykh znan' Ukrain'skoi RSR. Ser.4,  
no.2-3). (MIRA 13:6)

1. Prezident Ukrainiskoy Akademii sel'skokhozyaystvennykh nauk (for  
Vlasyuk).

(Agricultural research)

VLASYUK, P.A., akademik, otv. red.; GARKUSHA, M.A. [Harkusha, M.A.], red.; ZORIN, I.G. [Zorin, I.H.], red.; KOZIY, G.V. [Kozii, H.V.], prof., red.; KUKSIN, M.V., kand. sel'khoz.nauk, red.; CHERKASOVA, V.O., kand. sel'khoz.nauk, red.; YUKHIMCHUK, F.P. [Iukhymchuk, F.P.], kand., sel'khoz.nauk, red.; LISOVICHENKO, Ya.V. [Lisovychenko, I.A.V.], red.; VIDONYAK, A.P., tekhn. red.

[Increasing the productivity of natural forage lenads in the Ukrainian S.S.R.; transactions of the session of the Department of Agriculture of the Ukrainian Scientific Research Institute of Agriculture] Pidvyschennia produktyvnosti pryrodnykh kormovykh uhid' Ukrains'koi RSR; pratsi naukovoï sesii Viddilennia zemlerobstva. Kyiv, Vydavnytstvo UASHN, 1960. 185 p. (MIRA 15:7)

1. Prezident Ukrainskoy akademii sel'skokhozyaystvennykh nauk (for Vlasyuk). 2. Sekretar Kiyevskogo oblastnogo komiteta Kommunisticheskoy Partii Ukrainy (for Garkusha). 3. Chlen-korrespondent Ukrainskoy akademii sel'skokhozyaystvennykh nauk, zamestitel' ministra sel'skogo khozyaystva USSR (for Zorin). 4. Nauchno-issledovatel'skiy institut zemledeliya i zhivotnovodstva zapadnykh rayonov USSR (for Koziy). 5. Ukrainskiy nauchno-issledovatel'skiy institut zemledeliya (for Kuksin). 6. Poltavskaya gosudarstvennaya sel'skokhozyaystvennaya issledovatel'skaya stantsiya (for Cherkasova).

(Ukraine—Pastures and meadows)

VLASYUK, P.A., akademik, otv.red.; YUR'YEV, V.Ya., akademik, zam.otv.red.;  
 BUZANOV, I.F., akademik, red.; DANILENKO, I.A., red.; DELONE,  
 L.N., doktor biolog.nauk, red.; KUCHUMOV, P.V., doktor sel'skokhoz.  
 nauk, red.; POLYAKOV, I.M., red.; STRONA, I.G., kand.sel'skokhoz.  
 nauk, red.; TKACHENKO, F.A., kand.sel'skokhoz.nauk, red.;  
 CHIZHENKO, I.A., kand.ekonom.nauk, red.; BLANINA, L.F., red.;  
 VIDONYAK, A.P., khud.-tekhn.red.

[Problems in improving the quality of agricultural products; pro-  
 ceedings of the scientific session] Voprosy uluchsheniia ka-  
 chestva sel'skokhoziaistvennoi produktsii; trudy nauchnoi sessii.  
 Kiev, Izd-vo Ukrainskoi Akad.sel'khoz.nauk. No.4. [Feeds and  
 livestock products] Korma i produkty zhivotnovodstva. 1960. 143 p.  
 (MIRA 14:1)

1. Ukrainskiy ordena Lenina nauchno-issledovatel'skiy institut  
 rasteniyevodstva, selektsii i genetiki. 2. Chlen-korrespondent Vse-  
 soyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina i  
 Ukrainskoy akademii sel'skokhozyaystvennykh nauk; Nauchno-issledo-  
 vatel'skiy institut zhivotnovodstva Lesostepi i Poles'ya USSR (for  
 Danilenko). 3. Chlen-korrespondent AN USSR (for Polyakov).
4. Ukrainskiy ordena Lenina nauchno-issledovatel'skiy institut raste-  
 niyevodstva, selektsii i genetiki (for Strona).  
 (Feeds) (Stock and stockbreeding)

VLASYUK, P.A.; KLIMOVITSKAYA, Z.M.; VIZIR, K.L.

Role of the root system in the translocation and transformation of manganese in plants. Izv.AN SSSR. Ser.biol. no.6:865-873 N-D '60.  
(MIRA 13:11)

1. Academy of Agricultural Sciences of the Ukrainian S.S.R., Kiev.  
(ROOTS (BOTANY))  
(PLANTS, MOTION OF FLUIDS IN)  
(MANGANESE)

VLASYUK, P.<sup>A</sup> akademik

Problems in the physiology of plants. Nauka i zhyttia 10  
no.1:30 Ja '60. (MIRA 13:6)

1. AN USSR, Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk  
imeni V.I.Lenina, Ukrainskaya akademiya sel'skokhozyaystvennykh  
nauk i direktor Ukrainского nauchno-issledovatel'skogo instituta  
fiziologii rasteniy.  
(Botany--Physiology)

VLASYUK, P.A.

Plant physiology and the agricultural science. Bot.zhur. 45  
no.3:446-453 Mr '60. (MIRA 13:6)

1. Ukrainskiy nauchno-issledovatel'skiy institut fiziologii  
rasteniy, Kiyev.  
(Plant physiology) (Agricultural research)

VIASYUK, P.A., akademik; KIBALENKO, P.P., kand.sel'skokhoz.nauk; MANORIK,  
A.V. [Manoryk, A.V.], kand.biolog.nauk, otr.za vypusk;  
MASLOBOYSHCHIKOVA, O.S. [Masloboishchykova, O.S.], red.;  
POTOTSKAYA, L.A. [Potots'ka, L.A.], tekhn.red.

[Advice for the use of boron fertilizers in agriculture] Reko-  
mendatsii po zastosuvanniu bornykh dobryv u sil's'komu hospo-  
darstvi. Kyiv, Vyd-vo Ukrain's'koi akademii sil's'kohospodars'kykh  
nauk, 1961. 10 p. (MIRA 15:4)

1. Ukrain's'kii naukovo-doslidnyi instytut fiziologii roslyn.  
(Fertilizer and manures)

LIKHVAR, Daniil Fedorovich [Lykhvar, D.F.]; CHEMERIS, Petr Klimovich [Chemerys, P.K.], aspirant; GURENKO, V.A. [Hurenko, V.A.], red.; VLASYUK, P.A., akademik, otv. red.: MATVIICHUK, O.A., tekhn. red.

[Companion cropping of corn with pulse for silage] Sumisne vyroshchuvannia kukurudzy z zernobobovymy na sylos. Kyiv, 1961. 45 p. (Tovarystvo dlia poshyrennia politychnykh i naukovykh znan' Ukrain's'koi RSR. Ser.5, no.24) (MIRA 15:2)

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VLASYUK, Petr Antipovich, akademik, zasl. deyatel' nauki USSR; PROTSENKO, D.P., doktor biolog. nauk, prof., otv. red.; LEUSKIY, A.V. [Leus'kyi, A.V.], red.; MATVIICHUK, O.A., tekhn. red.

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VLASYUK, Petr Antipovich, akademik; LISOVAL, Petr Zakharovich;  
BLANINA, L.F., red.; KVITKA, S.P., tekhn. red.

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siuka. Kyiv, Vyd-vo Ukr. akad. sil's'kohospodars'kykh nauk,  
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(MIRA 14:6)

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(Plants--Chemical analysis)

VLASYUK, P.A., akademik

For a close tie between science and the work of the people. Visnyk  
sil'hosp.nauky 4 no.8:3-10 Ag '61. (MIRA 14:7)

1. AN USSR, Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk,  
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International congress of soil scientists. Nauka i zhyttia 11  
no.1:57-59 Ja '61. (MIRA 14:3)

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Zemledelie 23 no.6:81-88 Je '61. (MIRA 14:6)  
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(Grain)

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VLASYUK, P.A.

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VLASYUK, P.A.; PROTSENKO, D.F.; KOLOSHA, O.I.

Physiological principles of harvesting grain in separate stages.  
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GRODZINSKIY, Dmitriy Mikhaylovich; VLASYUK, P.A., akademik, otv. red.;  
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MASLOBOY SHCHIKOVA, O.S. [Masloboishchykova, O.S.], red.;  
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L.A., tekhn. red.

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PROTSENKO, D.P., prof., red.; KAPITANCHUK, V.A., nauchn.  
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PEYVE, Ya.V., akademik, otv. red.; VLASYUK, P.A., akademik, red.;  
SIROCHENKO, I.A., prof., red.; VOYNAR, A.I., prof., red.;  
MINORIK, A.V., kand. biol. nauk, red.; OSTROVSKAYA, L.K.,  
doktor biol. nauk, red.; ZADERIY, I.I., doktor sel'khoz.  
nauk, red.; KURINNAYA, M.F., dots., red.; KLIMOVITSKAYA,  
Z.M., kand. biol. nauk, red.; MITSYK, V.Ye., kand. vet.  
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4. Kiyevskiy meditsin-  
skiy institut (for Kurinnaya).
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biol. nauk, red.; ZADERNYI, I.I., doktor sel'khoz. nauk,  
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L.P.

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KALININ, F.L., doktor biol. nauk, red.; OKANENKO, A.S.,  
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renal plethysmograph (Rus))  
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same)

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(Cherkassy Province--Sugar industry)

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2. USSR (600)
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7. Buried soils of the second (sand) terrace of the middle and lower Dnieper.  
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VIACZATI, Odon, dr.

Experiments with herbicides performed in poplar plantations.  
Erde 14 no.3:139 Mr '65.

HUNGARY/Weeds and Weed Control.

N

Abs Jour : Ref Zhur Biol., No 18, 1958, 82632

Author : Vlaszaty, Gdon

Inst : -

Title : Results of Tests on Chemical Control of Weeds in Forestry

Orig Pub : Erdeszeti kutatasok, 1957, No 1-2, 95-112

Abstract : A method of destroying weeds milkweed (*Asclepias syriaca*) and quack grass (*Agropyron repens*) by chemical means has been developed in Hungary. Quack grass control was carried out in combination with soil cultivation. Evaluation of the results of the tests on controlling beach grass (*Calamagrostic epigeios*) has not been completed. It is recommended to destroy weeds on areas contaminated with rhizome weeds prior to afforestation. In n.rseries, after treatment with chemical means, contaminated areas must be excluded from production for one year and left as bare fallow. -- A.M. Shchepetil'niko-

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Albomycin therapy in pneumonia in infants. *Novosti med.* No. 23, 1951.

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