

Utility model

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- To permit the use of CM on the basis of license agreements;
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Institute of Plant . Yuriev is the owner of patents for utility models:

Utility models

1.METHOD GETTING inbred lines of sunflower with high content of glycerides of palmitic acid

Method of inbred sunflower lines with a high content of palmitic acid glycerides include effects on quality of oil in seeds. Increasing glycerides of palmitic acid is carried out by chemical mutagenesis , processing seeds aqueous N- nitroethylsechovyny in concentration 0.08 %. more ...

2. METHOD FOR CORN endospermal recombinant

A method for producing recombinant maize endospermal involves hybridization between a source endospermal nonallelic mutations, a self-pollination and hybrid plants of the first generation and second generation and selection in third-generation recombinant forms of the phenotype of seeds. For all possible recombination between genes among seed endosperm structure of the second generation stands to have a phenotype hipostatychnoho gene among seeds of the third generation - to have a phenotype epistatychnoho gene. more ...

3. Way to create lines and hybrids of maize with improved protein quality and starch

Method of creating lines and hybrids of maize with improved quality protein and starch comprises providing a high content of amylopectin in starch using mutatsiywx . To ensure consistency of powdery grain, high moisture content of the starch and essential amino acids and reduction of alcohol-soluble proteins using genetic recombination o2wx. more ...

4. METHOD FOR RECOVERY OF SEED cereals

Method of recovery of seed cereals , where the original seed sample is divided into samples for determination of similarity to existing standards , then placed in a device with hot water, and samples 5-10 minutes removed from the device dry mass to that of the initial samples kept at ambient temperature for at least 10 days and lay on germination to determine similarity , and their results are choosing the mode of production processing of seed from which sample was taken for testing , and this choice depends on the purpose of further use of seeds, namely for disinfection of external and internal infections, the optimal mode is as follows , where the similarity test samples decreased by 5.7 % compared to untreated seeds , for future management of primary seed - by 40-75 % for the comparative evaluation of thermal stability of

different varieties or seed lots particular grade - by 45-50 %. more ...

5. METHOD seed treatment CROP

Method of seed treatment processing of agricultural crops including systemic effects of protectants (fungicides). Moreover , the seeding day protruyennya use the full rate of fungicide seed per unit mass or reduce its do1/4chastyny □□ compatible with making the working fluid for protruyennya biological (bacterial fertilizers) and growth regulators (both individually and in mixtures) or seeds or pre- ozonized irradiated electromagnetic fields , while hung over the next 15 days protruyennya only one fungicide , it is also proportional to the rate of decrease do1/4chastyny □□ . more ...

6. Way to create lines and hybrids of corn with a high content of protein and oil, and improved protein quality

Method of creating lines and hybrids of maize with a high content of protein and oil, and improved quality of protein involves the use of nonallelic interactions between genes endosperm structure . In proteins using biochemical effects of genetic recombination o2sh2.

more ...

7. METHOD FOR DETERMINATION OF STABILITY OF SAMPLES peas to pathogens Fusarium affected root rot

Method for determining the resistance of plants to pathogens fusariose pea root rot includes measurement of height and stem length of root in 11 -day plants grown in rolls of filter paper. Spend inoculated pea seeds fusariose root rot pathogens from exposure 2 hours. Determine the mass of stems and roots and the degree of depression of growth processes relative to uninfected control variant .

more ...

8. APPLICATION OF GROWTH REGULATORS AND Emistim C Agrostimulin for rapid multiplication of seed of spring cereals

How to use growth regulators Emistim C and Agrostimulin for accelerated multiplication of seeds of spring cereals in tank mixtures with remedies roslyn. Emistym C or Agrostimulin used twice - in doposivniy seed treatment and during the growing season . more ...

9. POLIMERNA film for food packaging

Polymer films for food packaging , which consists of plivkoutvoryuvacha , plasticizer and solvent. To improve the water resistance and improved structural and mechanical properties as plivkoutvoryuvach using natural or modified corn starch containing amiloznoyi fraction more than 60% as plasticizer - a mixture of sorbitol and glycerol in a weight ratio of 26:74 , and as a solvent - water. more ...

10. Food sputtered film- COVER

Food sputtered film- coating consists of plivkoutvoryuvacha , plasticizer and solvent. To improve the water resistance and digestibility , improved structural and mechanical properties, reduce costs and simplify manufacturing plivkoutvoryuvach used as natural or modified corn starch containing amiloznoyi fraction more than 60% as plasticizer - glycerin , and as a solvent - water. more ...

11. METHOD FOR PRODUCING sugar cookies

A method of making sugar cookies includes preparing an emulsion of milk, syrup , sugar , egg , or phosphatides , a solution of baking powder, margarine or butter, adding to the emulsion a mixture of wheat and corn flour, kneading , shaping and baking finished products. As

prescription component used flour dough with mature grains of sweet corn from natural mutatsiyisu1v of 10-35% of the total weight prescription ingredients. more ...

12. METHOD EXPOSURE SEED preplant cereals electromagnetic fields

Method preplant seed irradiation cereals electromagnetic fields including radiation electromagnetic fields of extremely high frequency (UHF EMF). Microwave EMF Radiation is carried out in the frequency range of 2,5-3,4 GHz in energy consumption 1,6-2 kVt/1kh seeds and humidity 9-15 % for 5 to 50 sec. , and heating it within 26-85 ° C. more ...

13. STABILITY EVALUATION METHOD VARIETIES cereals to stressful growing conditions

Method of estimation of stability varieties cereals to stressful growing conditions include effects on seed stressors , followed by assessment of survival set seed varieties particular party that expresses its resistance . Seeds irradiated with electromagnetic fields of extremely high frequencies in the range of 2,5-3,4 GHz with power consumption of 1,6-2 kW / 1 kg of seeds and moisture content 9-15 % for 5 to 50 sec. , And heating it within 26-85 ° C , followed by assessment of the degree of survival depending on the time of irradiation . more ...

14. SELECTION PROCESS STABLE to pathogens Fusarium affected FORMS pea root rot

Method of selection of resistant pathogens fusariose forms of pea root rot , which can extend the resolution method of individual selection of resistant pathogens fusariose forms of pea root rot by artificial inoculation of seed pathogens. more ...

15. METHOD OF ACCOUNTING infestation cereals and legumes SHEET Disease

Method of accounting infestation of cereals and legumes leaf diseases, including spectral analysis of color using the software, a preliminary assessment of the data set , and the score is performed by a computer and includes diagnostic imaging sheet through the scanner and

distribution area on the spectral components and their comparison to highlight the affected areas of the sheet.

more ...

16. Way to increase the hybridization of peas

Method of improving the efficiency of hybridization involves sowing peas parental forms in nursery схрещувань. Сівбубатьківських сортів зразків гороху carried out in four periods every 3 days from the optimal one this bed three p'yatyryadkovi area.

more ...

17. METHOD DESYKATSIYI seed soy seeding

Method desykatsiyi seed crops including soybean processing desiccant -based active ingredient Dykvat . The treatment is carried out at sowing seed moisture 50-55%. more ...

18. METHOD FOR haploid barley anther culture IN VITRO

A method for producing haploid barley anther culture in vitro comprising culturing anthers on artificial nutrient medium and receipt of nyhkalusiv , embrioyidivta plants regeneration . Yakheleutvoryuyuchyy component artificial culture medium using natural starch mutants kukurudzyae of amylose . more ...

19. Way to combat cereal annual weeds on crops of millet

The way to combat annual grass weeds on crops of millet include the use of herbicides Prymekstrahold . more

20. Way to protect east cereals against diseases LEAVES

Method of protection of stairs cereals against diseases lystyanalezhyt to agriculture , such as crop tavrlyuchaye pre-treatment of seed protectants . more ...

21. Rhizogeny regenerated pea (PISUM SATIVUM L.) IN VITRO AND ADAPTATION them in soil

Rhizogeny regeneration of pea (Pisum sativum L.) in vitro and adapting them to the ground , including morphogenesis in cultures kalusnyh peas rhizogeny regeneration on special nutrient media , behavior rehenerantnyh plants in greenhouses , and get regenerated with high rhizogeny and adaptation of these plants in the soil. more ...

22. METHOD FOR INCREASING OUTPUT - regenerated green plants in barley anther culture IN VITRO

Method of increasing the yield of green plants regeneration barley kulturipylyakivin vitro comprising culturing anthers on artificial nutrient medium and obtaining from them kalusiv , embryos and plants regeneration . As gelling component artificial culture medium using corn starch, natural mutant su2.

more ...

23. Way to improve the yield of winter crops sowing IN DIFFERENT corn silage

Method of increasing the yield of winter grain sowing different crops on corn silage includes integrated plant protection and Radical and foliar feeding . Complex mineral fertilizers are applied at seeding dose (NPK) 15, carried out in three sowing dates (10, 20, 30 September). more ...

24. How to create varieties of winter tritcale with increased technological parameters of grain quality

Method of creating ozymohotrytkale varieties with improved grain quality technological parameters including balancing fibrinous complex formed with vidselektovanoyi in different agro-climatic conditions together with sophisticated lines of the type and level of quality hybrid population. To improve the technological properties using the interaction contrast in quality gluten and dough proteolytic high and low amylase activity of components of the synthetic variety. more ...

25. PRODUCT GENETIC DIVERSITY OF SEED PLANTS

Product genetic diversity of seed plants include small transparent capacity , filled with seeds and placed on thick paper . Seed samples grouped by level of manifestation of signs placed in a folder - case made of cardboard lined with her usual transparent with paper files , which are attached polyethylene bags with seeds and label with the label . more ...

26. The method of manufacturing wheat bread

Method of producing wheat bread bezoparnym method involves making dough , its fermentation rozdilku , rozstoyuvannya tistovyh pieces and baking . As prescription component test used starch from mature grains of maize voskovydnoyi 1,0-3,0 % by weight of wheat flour. more ...

27. METHOD OF BREAD dietary protein-free

The method of protein-free diet include bread dough by mixing prescription ingredients ferment dough rozstoyuvannya formed tistovyh pieces and baking. As a main component of a prescription product used starch from maize mature zernavoskovydnoyi in 75,0-85,0 % of the total weight prescription ingredients. more ...

28. The method of manufacturing sugar cookies

Method of manufacturing sugar cookies , which includes preparing an emulsion of milk products, invert syrup , sugar, egg products or phosphatides , solution baking powder, margarine or butter, adding to the emulsion a mixture of wheat and corn flour, kneading , shaping and baking finished products , both prescription components used flour dough with mature waxy maize grain in 15-45% of the total weight prescription ingredients.

more ...

29. Food sputtered film- COVER

Food film- deposition coating that consists of plivkoutvoryuvacha and plasticizer , both plivkoutvoryuvach used water-soluble polysaccharide extracts of mature corn sweet corn , uparenny to humidity 74 %, and as a plasticizer - glycerol at a ratio of 2:1 mixture components . more ...

30. METHOD FOR DETERMINATION OF STARCH beans sweet corn

Method for determination of starch content in corn sweet corn , including hydrolysis test mature grinding grain with a weak solution of hydrochloric acid hydrolyzate lighting solution fosfornovolframovoyi acid hydrolyzate filter and measure it angle of rotation of the plane of polarized light , and the mature grain milled sample undergoes preliminary extraction fivefold volume of water at 30 ° C for one hour , after which the aqueous phase was removed , and the resulting precipitate was washed with water, dried overnight at 50 ° C and then used for the polarimetric determination of starch. more ...

31. METHOD FOR DETERMINING chlorophyll content in winter wheat leaves

Method for determination of chlorophyll content in leaves of winter wheat , which includes scanning the leaf blade plants on a standard scanner selection in an image is an image of leaf lamina by the method of N. Otsu and the estimate of the total chlorophyll content , and chlorophyll content measured by the intensity of the green color developed using non-linear regression equation of $y = a + bhs$, using a specially created computer program . more ...

32. METHOD FOR CREATING ARTIFICIAL SELECTION FOR INFECTIOUS BACKGROUND CORN for resistance to Fusarium affected stem rot

A method of creating artificial infectious background for breeding maize for resistance to stem rot includes fusariose fluctuations sized spots of damaged tissue interstices , a preliminary assessment of the data set , which is performed by calculating the ratio between the volume of damaged tissue interstitial volume and interstitial tissue only a percentage and includes forming a clear differentiation of the material and the identification of the basis of sources of resistance to stem rot fusariose . more ...

33. METHOD FOR CLASSIFICATION OF SAMPLES gene pool of wheat for quantitative characteristics

The method of classification of samples for the gene pool of wheat quantitative characteristics include determination of quantitative characteristics of the gene pool of samples and their classification according to a specific pattern . By way of changing the process of converting data : calculation reduced to the standard value of quantitative trait defined as the quotient of the value obtained for the sample on to basic standard, calculate the average , reduced to standard quantitative trait values \bar{x} , determine the classification scores of the sample by comparing the reduced to the standard value of the ballroom value standard.

more ...

34. METHOD FOR LONG-TERM PRESERVATION cuttings of vegetables and fruits

A method for long-term storage of cuttings of vegetables and fruits including preservation of frozen samples at the temperature of liquid nitrogen. In this way increase the volume of the working chamber for freezing cuttings of vegetables and fruits to 2 liters and reduce the temperature gradient . Cooling rate with the change . more ...

35. Way to increase yields of winter grain crops NEPAROVYH predecessor

Method of improving yield of winter crops on neparovyh predecessors include fertilizer during the planting, Radical and foliar feeding . Complex fertilizers are introduced to the main entry in doziN60R60K60po steam predecessors. more ...

36. METHOD stimulation of seed crop productivity

Method of increasing seed crop productivity include pre-treatment of seeds along with seeds protruyuvannyam.Obrobku planned exercise solution, which includes growth regulator "Activoplant" , which is used at any stage of plant development . more ...

37. Way to improve productivity of spring cereals

Method of increasing yield of spring cereals involves making complex fertilizers during autumn plowing in one step on a background of minimal crop protection against diseases, pests and weeds. more ...

38. Way to increase yield of spring triticales

Method of increasing yield of spring triticales relates to the field of agriculture and can be used in

crop and seed cereal - new spring tritcale . more ...

39. Way to improve the viability of seed crops by freezing

Method of improving the viability of the seed crop by freezing , in which samples of seeds are placed in conditions of negative temperature -20°C , giving increasing similarity, germination energy and reduce the degree of infestation pathogens storage. more ...

40. METHOD FOR IDENTIFICATION Resistant to lodging srednerosloe biotypes of spring durum wheat

Method of identifying biotypes resistant to lodging hard spring wheat , which evaluate the source material for the anatomical features of the second lower stem internodes . Evaluation is done by counting the number of round - vascular bundles vascular parenchyma for differentiation and identification of source material on this basis srednerosloe biotypes with high resistance to lodging . more ...

41. APPLICATION FOR ACCELERATED GROWTH REGULATORS seed multiplication of spring cereals

How to use growth regulators " BIOLan ", " Biosil " and " Endofit " for accelerated multiplication of seeds of spring cereals in tank mixtures with herbicides. Seeds of spring wheat treated before sowing , or in the case of spring barley other than seed treatment is carried out spraying of vegetating plants in the phase of tillering - early access to the handset. more ...

42. APPLICATION OF COMPLEX Chelated micronutrient " reaction " to accelerate breeding of spring cereals

How to use complex chelated micronutrients " Jets " for rapid multiplication of spring cereals in tank mixtures with herbicides. Growing plants wheat and barley sprayed in the phase of tillering

- early access to the handset. more ...

43. METHOD OF ASSESSMENT breeding material SUNFLOWER by area leaf area in different phases of plant development

Assessment method of breeding material sunflower leaf surface area in different phases of plant development involves measuring the linear dimensions of the package ID and account number of leaves. In phase germ layers measured area of the 3rd leaf from the bottom , in a phase plug - 6th leaf in the budding phase - 12 leaf stage to flowering and ripening - 20th leaf. Calculation of leaf area - indentifikatora conducted by the formula : $S = 20,241 - 10,0233 * L1 + 9,4239 * L2 + 0,2466 * L12 + 0,3163 * L22 + 0,1379 * L1 * L2$), where : S - leaf area ; L1 - length of leaf ; L2 - width of the sheet. The total area of leaf surface layers are as follows : $Sr = k * S * N$, Where to : Sr - total area of leaf area of plants in a particular phase of development ; k - share package- id in the general area of leaves in a particular phase of development: Phase plug for k = 0.97 , for the budding phase k = 0,84; flowering phase for k = 0,84 and maturation k = 0,82; S - area of the leaf -identifier in a particular phase of development ; N - number of leaves formed in a specific phase development. more ...

44. Way to deal with weeds in maize crops in PISLYASHODOVYY PERIOD

A method of controlling weeds in crops of maize pisyashodovyy period includes the use of tank mixtures of herbicides Prymekstrahold and Milagro in the phase of 3-5 leaves primary culture. more ...

45. Way to improve yield of wheat SOFT WINTER IN THE EAST -steppe UKRAINE

Method of increasing the yield of winter soft wheat in the eastern steppes of Ukraine belongs to the field of agriculture and can be used in crop when grown soft winter wheat . more ...

46. Way to improve the yield of modern varieties of winter rye when grown AFTER THE ALTERNATIVE PRECURSORS

Method of increasing the yield of winter rye varieties when grown after alternative precursors include doposivne fertilizer , application of early spring feeding by merzlotalomu soil in combination with the integrated plant protection. Using modern high-yield varieties of winter rye in growing after alternative precursors such as winter rape , spring barley and soybeans. more ...

47. Oil for cooking products MAKING BY HIGH- IMPACT

Fat for the manufacture culinary products contain sunflower oil , which is characterized by a high content of oleic acid glycerides .

more ...

48. ACCELERATED METHOD FOR BREEDING WHEAT SEEDS SOFT WINTER IN THE EAST -steppe UKRAINE

The method of accelerated multiplication of seeds of soft winter wheat in the eastern steppes of Ukraine , which once used tape or solid seeding methods with reduced vid3 , 0 to 5.7 times normal seeding. more ...

49. METHOD OF ASSESSMENT sunflower inbred lines heat resistance of mature POLLEN

Assessment method sunflower inbred lines for heat resistance of mature pollen , in which the heating of pollen deposited monolayer on a glass slide , placed in a covered petri dish with moist filter paper at 50 ° C and 20 min exposure . , With further comparison of sustainability research and control pollen.

more ...

50. Way to improve the yield of winter rye AFTER predecessor Lucerne

Method of increasing the yield of winter rye after predecessor include alfalfa seed treatment before sowing . Fertilizers are applied basal recharge in the tillering stage or exit the tube . Then make herbicide in spring tillering stage . more ...

51. METHOD FOR CLASSIFICATION OF SUNFLOWER DESIGNS FOR PROTEIN CONTENT IN NUCLEUS OF SEEDS

The method of classification samples sunflower protein includes the determination of protein content in the nucleus of mature seed. Distribution of samples of sunflower performed according to the scale , composed of 9 classes (from class intervals) and corresponding points-assessments. more ...

52. Way of dealing with adult bedbugs HARMFULL turtle for sowing of spring cereals

The way to combat adult bedbug harmful shells on crops of spring cereals includes pre-treatment seed the tank with a mixture of insecticidal and fungicidal dressers . Seed treatment of these cultures carry drugs, which include imidacloprid . more ...

53. METHOD OF DETERMINING POTENTIAL NITROGENAZOT activity in the roots of plants of different genotypes varieties of crops grown UNDER LABORATORY AND Vegetation experiments as a way AZOTFIKSUVALNOHO EVALUATION OF POTENTIAL varieties of crops

Application of the method for determining the potential nitrogenazoty activity on the roots of plants of different genotypes varieties of crops grown under laboratory conditions and vegetation experiments as a method for evaluating potential azotfiksuvalnoho varieties of crops .

more ...

54. Oil for cooking products MAKING deep fried

Fat for the manufacture culinary products , fried in oil , consisting of vegetable oil. As used cooking oil sunflower oil containing glycerides of stearic acid 11-12 %.

more ...

55. METHOD Determination of spring barley to pathogenic HELMINTOSPORIOZU

Assessment method of resistance of spring barley to pathogenic helmintosporiozuvklyuchaye definition of stability in terms of disease prevalence and distribution of resistance to using the standard deviation σ of the average value for the experiment. Spend extra rannoosinniy seed in the field. more ...

56. METHOD OF SOYBEAN crop protection in pre-emergence weed PERIOD

Way to protect crops from weeds in soybean pre-emergence period includes the use of herbicide " Fabian ". Herbicide " Fabian " is applied in pre-emergence application rate between 100-120 g / ha. more ...

57. METHOD OF SOYBEAN crop protection from weeds in PISLYASHODOVYY PERIOD

Way to protect crops from weeds in soybeans pislyashodovyy period includes the use of tank mixtures of herbicides . Use tank mixtures of herbicides " Bazahran " (1,20-1,30 l / ha), " Harmony " (3.0-4.0 g / ha) and " Fyuzylad forte " (0.7-0.9 l / ha) with different mechanisms of action on weeds . more ...

58. METHOD OF MODERN increase the yield of corn hybrids

Method of increasing the yield of modern corn cultivation technology subject on the background of an integrated system of plant protection. We use modern high-performance hybrid maize in combination with different fertilization systems : manure 30 t / ha manure or 30 t / ha + (N30P30K30), or manure 30 t / ha : + (N60R60K60), depending on the level of enterprises of different ownership of material technical resources.

more ...

59. METHOD FOR PROTECTION OF SOYBEAN Sowing cereal and dicotyledonous weeds

Way to protect soybean crops from cereal and dicotyledonous weeds involves the use of herbicides on the basis of acetochlor and imazethapyr . Herbicides based on acetochlor and imazethapyr applied in tank mix application rate in half (1.0-1.5 and 0.4-0.5 l / ha). more ...

60. AGING PROCESS SIMULATION The seeds legume family (FABACEAE)

A method of modeling aging in seed legume family (Fabaceae) includes holding seed samples in sealed containers (glass bottles , packs of foil) in an incubator in high temperatures for a period of time , followed by determination of sowing seeds of properties according to standard methods. more ...

61. METHOD OF ASSESSMENT inbred lines sunflower seed embryo heat resistance

Assessment method inbred lines of sunflower seeds for heat-resistant germs , including an artificial thermal effects on the seeds of the subsequent comparison of warmed and control seed germination percentage and root length p'yatydobovyh seedlings , and seeds by heating ,

pre- moistening in water for 24 hours . at room temperature (20 ± 1 ° C), at a temperature of 47 ° C to 60 ° C and exposure from 5 to 20 min. , with further distribution lines of heat resistance. more ...

62. METHOD FOR CLASSIFICATION OF SAMPLES pea protein content in seeds

A method for classification of samples of pea protein in seeds , including the determination of protein in mature seeds , and by sharing samples of peas , according to scale, composed of 9 classes (from class intervals) and corresponding points- assessments.

more ...

63. METHOD FOR CLASSIFICATION OF SAMPLES OF SOY PROTEIN CONTENT AND OIL SEEDS IN

Method for classification of samples of soy protein and oils in seeds , including the determination of protein and oil in mature seeds , and soy is the distribution of samples , according to the scale, composed of 9 classes (from class intervals) and corresponding points- assessments. more ...

64. METHOD OF SELECTION SELECTION IN SUNFLOWER

Method of selection in breeding sunflower genotypes carrier Rf1 gene using SSR- marker includes differentiation , reducing lines from lines - fixing and sterile lines, electrophoretic analysis of the amplification products of DNA microsatellite locus ORS511 genome and identification of sunflower lines , reducing the presence of DNA corresponding spectrum alleles. more ...

66. Way to improve the yield of winter rye

Method of increasing the yield of winter rye protruyennya involves the use of seed and application of herbicides . Complex mineral fertilizer fed to the main entry and Radical feeding. Winter rye planted after alfalfa predecessor .

more ...

65. Way to improve the yield of winter tritcale AFTER Lucerne

Method of increasing the yield of winter tritcale and alfalfa after pre-sowing involves making complex fertilizers during planting . Then carry Radical and foliar nitrogen fertilization on the background and integrated crop protection . This winter tritcale grown after alfalfa predecessor .
more ...

67. PROCESS IMPROVEMENT AFTER WINTER WHEAT yield of perennial grasses

Method of increasing the yield of winter wheat after perennial grasses includes basic introduction of complex fertilizers . Then carry Radical spring dressing nitrogen fertilizer and herbicide use in the phase of tillering . As the main fertilizer used complex mineral fertilizers and perform a one-time Radical feeding. more ...

69. Simple way to improve productivity

Method of increasing the yield of millet include the use of conventional technology for growing millet. Thus the interaction of crop rotation background, varietal composition and row method of sowing with fertilizer. more ...

68. Way to assess the quantitative characteristics of sunflower CART

A method for quantitative evaluation of sunflower characteristics basket includes recording parameters basket. In field conditions during maturation obtained images of the sample baskets overlay stencil triangle 36 ° with linear scales, image analysis is performed by counting the number of genetic (n1) and counter (n2) helices that cross sector perimeter basket pattern outlined by the parties , followed by calculation of flowers in a basket and carried out at a convenient time for the experimenter .

more ...

70. Way to improve the yield of spring barley varieties intensively

Method of increasing the yield of intensive varieties of spring barley varieties including system selection , choice of precursor supply and backgrounds in the technology of cultivation. Use modern intensive spring barley varieties when grown after predecessors: soybean, corn and sugar beet , with different backgrounds Power aftereffect manure 30 t / ha or aftereffect manure 30 t / ha + N30P30K30, or aftereffect manure 30 t / ha + N60R60K60 , depending on the level of enterprises of different ownership forms of material and technical resources. more ...

71. METHOD OF MAKING INDUSTRIAL VARIETIES hexaploid homolog durum wheat and spelled

Method of creating industrial сортівгексаплоїднихгомологів durum wheat and spelled breeding involves syntezamfiployidivabo існуючихгексаплоїднихамфіплоїдів or crossing існуючихгексаплоїднихамфіплоїдівіз representatives genetic diversity solid pshenytsi.Pidvyschennya rivnyaployidnostisortiv durum wheat and spelled zhenomnoyuformuloyu AAVV to оптимальногогексаплоїдногорівня ($2n = 42$) is due to the introduction into their genome dodatkovyhsuhbenomivA1i A2ta V1i B2, which originate from the same or different parent forms. more ...

72. METHOD FOR DETERMINATION OF STABILITY OF WINTER WHEAT SOFT to pathogens Fusarium affected root rot

Method of estimation of stability of soft winter wheat to root rot pathogens fusariose includes the definition of sustainability in terms of disease prevalence and distribution sortobraztsov by group stability by calculating the standard deviation from the mean value s in experiment X sir. Early spring seeding in the second decade of March - III in field provides assessment material for resistance to root rot pathogens fusariose In their best manifestation , obtaining reliable data and significantly reduces the test. more ...

73. METHOD FOR DETERMINATION OF QUALITY IN GENERAL tritcale grain analyzer " YnfraLYuM FT -10"

Method for determining quality in the whole grain tritcale analyzer " YnfraLYuM FT -10 " includes training sample sets for calibration , research generated a set of standard physico-chemical methods of analysis, removing transmission spectra of samples, a model for the calibration and verification of capacity resulting model. For each indicator as tritcale grain set individual parameters for constructing the model calibration analyzer. more ...

74. Spring wheat WAY IN THE EASTERN UKRAINE -steppe

The method of cultivation of spring wheat in eastern steppes of Ukraine includes selection of varieties, predecessor, tillage , fertilization , crop, plant protection and harvesting . Using modern high- intensity varieties of spring wheat , place culture after different predecessors, once made $\square\square$ and basic soil complex mineral fertilizer NPK fertilizer or its equivalent , conduct basic soil to a depth of 20-22 cm, carried seeding seeding rate of 5.0 million pcs. / ha applied integrated plant protection, which provides seed treatment before sowing , application of herbicides , fungicides, insecticides and harvest direct combine harvesting . more ...

75. METHOD OF GROWING PEAS BEZLYSTOCHKOVOHO morphotypes IN THE EASTERN UKRAINE -steppe

Method of growing horohubezlystochkovohov umovahShidnoho steppes of Ukraine includes choice of variety predecessor, tillage , fertilization , crop, plant protection and harvesting . Vykorystovuyutsuchasni highly intensive varieties of peas bezlystochkovoho morphotypes ,

providing power optimization level . Planting rate is determined at the optimal time. Apply integrated plant protection and harvesting direct combine harvesting to enable the farmers of different ownership forms , depending on the provision of material and technical resources , to choose an appropriate system of fertilizer to produce competitive yields peas mustachioed types in the eastern steppes of Ukraine . more ...

76. RAPID ASSESSMENT OF QUALITY OF CREATION sterile ANALOGUES M-type and analogue - reductant fertility CORN POLLEN

Rapid assessment of the quality control of sterile lines create unique M- type and analogue - reducing agents include corn pollen fertility analysis on typical compared to the original starting line. Use of biotechnological methods of molecular genetic markers - Analysis of microsatellite polymorphism loci (Simple Sequence Repeats), which is held by the designated SSR- primers to significantly reduce the time for evaluation of lines on and off depending on the growing season of plants and provide an objective picture of the genome variability of maize. more ...

77. Way of healing sowing of winter crops

Method of recovery of winter crops including Pre- seed cultivation . Apply sharing growth regulator mars EL dose of 0.2 l / t and microwave electromagnetic fields of extremely high frequency (UHF MHVEP) using 1.8 kW / kg with 15 sec exposure . more ...

78. Way to improve productivity maternal form CORN

Method of increasing the yield of the parent form includes corn crop interlaced maternal and paternal forms in a ratio of 12:4 . Use parental forms of modern high-performance hybrid maize intensive type parent (male) form with the number of lateral branches panicles 26-35 pcs. with great ability pylkoutvoryuyuchoyu for pollination of plants more parent form and increase productivity, and significantly increased total yield seeds for crops parent form. more ...

□

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□

Utility models

1.

piston press

A piston press comprises a frame, a drive, the body of said press, a driving shaft, a piston and a cylinder with interchangeable matrices. The frame is

made of a steel sheet as a rectangular box. An electrical drive with a voltage-dropping reducer and the body of said press, comprising the driving shaft and piston, connected therebetween, are arranged on the frame.

The piston in the extreme points of trajectory thereof acts on microswitchs and carries out a stoppage and changes in the phases of an electric motor.

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2.

HEATING DEVICE

A heating device includes a combustion chamber, smoke flue, opening for fuel loading, device for air supply to combustion chamber that in the upper back section includes an additional chamber that collects excess of gas combustion and provides absence of puff effect. The device for air supply to combustion chamber looks like a tube and is placed on the door for loading fuel in front of the device, fan with electric motor.

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3.

THRESHER THRESHING CORN COBS TCC-3,5

Thresher threshing corn cobs is a frame with wheels and support columns, the hopper, the threshing chamber, grain cleaning system, drive and unloading mechanism. Threshing chamber has a drum with pegs. Thus the pins are executed in a trapezoid shape and a lower side faces facing the drum and are arranged on the surface thereof in a spiral. Grid deck performed with

the possibility of opening in the upper end portion positioned in a certain way the guide plates and control plate. Cleaning system consists of grain mill with trellis and aspiration chamber, which are used as actuators to ensure that cleaning calibration.

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4.

METHOD FOR CONTROLLING BEETLES BRASSICA FLEA BEETLES ON CROPS OF SPRING OILSEED BRASSICA CROPS

A method for controlling beetles brassica flea beetles on crops of spring oilseed brassica crops, includes pre-sowing seed treatment preparations, which include imidacloprid or thiamethoxam. Additionally protect seedlings with insecticide spraying method group of synthetic pyrethroids or other insecticides

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5.

METHOD FOR ACCELERATED DETERMINATION OF RESISTANCE OF SUNFLOWER SAMPLES OF BROOMRAPE (OROBANCHE CUMANAWALLR.)

A method for accelerated determination of resistance of sunflower samples to the broomrape (Or obanche Cumana Wallr.) comprising obtaining sunflower seedlings and determining the broomrape resistance. Differentiation of resistant and susceptible samples is carried out on

13

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16

day seedlings according to the activity of the enzyme catalase

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[.....](#)

6.

METHOD FOR CREATING INBRED LINES OF ONION BULB

A method for creating inbred lines of onion bulb comprises obtaining bulbs of F1 hybrids and inbred lines. Each of the hybrid bulbs is subjected to dividing by the bottom into 30-50 fragments, which are grown and regenerated on a nutrient medium

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the obtained regenerant plants are freely intercrossed between each other.

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7.

METHOD FOR RAISING GERMINATION CAPACITY OF BULB ONION SEED WHILE STORING THEREOF

A method for raising the germination capacity of bulb onion seed while storing thereof includes storing thereof at a temperature of 5-8°C and determining the germination capacity. The seed with high content of oleic acid glycerids in oil are used for storing

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8.

METHOD FOR ASSESSING BREEDING MATERIAL OF BULB ONION FOR STORAGEABILITY

A method for assessing breeding material of bulb onion for storageability comprises analysis of biochemical composition of bulbs. The assessment of keeping capacity of bulbs is carried out by means of determining the content of sucrose therein

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