Achille Schiavone

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6229352/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	How information affects consumers' purchase intention and willingness to pay for poultry farmed with insect-based meal and live insects. Journal of Insects As Food and Feed, 2022, 8, 197-206.	2.1	18
2	Poultry biodiversity for alternative farming systems development. E3S Web of Conferences, 2022, 335, 00004.	0.2	4
3	Carcass Yields and Meat Composition of Male and Female Italian Slow-Growing Chicken Breeds: Bianca di Saluzzo and Bionda Piemontese. Animals, 2022, 12, 406.	1.0	10
4	Nutrigenomics in Animal Feeding: Digital Gene Expression Analysis in Poultry Fed Tenebrio molitor Larvae Meal. Poultry, 2022, 1, 14-29.	0.5	1
5	Effects of a Functional Protein on Gut Local Immune Response and Morphometrical Indices in Poultry. Journal of Comparative Pathology, 2022, 191, 61.	0.1	0
6	Effects of Agro-Industrial Byproduct-Based Diets on the Growth Performance, Digestibility, Nutritional and Microbiota Composition of Mealworm (Tenebrio molitor L.). Insects, 2022, 13, 323.	1.0	12
7	Feed Preference, Daily Intake, and Laying Performance of Captive-Born Sardinian Partridges (Alectoris) Tj ETQq1 Raw Feed Material with Diet. Agriculture (Switzerland), 2022, 12, 642.	1 0.78431 1.4	14 rgBT /Ove 1
8	Taurine supplementation in plant-based diets for juvenile rainbow trout (Oncorhynchus mykiss): Effects on growth performance, whole body composition, and histomorphological features. Animal Feed Science and Technology, 2022, 289, 115314.	1.1	5
9	Hermetia illucens meal inclusion in low-fishmeal diets for rainbow trout (Oncorhynchus mykiss): Effects on the growth performance, nutrient digestibility coefficients, selected gut health traits, and health status indices. Animal Feed Science and Technology, 2022, 290, 115341.	1.1	13
10	Evaluation of Two Equations for Prediction of Digestible Energy in Mixed Feeds and Diets for Horses. Animals, 2022, 12, 1628.	1.0	1
11	Rooster sperm pellet cryopreservation protocols: effect of step variations on the qualitative parameters of post-thawed sperm. Italian Journal of Animal Science, 2022, 21, 1010-1020.	0.8	0
12	Effects of <i>Tenebrio molitor</i> larvae meal inclusion in rainbow trout feed: myogenesis-related gene expression and histomorphological features. Italian Journal of Animal Science, 2021, 20, 1211-1221.	0.8	7
13	Overview of Native Chicken Breeds in Italy: Conservation Status and Rearing Systems in Use. Animals, 2021, 11, 490.	1.0	20
14	Overview of Native Chicken Breeds in Italy: Small Scale Production and Marketing. Animals, 2021, 11, 629.	1.0	22
15	Dietary inclusion of a partially defatted black soldier fly (Hermetia illucens) larva meal in low fishmeal-based diets for rainbow trout (Oncorhynchus mykiss). Journal of Animal Science and Biotechnology, 2021, 12, 50.	2.1	38
16	Insects as Feed for Farmed Poultry: Are Italian Consumers Ready to Embrace This Innovation?. Insects, 2021, 12, 435.	1.0	23
17	Excreta quality and digestive function of singly versus couple caged Sardinian partridges (Alectoris) Tj ETQq1 1 Journal of Animal Physiology and Animal Nutrition, 2021, , .	0.784314 1.0	rgBT /Overlo 1
18	Modified Black Soldier Fly Larva Fat in Broiler Diet: Effects on Performance, Carcass Traits, Blood Parameters, Histomorphological Features and Gut Microbiota. Animals, 2021, 11, 1837.	1.0	17

#	Article	IF	CITATIONS
19	In vivo and in vitro Digestibility of an Extruded Complete Dog Food Containing Black Soldier Fly (Hermetia illucens) Larvae Meal as Protein Source. Frontiers in Veterinary Science, 2021, 8, 653411.	0.9	20
20	Black soldier fly and yellow mealworm live larvae for broiler chickens: Effects on bird performance and health status. Journal of Animal Physiology and Animal Nutrition, 2021, 105, 10-18.	1.0	26
21	Optimization of a Protocol for the Cryopreservation of Sperm in Pellets for the Common Pheasant (Phasianus colchicus mongolicus). Animals, 2021, 11, 2472.	1.0	4
22	Genetic Diversity of 17 Autochthonous Italian Chicken Breeds and Their Extinction Risk Status. Frontiers in Genetics, 2021, 12, 715656.	1.1	6
23	Black soldier fly larva in Muscovy duck diets: effects on duck growth, carcass property, and meat quality. Poultry Science, 2021, 100, 101303.	1.5	16
24	Effect of Insect Live Larvae as Environmental Enrichment on Poultry Gut Health: Gut Mucin Composition, Microbiota and Local Immune Response Evaluation. Animals, 2021, 11, 2819.	1.0	16
25	From the Semen Collection Method to the Hatchlings: The Use of Cryopreserved Sperm from Pheasants Fed an Antioxidant-Enriched Diet. Animals, 2021, 11, 2624.	1.0	7
26	Odd- and Branched-Chain Fatty Acids in Lamb Meat as Potential Indicators of Fattening Diet Characteristics. Foods, 2021, 10, 77.	1.9	6
27	Italian semen cryobank of autochthonous chicken and turkey breeds: a tool for preserving genetic biodiversity. Italian Journal of Animal Science, 2021, 20, 2022-2033.	0.8	12
28	Observations on the embryonic development of domestic meat-type guinea fowl (Numida meleagris). Italian Journal of Animal Science, 2021, 20, 2034-2040.	0.8	0
29	Protective Effects of New Antioxidants in OTA-Treated Chicken Kidney. Medical Sciences Forum, 2021, 2, 18.	0.5	1
30	Yellow mealworm (<i>Tenebrio molitor</i> L.) larvae inclusion in diets for free-range chickens: effects on meat quality and fatty acid profile. Renewable Agriculture and Food Systems, 2020, 35, 571-578.	0.8	27
31	First insights on Black Soldier Fly (Hermetia illucens L.) larvae meal dietary administration in Siberian sturgeon (Acipenser baerii Brandt) juveniles. Aquaculture, 2020, 515, 734539.	1.7	93
32	Yellow Mealworm Inclusion in Diets for Heavy-Size Broiler Chickens: Implications for Intestinal Microbiota and Mucin Dynamics. Animals, 2020, 10, 1909.	1.0	7
33	State-of-the-Art of the Nutritional Alternatives to the Use of Antibiotics in Humans and Monogastric Animals. Animals, 2020, 10, 2199.	1.0	18
34	Antimicrobial Effects of Black Soldier Fly and Yellow Mealworm Fats and Their Impact on Gut Microbiota of Growing Rabbits. Animals, 2020, 10, 1292.	1.0	30
35	Validation of the Turkey Semen Cryopreservation by Evaluating the Effect of Two Diluents and the Inseminating Doses. Animals, 2020, 10, 1329.	1.0	8
36	Effects of Feeding Dried Fruit Pomaces as Additional Fibre-Phenolic Compound on Meat Quality, Blood Chemistry and Redox Status of Broilers. Animals, 2020, 10, 1968.	1.0	5

#	Article	IF	CITATIONS
37	Protein hunger of the feed sector: the alternatives offered by the plant world. Italian Journal of Animal Science, 2020, 19, 1204-1225.	0.8	37
38	Genome-Wide SNP Analysis Reveals the Population Structure and the Conservation Status of 23 Italian Chicken Breeds. Animals, 2020, 10, 1441.	1.0	28
39	Distribution and consistency of Ancona and Livorno poultry breed in Central Italy. Italian Journal of Animal Science, 2020, 19, 1297-1303.	0.8	6
40	The effect of dietary supplementation with globin and sprayâ€dried porcine plasma on performance, digestibility and histomorphological traits in broiler chickens. Journal of Animal Physiology and Animal Nutrition, 2020, 105 Suppl 2, 42-51.	1.0	4
41	Effect of N-Methylacetamide Concentration and Thawing Rate on Chicken Sperm Quality after Cryopreservation. Animals, 2020, 10, 824.	1.0	10
42	Performance of Slow-Growing Male Muscovy Ducks Exposed to Different Dietary Levels of Quebracho Tannin. Animals, 2020, 10, 979.	1.0	9
43	Growth Performance Analysis of Two Italian Slow-Growing Chicken Breeds: Bianca di Saluzzo and Bionda Piemontese. Animals, 2020, 10, 969.	1.0	21
44	Effects of dietary Hermetia illucens meal inclusion on cecal microbiota and small intestinal mucin dynamics and infiltration with immune cells of weaned piglets. Journal of Animal Science and Biotechnology, 2020, 11, 64.	2.1	20
45	Could Dietary Black Soldier Fly Meal Inclusion Affect the Liver and Intestinal Histological Traits and the Oxidative Stress Biomarkers of Siberian Sturgeon (Acipenser baerii) Juveniles?. Animals, 2020, 10, 155.	1.0	34
46	Black soldier fly and gut health in broiler chickens: insights into the relationship between cecal microbiota and intestinal mucin composition. Journal of Animal Science and Biotechnology, 2020, 11, 11.	2.1	56
47	Partially Defatted Tenebrio molitor Larva Meal in Diets for Grow-Out Rainbow Trout, Oncorhynchus mykiss (Walbaum): Effects on Growth Performance, Diet Digestibility and Metabolic Responses. Animals, 2020, 10, 229.	1.0	52
48	Effects of Dietary Quebracho Tannin on Performance Traits and Parasite Load in an Italian Slow-Growing Chicken (White Livorno Breed). Animals, 2020, 10, 684.	1.0	13
49	Insect and fish by-products as sustainable alternatives to conventional animal proteins in animal nutrition. Italian Journal of Animal Science, 2020, 19, 360-372.	0.8	138
50	Investigation of hallmarks of carbonyl stress and formation of end products in feline chronic kidney disease as markers of uraemic toxins. Journal of Feline Medicine and Surgery, 2019, 21, 465-474.	0.6	9
51	Bilberry pomace in rabbit nutrition: effects on growth performance, apparent digestibility, caecal traits, bacterial community and antioxidant status. Animal, 2019, 13, 53-63.	1.3	14
52	Quality and Consumer Acceptance of Meat from Rabbits Fed Diets in Which Soybean Oil is Replaced with Black Soldier Fly and Yellow Mealworm Fats. Animals, 2019, 9, 629.	1.0	25
53	Effect of dietary supplementation with insect fats on growth performance, digestive efficiency and health of rabbits. Journal of Animal Science and Biotechnology, 2019, 10, 4.	2.1	56
54	Effects of the Dietary Inclusion of Partially Defatted Black Soldier Fly (Hermetia illucens) Meal on the Blood Chemistry and Tissue (Spleen, Liver, Thymus, and Bursa of Fabricius) Histology of Muscovy Ducks (Cairina moschata domestica). Animals, 2019, 9, 307.	1.0	31

#	Article	IF	CITATIONS
55	Black soldier fly defatted meal as a dietary protein source for broiler chickens: effects on carcass traits, breast meat quality and safety. Animal, 2019, 13, 2397-2405.	1.3	87
56	Gut Microbiota and Mucin Composition in Female Broiler Chickens Fed Diets including Yellow Mealworm (Tenebrio molitor, L.). Animals, 2019, 9, 213.	1.0	48
57	Nutritional effects of the dietary inclusion of partially defatted Hermetia illucens larva meal in Muscovy duck. Journal of Animal Science and Biotechnology, 2019, 10, 37.	2.1	39
58	Animals Fed Insect-Based Diets: State-of-the-Art on Digestibility, Performance and Product Quality. Animals, 2019, 9, 170.	1.0	146
59	Meat Quality and Sensory Traits of Finisher Broiler Chickens Fed with Black Soldier Fly (Hermetia) Tj ETQq1 1 0.7	'84314 rgB 1.0	T <u>/</u> gverlock
60	Effect of dietary globin, a natural emulsifier, on the growth performance and digestive efficiency of broiler chickens. Italian Journal of Animal Science, 2019, 18, 530-537.	0.8	11
61	Partially defatted black soldier fly larva meal inclusion in piglet diets: effects on the growth performance, nutrient digestibility, blood profile, gut morphology and histological features. Journal of Animal Science and Biotechnology, 2019, 10, 12.	2.1	113
62	Effects of probiotic supplementation on milk production, blood metabolite profile and enzyme activities of ewes during lactation. Italian Journal of Animal Science, 2019, 18, 134-139.	0.8	15
63	Effects of an intravaginal GnRH analogue administration on rabbit reproductive parameters and welfare. Theriogenology, 2019, 125, 122-128.	0.9	6
64	Quality and Consumer Acceptance of Products from Insect-Fed Animals. , 2019, , 73-86.		4
65	Black soldier fly larva fat inclusion in finisher broiler chicken diet as an alternative fat source. Animal, 2018, 12, 2032-2039.	1.3	122
66	Yellow mealworm larvae (Tenebrio molitor) inclusion in diets for male broiler chickens: effects on growth performance, gut morphology, and histological findings. Poultry Science, 2018, 97, 540-548.	1.5	100
67	Modulation of intestinal microbiota, morphology and mucin composition by dietary insect meal inclusion in free-range chickens. BMC Veterinary Research, 2018, 14, 383.	0.7	89
68	Cross-contamination in canine and feline dietetic limited-antigen wet diets. BMC Veterinary Research, 2018, 14, 283.	0.7	4
69	Protein composition and digestibility of black soldier fly larvae in broiler chickens revisited according to the recent nitrogen-protein conversion ratio. Journal of Insects As Food and Feed, 2018, 4, 171-177.	2.1	17
70	Influence of Hermetia illucens meal dietary inclusion on the histological traits, gut mucin composition and the oxidative stress biomarkers in rainbow trout (Oncorhynchus mykiss). Aquaculture, 2018, 496, 50-57.	1.7	94
71	Black soldier fly defatted meal as a dietary protein source for broiler chickens: Effects on growth performance, blood traits, gut morphology and histological features. Journal of Animal Science and Biotechnology, 2018, 9, 49.	2.1	140
72	Effect of rearing substrate on growth performance, waste reduction efficiency and chemical composition of black soldier fly (<scp><i>Hermetia illucens</i></scp>) larvae. Journal of the Science of Food and Agriculture, 2018, 98, 5776-5784.	1.7	300

#	Article	IF	CITATIONS
73	Effect of rearing substrate on growth performance, waste reduction efficiency and chemical composition of black soldier fly (Hermetia illucens) larvae. , 2018, 98, 5776.		1
74	Effects of dietary alfalfa flavonoids on the performance, meat quality and lipid oxidation of growing rabbits. Asian-Australasian Journal of Animal Sciences, 2018, 31, 270-277.	2.4	16
75	Odd- and branched-chain fatty acids in goat milk as indicators of the diet composition. Italian Journal of Animal Science, 2017, 16, 68-74.	0.8	16
76	Distinguishing industrial meat from that of indigenous chickens with molecular markers. Poultry Science, 2017, 96, 2552-2561.	1.5	10
77	Bilberry pomace in growing rabbit diets: effects on quality traits of hind leg meat. Italian Journal of Animal Science, 2017, 16, 371-379.	0.8	9
78	Inclusion of <i>Hermetia illucens</i> larvae meal on rainbow trout (<i>Oncorhynchus mykiss</i>) feed: effect on sensory profile according to static and dynamic evaluations. Journal of the Science of Food and Agriculture, 2017, 97, 3402-3411.	1.7	82
79	Genomic and genetic variability of six chicken populations using single nucleotide polymorphism and copy number variants as markers. Animal, 2017, 11, 737-745.	1.3	33
80	Effects of yellow mealworm larvae (Tenebrio molitor) inclusion in diets for female broiler chickens: implications for animal health and gut histology. Animal Feed Science and Technology, 2017, 234, 253-263.	1.1	73
81	Nutritional value of a partially defatted and a highly defatted black soldier fly larvae (Hermetia) Tj ETQq1 1 0.7843 and apparent ileal amino acid digestibility. Journal of Animal Science and Biotechnology, 2017, 8, 51.	314 rgBT 2.1	Overlock 10 213
82	Partial or total replacement of soybean oil by black soldier fly larvae (<i>Hermetia illucens L.</i>) fat in broiler diets: effect on growth performances, feed-choice, blood traits, carcass characteristics and meat quality. Italian Journal of Animal Science, 2017, 16, 93-100.	0.8	181
83	Evaluation of the suitability of a partially defatted black soldier fly (Hermetia illucens L.) larvae meal as ingredient for rainbow trout (Oncorhynchus mykiss Walbaum) diets. Journal of Animal Science and Biotechnology, 2017, 8, 57.	2.1	276
84	An association between feather damaging behavior and corticosterone metabolite excretion in captive African grey parrots (<i>Psittacus erithacus</i>). PeerJ, 2016, 4, e2462.	0.9	21
85	Effects of dietary <i>Tenebrio molitor</i> meal inclusion in freeâ€range chickens. Journal of Animal Physiology and Animal Nutrition, 2016, 100, 1104-1112.	1.0	91
86	Feather picking in pet parrots: sensitive species, risk factor and ethological evidence. Italian Journal of Animal Science, 2016, 15, 473-480.	0.8	12
87	Effects of abrupt housing changes on the welfare of Piedmontese cows. Italian Journal of Animal Science, 2016, 15, 103-109.	0.8	10
88	Rabbit dietary supplementation with pale purple coneflower. 1. Effects on the reproductive performance and immune parameters of does. Animal, 2016, 10, 1101-1109.	1.3	13
89	Genetic variability of two Italian indigenous chicken breeds inferred from microsatellite marker analysis. British Poultry Science, 2016, 57, 435-443.	0.8	12
90	<i>Tenebrio Molitor</i> Meal in Rainbow Trout (<i>Oncorhynchus Mykiss</i>) Diets: Effects on Animal Performance, Nutrient Digestibility and Chemical Composition of Fillets. Italian Journal of Animal Science, 2015, 14, 4170.	0.8	154

#	Article	IF	CITATIONS
91	Effects of Verbascoside Supplemented Diets on Growth Performance, Blood Traits, Meat Quality, Lipid Oxidation and Histological Features in Broiler Chickens. Italian Journal of Animal Science, 2015, 14, 3712.	0.8	8
92	Effect of Different Dietary Levels of Rosemary (<i>Rosmarinus Officinalis</i>) and Yarrow (<i>Achillea Millefolium</i>) on the Growth Performance, Carcass Traits and Ileal Micro-biota of Broilers. Italian Journal of Animal Science, 2015, 14, 3930.	0.8	16
93	Effects of Feed Restriction and Diet Nutrient Density During Re-Alimentation on Growth Performance, Carcass Traits, Organ Weight, Blood Parameters and the Immune Response of Broilers. Italian Journal of Animal Science, 2015, 14, 4037.	0.8	18
94	Nutritional value of two insect larval meals (Tenebrio molitor and Hermetia illucens) for broiler chickens: Apparent nutrient digestibility, apparent ileal amino acid digestibility and apparent metabolizable energy. Animal Feed Science and Technology, 2015, 209, 211-218.	1.1	283
95	Cytotoxic effects of oxytetracycline residues in the bones of broiler chickens following therapeutic oral administration of a water formulation. Poultry Science, 2015, 94, 1979-1985.	1.5	37
96	Genetic traceability of two local chicken populations, Bianca di Saluzzo and Bionda Piemontese, versus some current commercial lines. Italian Journal of Agronomy, 2014, 9, 176.	0.4	4
97	Efficacy of dimethylglycine as a feed additive to improve broiler production. Livestock Science, 2014, 164, 81-86.	0.6	8
98	Feeding a diet contaminated with ochratoxin A for chickens at the maximum level recommended by the <scp>EU</scp> for poultry feeds (0.1Âmg/kg). 1. Effects on growth and slaughter performance, haematological and serum traits. Journal of Animal Physiology and Animal Nutrition, 2013, 97, 13-22.	1.0	32
99	Feeding a diet contaminated with ochratoxin A for broiler chickens at the maximum level recommended by the <scp>EU</scp> for poultry feeds (0.1Âmg/kg). 2. Effects on meat quality, oxidative stress, residues and histological traits. Journal of Animal Physiology and Animal Nutrition, 2013, 97, 23-31.	1.0	20
100	Effects of N,N-dimethylglycine sodium salt on apparent digestibility, vitamin E absorption, and serum proteins in broiler chickens fed a high- or low-fat diet. Poultry Science, 2013, 92, 1221-1226.	1.5	17
101	Adverse effects in broiler chickens fed a high lycopene concentration supplemented diet. Canadian Journal of Animal Science, 2013, 93, 231-241.	0.7	11
102	Effect of Genotype and Transport on Tonic Immobility and Heterophil/Lymphocyte Ratio in Two Local Italian Breeds and Isa Brown Hens Kept Under Free-Range Conditions. Italian Journal of Animal Science, 2013, 12, e78.	0.8	12
103	Egg enrichment with vitamins and trace minerals. , 2011, , 289-320.		8
104	A survey of ochratoxin A contamination in feeds and sera from organic and standard swine farms in northwest Italy. Journal of the Science of Food and Agriculture, 2010, 90, 1467-1472.	1.7	30
105	Acute phase proteins and heterophil:lymphocyte ratio in laying hens in different housing systems. Veterinary Record, 2010, 167, 749-751.	0.2	34
106	Dietary lipid sources and vitamin E affect fatty acid composition or lipid stability of breast meat from Muscovy duck. Canadian Journal of Animal Science, 2010, 90, 371-378.	0.7	16
107	Dietary lipid oxidation and vitamin E supplementation influence in vivo erythrocyte traits and postmortem leg muscle lipid oxidation in broiler chickens. Canadian Journal of Animal Science, 2010, 90, 197-202.	0.7	7
108	Egg quality and blood parameters of "Bianca di Saluzzo―and Isa Brown hens kept under free range conditions. Italian Journal of Animal Science, 2009, 8, 772-774.	0.8	8

#	Article	IF	CITATIONS
109	Effects of a Natural Extract of Chestnut Wood on Digestibility, Performance Traits, and Nitrogen Balance of Broiler Chicks. Poultry Science, 2008, 87, 521-527.	1.5	130
110	Steroid and β-adrenergic receptor modifications in target organs of broiler chickens fed with a diet containing β2-adrenergic agents. Food and Chemical Toxicology, 2008, 46, 2239-2243.	1.8	11
111	A survey on the occurrence of ochratoxin A in feeds and sera collected in conventional and organic poultry farms in Northern Italy. Italian Journal of Animal Science, 2008, 7, 495-503.	0.8	31
112	Wild trout responses to a stress experience following confinement conditions during the spawning season. Italian Journal of Animal Science, 2008, 7, 5-18.	0.8	0
113	Breast meat traits of Muscovy ducks fed on a microalga (<i>Crypthecodinium cohnii</i>) meal supplemented diet. British Poultry Science, 2007, 48, 573-579.	0.8	31
114	Use of natural extract of chestnut (Silvafeed ENC®) in broiler feeding: effect on growth performance. Italian Journal of Animal Science, 2007, 6, 731-733.	0.8	3
115	Effect of urea treatment on the nutritive value of local sorghum and millet straw: a comparative study on growing performance of Djallonke rams. Italian Journal of Animal Science, 2007, 6, 318-320.	0.8	3
116	Use of Silybum marianum fruit extract in broiler chicken nutrition: influence on performance and meat quality. Journal of Animal Physiology and Animal Nutrition, 2007, 91, 256-262.	1.0	61
117	Amino acid concentrations in blood serum of horses performing long lasting low-intensity exercise. Journal of Animal Physiology and Animal Nutrition, 2005, 89, 146-150.	1.0	25
118	Effect of genotype and overfeeding on lipid deposition in myofibres and intramuscular adipocytes of breast and thigh muscles of ducks. Reproduction, Nutrition, Development, 2005, 45, 87-99.	1.9	19
119	Effects of low doses of dexamethasone on productive traits and meat quality of veal calves. Animal Science, 2004, 79, 93-98.	1.3	15
120	Influence of dietary lipid source and strain on fatty acid composition of Muscovy duck meat. Journal of Animal Physiology and Animal Nutrition, 2004, 88, 88-93.	1.0	27
121	Effect of dietary clenbuterol and cimaterol on muscle composition, beta-adrenergic and androgen receptor concentrations in broiler chickens. Journal of Animal Physiology and Animal Nutrition, 2004, 88, 94-100.	1.0	15
122	Effect of dietary polyunsaturated fatty acids and Vitamin E on serum oxidative status in horses performing very light exercise. Italian Journal of Animal Science, 2004, 3, 141-145.	0.8	8
123	The Disturbed Habitat and Its Effects on the Animal Population. , 0, , .		2