[INIS Database] 食用肉への放射性核種移行に関する文献リスト(Radionuclide Migration in Domestic Animals)

Title	Author	Year	Source	RecordType	Abstract	Language	CountryOrg	RefNum
Report on international round table conference 'Accidental radiation contamination of food of animal origin' VolII (Working papers)	World Association of Veterinary Food Hygienists, Institute of Veterinary Medicine, Robert von Ostertag-Institute, Berlin (Germany)	1986	1986; 214 p.; International round table conference 'Accidental radiation contamination of food of animal origin; Stockholm (Sweden); 26-29 Jan 1987; INIS-XA-C069; Refs, figs, tabs;	Report	The World Association of Veterinary Food Hygienists (WAVFH) held an international round table conference in Stockholm, Sweden, January 26-29, 1987 The topic of the conference was 'Accidental Radiation Contamination of Food of Animal Origin' The agenda was divided into three major topic areas: 1 Ecological Science 2 Veterinary Science - Live Animals and 3 Veterinary Science - Food of Animal Origin Experts and delegates from member countries presented papers, participated in discussions and workshops and produced a multidisciplinary report covering the topic areas Two volumes were produced one a collection of all papers presented, and the other a compilation of the proceedings from each of the topic workshops In order to rapidly distribute the Association's information to members, papers and other information were collated and disseminated as presented to the conference participants	English	International Atomic Energy Agency (IAEA)	36080750
Guide for agriculture management in conditions of the soils radioactive contamination of the Republic of Belarus for a 1997-2000	Bogdevich, IM; Inst of Soil Science and Agrochemistry, Minsk (Belarus); Ministehrstva pa nadzvychajnykh situatsyyakh Rehspubliki Belarus', Minsk (Belarus); Ministehrstva sel'skai gaspsdarki i kharchavannya Rehspubliki Belarus', Minsk (Belarus); Akadehmiya agrarnykh navuk Belarusi, Minsk (Belarus) Inst of Soil Science and Agrochemistry	1997	Nov 1997; 77 p.; INIS-BY008; 13 tabs., 17 appendixes;		The researches have shown that behaviour of radionuclides in the soil - plant system continued to change for a 1992-1996 The further decrease of mobility of cesium 137 due to transition it in unexchange - absorbed state and increase of mobility of strontium 90 is established it has caused changes of biological availability of radionuclides In comparison with 1991 the availability of cesium 137 for plants has been decreased in 1,5 times in average, whereas of strontium 90 has been increased on 5-25% In this connection there was a necessity of amendment of transition factors for cesium and strontium from soils to agricultural cultures The introduction of the new republican tolerance dose levels for strontium 90 and cesium 137 in foodstuff and drinking water (RTDL-96), which for cesium 137 on a number positions are much below former (RTDL-92), as well as an increase of mobility of strontium 90 in soil requires the further perfection of a complex of protective measures directed on manufacture of agricultural production adequate radiation safety in the radioactive contaminated zones The results of researches of the both institutes of Agrarian Sciences Academy and regional design chemization stations were reflected in the present manual The system of measures directed on maintenance of agricultural production manufacture in according to tolerance levels of the radionuclides contents for both a public and personal (farmer) agriculture is specified Are considered the problems of organization of fodder base, feature of operation of reclamation projects on the drained grounds and both fruit and vegetable growing on the contaminated territories Are specified the plants protection measures against pests, illnesses and weeds for both grain and tilled cultures, list of pesticides which are permitted to application on soils with contamination density more 15 Ci/km"2 Are established the factors of radionuclides transition to grasses on water-logged grounds, as well as to vegetables, garden fruit and berries, differentiated in		Belarus	30006824
Pathways for the transfer of radionuclides from nuclear power reactors through the environment to man	Blanchard, RL; Kahn, B; Environmental Protection Agency, Cincinnati, Ohio (USA)	1972	International symposium 'Radioecology applied to the protection of man and his environment', Rome, Italy, 7-10 September 1971; May 1972.; Radioecology applied to the protection of man and his environment.; Rome, Italy.; 7 Sep 1971.; EUR4800(vol.1).;	Report			Commission of the European Communities (CEC)	4053707

Radionuclide concentrations in some cattle and sheep from West Cumbria	Popplewell, DS; Ham, GJ; Savory, TE; National Radiological Protection Board, Harwell (UK); Bradford, WR; Ministry of Agriculture, Fisheries and Food, Norwich (UK) Food Science Div	1981	(Jul 1981).; (no.41) p. 20-23.;	Journal	Tables are presented of concentrations of "2"3"8Pu, "2"3"9pu, "2"4"0Pu, "2"4"1Am, "1"3"7Cs, and "9"0Sr found in various tissues of three cows and three sheep reared on coastal and estuarine pastures contaminated by seaborne and windborne radioactivity in the region of the British Nuclear Fuels Ltd reprocessing plant at Windscale The levels were well below those which could be regarded as acceptable for long-term continuous intake (UK)		United Kingdom	12632377
Radiation protection for human population	Bogdevich, IM; Inst pochvaznawstva i agrakhimii, Minsk (Belarus) Inst of Soil Science and Agrochemistry; Kenigsberg, YaEh; Minenko, VF; Mrochek, AG; Navukovadasledchy klinichny inst radyyatsyjnaj medytsyny i ehndakrynalogii, Minsk (Belarus) Clinical Inst of Radiation Medicine and Endocrinology; Rolevich, IV; Skurat, VV; Sharovarov, GA; Natsyyanal'naya akadehmiya navuk Belarusi, Minsk (Belarus) Inst radyyaehkalagichnykh prablem Inst of Radioecological Problems	1998	Konoplya, E.F.; Natsyyanal'naya akadehmiya navuk Belarusi, Minsk (Belarus). Inst. radyyabiyalogii (Inst. of Radiobiology); Rolevich, I.V.; Ministehrstva pa nadzvychajnykh situatsyyakh Rehspubliki Belarusi, Minsk (Belarus) (Ministry for Emergencies); Natsyyanal'naya akadehmiya navuk Belarusi, Minsk (Belarus). National academy of sciences; Ministehrstva pa nadzvychajnykh situatsyyakh Rehspubliki Belarusi, Minsk (Belarus). Ministry for Emergencies; Scientific decision of the Chernobyl accident problems (results of 1997); 192 p.; Dec 1998; p. 10-53; INIS-BY-011;		The purpose of researches is development of methods and means of reduction of radiation risk caused by the Chernobyl accident consequences by means of decrease of both individual and collective dozes by realization of special protective measures The reconstruction of average collective accumulated irradiation dozes of the inhabitants of the contaminated populated localities of Belarus is carried out the forecast of development of radiation induced oncologic diseases is given The laws of formation of annual irradiation dozes are investigated the prevailing role of internal irradiation dozes in formation of total dose loadings is detected On this basis a number of practical projects directed on creation of effective land tenure and decrease of radioactive contamination of agricultural production, as well as decontamination technologies and radioactive waste management are executed Are given the results of researches carried out in Belarus in 1997 on the following directions: dose monitoring of the population, estimation and forecast of both collective irradiation dozes and risks of radiation induced diseases development and optimization of a complex of measures for effective land use and decrease of radioactive contamination of agricultural production in order to reduce irradiation dozes of the population development of complex technologies and means of decontamination, treatment and burial of radioactive wastes development and ground of the measures for increase of radiation protection of the population of Belarus during of the reducing period after the Chernobyl accident development of complex system of an estimation and decision-making on problems of radiation protection of the population living on contaminated territories	Russian	Belarus	30009288
Report on international round table conference 'Accidental radiation contamination of food of animal origin' Vol I	World Association of Veterinary Food Hygienists, Institute of Veterinary Medicine, Robert von Ostertag-Institute, Berlin (Germany)	1986	1986; 42 p.; International round table conference 'Accidental radiation contamination of food of animal origin'; Stockholm (Sweden); 26-29 Jan 1987; INIS-XA-C068; 26 refs, 4 tabs;	Report	The World Association of Veterinary Food Hygienists (WAVFH) held an international round table conference in Stockholm, Sweden, January 26-29, 1987 The topic of the conference was 'Accidental Radiation Contamination of Food of Animal Origin' The agenda was divided into three major topic areas: 1 Ecological Science 2 Veterinary Science - Live Animals and 3 Veterinary Science - Food of Animal Origin Experts and delegates from member countries presented papers, participated in discussions and workshops and produced a multidisciplinary report covering the topic areas The recent accidental release of radioactive substances into the environment from the Chernobyl accident, demonstrated the need for veterinary, ecological, physical and medical sciences to be prepared to respond to an incident in order to protect the environment, food chain, other agricultural assets and humans from the adverse effects of radionuclides Several presentations suggested that even with the best technologies, national and regional commitment, and relatively unrestricted resource levels, nuclear incidents can cross international boundaries and can contaminate the environment to the extent that the integrity of various food and water supplies can be at risk Speakers and subsequent discussers tended to concentrate on the issues associated with lessening future environmental impacts if similar types of incidents should occur again	English	International Atomic Energy Agency (IAEA)	36080749

Relation between the deposition of long lived fission products and the total dietary ingestion	Strackee, L; Mattern, FCM	1973	Chemical and radionuclide food contamination; 1973.; MSS Information Corp.; New York.;	Book			United States	5107447
Analysis of natural systems	Anon	1974	Pacific Northwest Laboratory annual report for 1974 to the USAEC Division of Biomedical and Environmental Research. Part 2. Ecological sciences; Dec 1974.; BNWL-1950(Pt.2).;	Report			United States	6196273
Distribution of Sr-90, Cs-137 and Ra- 226 in the ecological cycle of the central Yugoslavia mountainous region	Milosevic, Z; Horsic, E; Kljajic, R; Institute of Radiology of the Veterinary Medicine Faculty, Sarajevo (Yugoslavia)	1982	Radiological protection - advances in theory and practice. Proceedings of the 3. international symposium held in Inverness, Scotland, 6-11 June 1982; 1982.; p. 106-109.; 3. International symposium on radiological protection - advances in theory and practice.; Inverness, Scotland (UK).; 6 - 11 Jun 1982.; Society for Radiological Protection.; Berkeley (UK).;		The distribution of Sr-90, Cs-137 and Ra-226 in the animal production cycle was studied Samples of ground, grass, beef and bones, milk and cheese, taken from the mountainous part of central Yugoslavia, were analysed The discrimination factors and concentration factors of the examined radionuclides were calculated (author)		United Kingdom	14737215
Transfer factors feed/meat in bovine and pigs	Wagner, H; Mirna, A; Bundesanstalt fuer Fleischforschung, Kulmbach (Germany, FR) Isotopen Lab	1981	Bundesministerium des Innern, Bonn (Germany, F.R.); Arbeitsgemeinschaft fuer Umweltfragen e.V., Bonn (Germany, F.R.).; Radioecology symposium; 628 p.; 1981.; p. 184-196.; Radioecology symposium.; Stuttgart (Germany, F.R.).; 15-16 Oct 1981.; Copy held by Fachinformationszentrum Energie, Physik, Mathematik G.m.b.H., Eggenstein- Leopoldshafen (Germany, F.R.).;		Meat samples of young bulls and pigs have been selected in various parts of the FRG and examined for their content of Cs-137, Sr-90, and Pb-210 The data determined by measurement for each of the location-specific samples revealed a transfer factor for Cs-137 ranging between 3 x 10"-"2 and 75 x 10"-"2 For Sr-90, agreement between measured data and the theoretical value given in the General Instructions and Standard Values for Calculation is found, whereas for Pb-210, the relevant values differ by two decimal exponents, so that the transfer factor is to be corrected (DG/HP)	German	Germany	17006370

Feed/meat transfer factor	Hoepfner, U; Institut fuer	1981	Bundesministerium des Innern,	Miscellaneous	The transfer of cesium from the feed to bovine meat is taken as an example to discuss Ger	rman	Germany	17006371
determination	Energie- und Umweltforschung		Bonn (Germany, F.R.);		natural environmental conditions and their effects on the determination of the transfer			
	eV, Heidelberg (Germany, FR)		Arbeitsgemeinschaft fuer		factor Criteria for estimating the validity of experimentally determined transfer factors			
			Umweltfragen e.V., Bonn		are given and used for a critical evaluation of significant literature data The evaluation			
			(Germany, F.R.).; Radioecology		presented in this report is not a merely statistical evaluation of transfer data, indicating			
			symposium; 628 p.; 1981.; p.		one single value as the correct one (sometimes within a certain margin), but rather			
			197-225.; Radioecology		scans the data available for incertainties and drawbacks of the experimental methods			
			symposium.; Stuttgart (Germany,		applied, finally stating a range of variation within which transfer factors can be			
			F.R.).; 15-16 Oct 1981.; Copy held		considered to be correct (orig/DG)			
			by Fachinformationszentrum					
			Energie, Physik, Mathematik					
			G.m.b.H., Eggenstein-					
			Leopoldshafen (Germany, F.R.).;					
Measurements of transfer coefficient		1988	(May 1988).; v. 27(2) p. 143-152.;	Journal	The transfer in cattle of the radionuclides "1"3"7Cs, "6"0Co, "5"4Mn, "2"2Na, "1"3"1I		Germany	19050115
for "1"3"7Cs, "6"0Co, "5"4Mn, "2"2Na					and "9"5"mTc was studied experimentally to determine transfer coefficients from feed			
"1"3"1I and "9"5"mTc from feed into					to milk and meat Special interest was kept on normal feeding and maintenance			
milk and beef	mbH Muenchen, Neuherberg				conditions used in Germany The radionuclides were incorporated into fodder plants			
	(Germany, FR) Inst fuer				through root uptake and thus available in a chemical form resulting from the			
	Strahlenschutz				contamination of agricultural soil This permitted realistic simulation of the soil-plant-			
					animal food chain The equilibrium transfer coefficients for milk were calculated to be			
					"2"2Na: 0016#+-#0002 d/l, "6"0Co: #<=# 00002 d/l, "5"4Mn: #<=# 00005 d/l, and			
					"1"3"7Cs: 00022#+-#00002 d/l The equilibrium transfer coefficients for meat were			
					calculated to be "2"2Na: 001#+-#0002 d/kg, "6"0Co: #<=# 000013 d/kg, "5"4Mn: #<=#			
					00005 d/kg, and "1"3"7Cs: 00062#+-#00006 d/kg A single dose of "1"3"1I was orally			
					administered three times in the chemical form of iodide Models were applied to obtain			
					parameters for a quantitative description of the iodine metabolism The equilibrium			
					transfer factor for "1"3"1I in this chemical form to milk was calculated to be 0009#+-			
					#00014 d/l For "9"5"mTc only an upper limit of the transfer factor of 17 10"-"4 d/l			

Development and testing of a revised dynamic model of radiocaesium transfer to sheep tissues	Crout, NMJ; Department of Physiology and Environmental Science, University of	1996	Radiation and Environmental Biophysics.; (Feb 1996).; p. 19- 24.; v. 35(1).;	Journal	The model of radiocaesium transfer to sheep presented by Galer et al [1] provides reliable predictions only for sheep of a similar body weight to those used in the development of the model (approximately 30 kg) To extend the applicability of the	English	Germany	27035246
	Nottingham, Sutton Bonington LE12 SRD (United Kingdom); Beresford, NA; Institute of Terrestrial Ecology, Merlewood Research Station, Grange-over-Sands, Cumbria LA11 6JU (United Kingdom); Howard, BJ; Institute of Terrestrial Ecology, Merlewood Research Station, Grange-over-Sands, Cumbria LA11 6JU (United Kingdom); Mayes, RW; Macaulay Land Use Research Institute, Craigiebuckler, Aberdeen AB9 2QJ (United Kingdom); Assimakopoulos, PA; Nuclear Physics Laboratory, The University of Ioannina, Gr-453 10 Ioannina (Greece); Vandecasteele, CM; CEN/SCK, Mol (Belgium)				model, it was necessary to re-parameterise it in terms of activity concentrations in tissues rather than total activities within them (although for gut compartments the use of activity has been retained) The rate coefficients for the new model have been estimated by fitting the model to the data used by Galer et al [1] which was derived from a single "calibration" experiment The new model was found to account for 94% of the observed variation in the data (n = 42), a result similar to that obtained by Galer et al [1] The model has also been tested against data not used in its development but obtained from four separate experiments undertaken by three different laboratories Good agreement between the predictions of the new model and observations was found for most circumstances and for several breeds of sheep with different body weights It is concluded that the new model provides a useful dynamic description of radiocaesium transfers to the tissues of sheep of different breeds and under different contamination scenarios (orig)			
GRECA Review of Chernobyl Data on Transfer to Animal Products	Nair, S; Berkeley Nuclear Laboratories, Central Electricity Generating Board, Berkeley (United Kingdom); lijima, T; Department of Nuclear Safety Evaluation, Japan Atomic Energy Research Institute, Tokai-mura Naka-gun, Ibaraki- ken (Japan)	1988	Proceedings of the first part of a joint OECD(NEA)/CEC workshop on recent advances in reactor accident consequence assessment; Feb 1988; p. 170-200; Joint OECD(NEA)/CEC workshop on recent advances in reactor accident consequence assessment; Rome (Italy); 25-29 Jan 1988; NEA-CSNI-R1988-145-V.1; 2 refs.;	Report	This paper presents results of a review carried out by GRECA of Chernobyl fallout data from the OECD countries relevant to transfer to animal products Two groups of data are considered: data applicable to a large number of different locations within a country obtained from the national monitoring programmes, and detailed data for a few locations obtained by selected organisations or research institutes for model validation purposes Origins of the data included in this review are first summarized, and the results of a preliminary evaluation is presented for milk and various kinds of meat (mutton and lamb and others) Conclusions concerning transfer factors and uptakes are given, while an estimation of feed-to-milk transfer factor with temporally variable intake and milk concentration of a radionuclide is presented in appendix	English	Nuclear Energy Agency of the OECD (NEA)	42027059
Radioactive fission product "1"3"7Cs in mushrooms in W Germany during 19631970	Grueter, H	1973	Chemical and radionuclide food contamination; 1973.; MSS Information Corp.; New York.;	Book			United States	5105778
Critique of the food pathways model in the HERMES code	Smith, OL; Booth, RS; Oak Ridge National Lab, Tenn (USA)	1974	Nov 1974.; 29 p.; ORNL-TM 4373.;	Report			United States	6190557
The estimation of the transfer of radionuclides from the ground into animal food (meat)	Franke, B; Hoepfner, U; IFEU Inst fuer Energie- und Umweltforschung Heidelberg eV (Germany, FR)	1978	1978.; 50 p.; Available from Fachinformationszentrum Energie, Physik, Mathematik, Karlsruhe, Germany, F.R.;	Miscellaneous	It is shown in the introductory chapters of this literature study that the values recommended in the 'Allgemeinen Berechnungsgrundlagen' (general fundamental calculations) of the SSK have arisen from a scientifically doubtful derivation method of concentration data of stable elements Other tables, on the other hand, give transfer factors mainly based on the experimentally determined results of renouned groups of scientists The values for the transfer factors food - meat are higher than the SSK values for the nuclides (radiocesium, radiostrontium, radioidine, plutonium) considered in this study in these tables The thorough literature survey described in this study confirms the large difference between the estimated SSK values and the data named in the tables mentioned or in the primary literature (orig/MG)	German	Germany	12591694

Field investigations of the uptake of radionuclides by a dairy herd	Dodd, NJ; National Radiological Protection Board, Harwell (UK)	1983	(Nov 1983).; (no.55) p. 8-9.;	Journal	A brief outline is given of a current study of the transfer of radionuclides in the pasture-cow-milk pathway at a farm situated close to the Sellafield nuclear installation Samples collected include airborne dust, rainwater, herbage, supplementary feed, milk and tissue, bone and organs from slaughtered cows Data collected so far have been used to derive coefficients that quantify the transfer of "9"0Sr, "1"3"7Cs, "2"3"9Pu and "2"4"1Am to meat and milk (UK)		United Kingdom	15024602
Migration of zinc-65 in trophic chain of sheep and rationing of its intake	Korneev, NA; Sirotkin, AN; Rasin, IM; Abramova, TN; Vsesoyuznyj Nauchno- Issledovatel'skij Inst Sel'skokhozyajstvennoj Radiologii, (USSR)	1986	(Dec 1986).; (no.12) p. 25-27.;	Journal	Quantitative characteristics of zinc-65 migration in the tropic chain of sheep are calculated by the experimental data Criteria and principles of calculation of permissible concentrations of radionuclide in some nature environments, animal feeds and mutton are suggested	Russian	USSR	18073022
Sensitivity analysis of model concerning consumption of products of livestock watered with water contaminated with liquid effluents from WWER-440 nuclear power plant	Mitro, A; Hanusik, V; Ustav Radioekologie a Vyuzitia	1986	(1986).; v. 9(3) p. 177-185.;	Journal	Tests of important parameters of a food chain model showed that in the assessment of the radiation burden due to milk and meat contaminated as a result of livestock watering, attention should be devoted to the radionuclide content of water and the selection of the values of the following parameters: effective dose equivalent due to specific radionuclides, human consumption of milk, livestock water consumption, feed-milk transport coefficients for specific radionuclides, meat consumption, feed-meat transport coefficients, and the biological half-life of radionuclide excretion by livestock The parameters relating to milk consumption are more significant that the meat consumption related parameters (Ha)	Slovak	Czechoslovakia	18098955
Transfer to farm animals (ruminants) and their products of Cs-134, Cs-137 and I-131 after the Chernobyl accident	Vankerkom, J; Van Hees, M; Vandecasteele, CM; Colard, J; Culot, JP; Kirchmann, R; Centre d'Etude de l'Energie Nucleaire, Mol (Belgium)	1988	Environmental impact of nuclear accidents; Sep 1988.; p. E111-E119.; 4. Cadarache International Symposium on Radioecology.; Cadarache (France).; 14-18 Mar 1988.; Section Documentation - CEN/Cadarache.; Cadarache (France).; Contract B16-B-242-B.;		The transfer of the main radionuclides ("1"3"4Cs, "1"3"7Cs and "1"3"1I) deposited on pastures after the Chernobyl accident to farm animals and their products has been studied in cows and sheep at the experimental farm of the CEN/SCK The evolution of the transfer of these radioisotopes from grass to milk was followed in open field conditions during the first months after deposition The ecological half-lives in grass and milk were determined For iodine they amount to 46, 53 and 58 d for grass, sheep and cow's milk, respectively for radiocaesium they respectively amount to 33, 80 and 87 d The concentrations of all of the three radionuclides measured in sheep's milk were higher than in cow's milk, by a factor 14 for iodine and by a factor 2 for caesium Grass-to-milk transfer coefficents were estimated The bioavailability for cows of the Chernobyl radiocaesium has been compared under controlled conditions to the bioavailability of CsCl The transfer coefficient of Caesium as CsCl from grass to milk is about 0006 d/l From the results obtained it appears that the availability of the Chernobyl Cs on hay harvested mid-June 1986 might be slightly lower than that of CsCl The transfer of the Chernobyl radiocaesium from grass to sheep meat estimated under field conditions was higher by a factor 2 in young animals than in adult animals The time dependent evolution of the Caesium contamination in various organs of sheep is best fitted as a sum of two exponential functions the ecological half-lives in the two compartments were 10 d and 150 to 200 d, respectively		France	20022413
Radionuclide contamination of animal products	Wirth, E; Kaul, A; Bundesgesundheitsamt, Neuherberg (Germany, FR) Inst fuer Strahlenhygiene	1989	Residues in food derived from animals; 1989.; p. 145-177.; Parey.; Berlin (Germany, F.R.).;	Book	This chapter briefly deals with the physical fundamentals of radioactivity and the radiobiological effects of ionizing radiation and radioactive substances and then exclusively discusses the food chains as major exposure pathways Particular emphasis is placed on the radionuclides "3H, "1"4C, "9"0Sr, "1"3"7Cs, and plutonium Suitable measures for reducing the contamination of domestic animals are mentioned (orig/MG)	German	Germany	21052917

Migration properties of radionuclides released from Chernobyl NPP in agriculture and radioecological aspect	Petryaev, EP; Sokolik, GA; Ivanova, TS; Morozova, TK; Ovsyannikova, SV; Pishchalov, VN; Belorusskij Gosudarstvennyj Univ, Minsk (Belarus)	1991	Vestsi Akademii Navuk BSSR. Seryya Fizika-Ehnergetychnykh Navuk.; (1991).; (no.3) p. 26-32.;	Journal	The radionuclide in the area migration Chernobyl NPP at the 12 points of three landscape-geochemical proving grounds in Mogilev and Gomel Regions is studied The main characteristics of contamination, the vertical migration in a soil profile, the degree of radionuclide builup by plants and the intensity of the accumulated isotope release from domestic animal bodies are investigated The data presented could be applied for solving radioecological problems, forecasting radiation situations and developing practical recommendations	Russian	Belarus	23047942
Biological effect of ferrocyanides and their adsorbability in laboratory and industrial tests	Mayakov, EN; Budarkov, VA; Torubarova, AA; Volosevich, LA; Mishin, AM; Yastrebkov, YuA	1994	RAN, Moscow (Russian Federation). Nauchnyj Sovet po Problemam Radiobiologii.; All-Russian conference on applied aspects of radiobiology. Exhibition Radiobiology for practice; 87 p.; 1994.; p. 65-66.; All-Russian conference on applied aspects of radiobiology.; Moscow (Russian Federation).; 19-20 Apr 1994.; INIS-RU406.;	Miscellaneous	Short communication	Russian	Russian Federation	26054564
Comparison of the measured specific activities in milk and beef in Aachen after 1986 with calculations using a single- and multicompartment model	Bonka, H; Schmelz, G; Technische Hochschule Aachen (Germany) Lehrgebiet Strahlenschutz in der Kerntechnik	1998	Radioactivity in man and environment. Pt. 2; 1998; p. 772- 777; 30. annual meeting of Fachverband fuer Strahlenschutz e.V.: Radioactivity in man and environment and industrial exhibition; Lindau (Germany); 28 Sep - 2 Oct 1998; ISSN 1013-4506;		After the nuclear reactor accident at Chernobyl until the end of 1990 the specific activity in milk from five farms and in beef from the slaughterhouse Aachen was measured At the same time the specific activity in grass and other feed was determined at the farms Transfer factors for feed-milk and feed-beef were derived from the data The development of the measured specific activities can be approximated very well using single- or multi-compartment models (orig)	German	Germany	31033493
Transfer of Cs-137 from soil to plants and lamb meat in Iceland	Palsson, SE; Sigurgeirsson, MA; Gudnason, K; Icelandic Radiation protection Inst, Reykjavik (Iceland); Thorsson, J; Thorkelsson, E; Agricultural Research Inst, Reykjavik (Iceland)	2002	Summaries of studies carried out in the NKS/BOK-2 project. Technical report; Dec 2002; p. 45-51; NKS35; Also available or http://www.risoe.dk/rispubl/nks,nks-35.pdf; http://www.nks.org; 7 ref.;	1	Icelandic sheep graze mainly on uncultivated land with many plant species The availability of species is governed by various environmental factors, whether the area is dry or wet, soil types, average annual precipitation, height above sea level etc The lamb studies within the NKS projects (RAD-3, EKO-2, BOK-2) have shown that fallout Cs-137 still remains readily available to plants, with little signs of reduction during the past decade The special properties of the young volcanic soils of Iceland can explain this Further studies of their properties are recommended in order to gain better understanding of the processes involved The root of the observed variability in Cs-137 concentration seems simply to be the ecological diversity of the uncultivated seminatural ecosystem where the sheep are grazing Since the concentration of Cs-137 varies greatly between different plant species, difference in their relative abundance can cause considerable differences in agricultural products as have been observed here Much remains still to be done to understand better the behaviour of caesium in the Icelandic terrestrial ecosystem The lamb study has been an important step in understanding roots of variability in this sub-arctic environment and it serves as a		Denmark	34052024

"1"3"7Cs in the food-chain of lamb in the Faroe Islands Measurements in the period 1990-2000	, , ,		Summaries of studies carried out in the NKS/BOK-2 project. Technical report; Dec 2002; p. 55-60; NKS35; Also available on http://www.risoe.dk/rispubl/nks/nks-35.pdf; http://www.nks.org; 5 refs.;		Large temporal and spatial variations are found for the measured "1"3"7 Cs activities and the calculated transfer factors, both within and across pastures The effective ecological half-life, $T_1 / 2$, could not be estimated for all the sample types in every pasture $T_1 / 2$ for "1"3"7 Cs activity in grass and lamb meat could be estimated to 31-53 years and 51-80, respectively Deposition of "1"3"7 Cs has not decreased significantly over the study period, except for two pastures with estimated effective ecological half-lives of 99 years and 116 years These are all rough estimates, as large variability is associated with the measurements Soil characteristics are, as expected,	English	Denmark	34052025
Factors contributing to radiocaesium	Beresford, NA; nab@cehacuk;	2007	Journal of Environmental	Journal	important for the transfer of radiocaesium in the food chain of lamb Among the tree predictors potassium, pH and loss on ignition, loss on ignition is found to be most significant for transfer (au) Following the Chernobyl accident in 1986, restrictions were placed on the movement	English	United Kingdom	39054905
variability in upland sheep flocks in west Cumbria (United Kingdom)	Berestord, NA; nab@cehacuk; Centre for Ecology and Hydrology, CEH-Lancaster, Lancaster Environment Centre, Library Avenue, Bailrigg, Lancaster LAI 4AP (United Kingdom); Barnett, CL; Wright, SM; Howard, BJ; Centre for Ecology and Hydrology, CEH- Lancaster, Lancaster Environment Centre, Library Avenue, Bailrigg, Lancaster LAI 4AP (United Kingdom); Crout, NMJ; University of Nottingham, School of Biosciences, Biology Building, University Park, Nottingham NG7 2RD (United Kingdom)		Journal of Environmental Radioactivity; Nov 2007; p. 50-68; v. 98(1-2); 10.1016/j.jenvrad.2007.05.009; S0265-931X(07)00170-1; Available from http://dx.doi.org/10.1016/j.jenvr ad.2007.05.009; Copyright (c) 2007 Elsevier Science B.V., Amsterdam, The Netherlands, All rights reserved.;	Journal	Following the Chernobyl accident in 1986, restrictions were placed on the movement and slaughter of sheep within upland areas of the UK because radiocaesium activity concentrations in their meat exceeded 1000 Bq kg"-"1 fresh weight Some farms remain under restriction in 2007 From 1991 to 1993 detailed studies were conducted on three sheep farms within the restricted area of west Cumbria to systematically assess the various parameters which may contribute to the observed variability in radiocaesium activity concentrations within sheep flocks This paper reports the spatial variation in soil and vegetation activity concentrations across the grazed areas at these farms and determines the influence of grazing behaviour on variability in "1"3"7Cs activity concentrations between individual sheep within the flocks Together with previously reported results, these new data are used to draw conclusions on the factors determining variability within the three flocks However, the factors are too site specific to be able to generalise the findings to other farms within the restricted areas of the UK		United Kingdom	39054905

ARRRG/FOOD, Doses from Radioactive	Napier, BA; Roswell, RL;	1984	26 Mar 1984; [html]; Available	Miscellaneous	1 - Description of problem or function: ARRRG calculates radiation doses to humans for	English	Nuclear Energy	41076005
Release to Food Chain	Kennedy, WE Jr; Strenge, DL;		on-line:		radionuclides released to bodies of water from which people might obtain fish, other	Ü	Agency of the OECD	
	Pacific Northwest Laboratories,		http://www.nea.fr/abs/html/nes		aquatic foods, or drinking water, and in which they might fish, swim, or boat FOOD		(NEA)	
	Battelle, PO Box 999, Richland,		c0925.html; Country of input:		calculates radiation doses to humans from deposition on farm or garden soil and crops		(* -=)	
	Washington 99352 (United		International Atomic Energy		during either an atmospheric or water release of radionuclides Deposition may be			
	States); Organisation for		Agency (IAEA); 3 refs.;		either directly from the air or from irrigation water With both programs, doses may be			
	Economic Co-Operation and		Agency (IALA), 5 Tels.,		calculated for either a maximum- exposed individual or for a population group Doses			
	Development, Nuclear Energy				calculated are a one-year dose and a committed dose from one year of exposure The			
	Agency - OECD/NEA, Le Seine				exposure is usually considered as chronic however, equations are included to calculate			
	Saint-Germain, 12 boulevard				dose and dose commitment from acute, one-time, exposure 2 - Method of solution:			
	des Iles, F-92130 Issy-les-				The radiation doses from external exposure to contaminated farm fields or shorelines			
	Moulineaux (France)				are calculated assuming an 'infinite' flat plane source of radionuclides A factor of two is			
					included for surface roughness, and a modifying factor is used to compensate for finite			
					extent in the shoreline calculations The radionuclide concentrations in aquatic and			
					irrigated food products are based on the radionuclide concentration in the			
					contaminated water, which is based on the release rate of radioactive contamination			
				1	and the characteristics of the receiving water body Concentration of radionuclides in			
					plants depends on the concentrations in the soil, air, and water Concentration of			
					radionuclides in farm animal products, such as milk, meat, or eggs, depends on the			
					animal's consumption of feed, forage, and water containing radionuclides For persons			
					swimming in contaminated water, the dose is calculated assuming that the body of			
					water is an infinite medium relative to the range of emitted radiations Persons boating			
					on the water are assumed to be exposed to a dose rate half that of swimmers Internal			
					doses are calculated as a function of radionuclide concentration in food products,			
					ingestion rates, and a radionuclide-specific factor The equations for calculating internal			
					dose and dose commitment are derived from those given by the International			
					Commission on Radiological Protection (ICRP) for body burden and maximum			
Verification of radionuclide transfer	Sheppard, SC;	2010	Journal of Environmental	Journal	Recent reviews have established benchmark values for transfer factors that describe	English	United Kingdom	42044688
factors to domestic-animal food	sheppards@ecomatterscom;	2010	Radioactivity; Nov 2010; p. 895-	Journal	radionuclide transfer from plants to animal food product such as milk, eggs and meat	Liigiisii	Officed Kingdom	42044088
			**					
products, using indigenous elements and with emphasis on iodine	ECOMatters Inc, WB Lewis Business Centre, 24 Aberdeen		901; v. 101(11);		They also illustrate the paucity of data for some elements and some food products The			
and with emphasis on lodine	,		10.1016/j.jenvrad.2010.06.002;		present study quantified transfer data using indigenous elements measured in dairy,			
	Avenue, Pinawa, Manitoba, ROE		S0265-931X(10)00134-7;		poultry and other livestock farms in Canada Up to 62 elements are reported, with			
	1L0 (Canada); Long, JM;		Available from		particular emphasis on iodine (I) because of the need to accurately assess the			
	Sanipelli, B; ECOMatters Inc,		http://dx.doi.org/10.1016/j.jenvr		behaviour of "1"2"9I from disposal of nuclear fuel waste There was remarkable			
	WB Lewis Business Centre, 24		ad.2010.06.002; Copyright (c)		agreement with the literature values, and for many elements the present study			
	Aberdeen Avenue, Pinawa,		2010 Elsevier Science B.V.,		involved many more observations than were previously available Perhaps the most			
	Manitoba, R0E 1L0 (Canada)		Amsterdam, The Netherlands, All		important observation was that product/substrate concentration ratios (CR) were quite			
			rights reserved.;		consistent across species, whereas the traditional fractional transfer factors (TF, units			
					of d kg"-"1 or d L"-"1) necessarily vary with body mass (feed intake) This suggests that			
					for long-term assessments, it may be advisable to change the models to use CR rather			
					than TF			
Hygienic problems of Sr"9"0 and	Dauskurdis, SI; Novikov, YuV	1973	(Apr 1973).; (no.4) p. 91-94.; For	Journal		Russian	USSR	4088680
Cs"1"3"7 migration along the soil-			English translation see the					
plants-milk-beef chain			journal Hyg. Sanit.;	<u> </u>		<u> </u>		
Grazing studies on selected plutonium-	Smith, DD; National	1974	Dynamics of plutonium in desert	Report			United States	6165934
contaminated areas in Nevada	Environmental Research Center,		environments. Nevada Applied					
	Las Vegas, NV		Ecology Group progress report as	1				
			of January 1974; Jul 1974.; NVO-	1				
			AEIC74-1.;	1				
			,	1				
	•			•				

Estimated dose to man from uranium milling via the terrestrial food-chain pathway	Rayno, DR; Argonne National Lab, IL (USA)	1982	Jan 1982.; 33 p.; ANL/ES125.; Available from NTIS., PC A03/MF A01 as DE82008718.;	Report	One of the major pathways of radiological exposure to man from uranium milling operations is through the terrestrial food chain Studies by various investigators have shown the extent of uptake and distribution of U-238, U-234, Th-230, Ra-226, Pb-210, and Po-210 in plants and animals These long-lived natural radioisotopes, all nuclides of the uranium decay series, are found in concentrated amounts in uranium mill tailings Data from these investigations are used to estimate the dose to man from consumption of beef and milk contaminated by the tailings This dose estimate from this technologically enhanced source is compared with that from average normal dietary intake of these radionuclides from natural sources	United State	13699260
Transfer data for radio-cesium in the food chain feed/meat	Fliegl, E; Bundesforschungsanstalt fuer Ernaehrung, Karlsruhe (Germany, FR) Zentrallaboratorium fuer Isotopentechnik	1981	Fortbildungszentrum Gesundheits- und Umweltschutz Berlin e.V. (Germany, F.R.).; Radioecology and radiation protection; 208 p.; 1981.; p. 1- 12.; 48. FGU-seminar on radioecology and radiation protection.; Berlin, Germany, F.R.; 20 - 22 May 1981.; Available from Fortbildungszentrum Gesundheits- und Umweltschutz Berlin e.V., Germany, F.R.;	Miscellaneous	It is necessary to have some knowledge of the behaviour of radioactive material in the food chain to be able to assess the radiation exposure of humans via the ingestion path way The transfer factor has to be defined precisely because there is a linear dependence of the radiation dose on the transfer factor in the mathematical models for calculating the annual radiation doses Knowledge of the animal-specific cesium retention, of the biological half-life as well as of the distribution system is required for an accurate calculation of the transfer-data of the particularly important radionuclide cesium 137 After having studied the original literature thoroughly the following transfer factors have been found as an average: cattle 003 + 002, calf 043 + 006, goat 020, sheep 011 + 002, swine 026 + 001, chicken 323 + 141, reindeer 031 + 007 (MG)	Germany	13710821
RAGBEEF: a FORTRAN IV implementation of a time-dependent model for radionuclide contamination of beef	Pleasant, JC; McDowell-Boyer, LM; Killough, GG; Oak Ridge National Lab, TN (USA)	1982	Jun 1982.; 138 p.; NUREG/CR 2610.; ORNL/TM8011.; Available from NTIS., PC A07/MF A01 as DE82015708.;	Report	RAGBEEF is a FORTRAN IV program that calculates radionuclide concentrations in beef as a result of ingestion of contaminated feeds, pasture, and pasture soil by beef cattle The model implemented by RAGBEEF is dynamic in nature, allowing the user to consider age- and season-dependent aspects of beef cattle management in estimating concentrations in beef It serves as an auxiliary code to RAGTIME, previously documented by the authors, which calculates radionuclide concentrations in agricultural crops in a dynamic manner, but evaluates concentrations in beef for steady-state conditions only The time-dependent concentrations in feeds, pasture, and pasture soil generated by RAGTIME are used as input to the RAGBEEF code RAGBEEF, as presently implemented, calculates radionuclide concentrations in the muscle of age-based cohorts in a beef cattle herd Concentrations in the milk of lactating cows are also calculated, but are assumed age-dependent as in RAGTIME Radionuclide concentrations in beef and milk are described in RAGBEEF by a system of ordinary linear differential equations in which the transfer rate of radioactivity between compartments is proportional to the inventory of radioactivity in the source compartment This system is solved by use of the GEAR package for solution of systems of ordinary differential equations The accuracy of this solution is monitored at various check points by comparison with explicit solutions of Bateman-type equations This report describes the age- and season-dependent considerations making up the RAGBEEF model, as well as presenting the equations which describe the model and a documentation of the associated computer code Listings of the RAGBEEF and updated RAGTIME codes are provided in appendices, as are the results of a sample run of RAGBEEF and a description of recent modifications to RAGTIME	United State	es 14719411

Migration of selected radionuclides in	Hanusik, V; Smajda, B;	1983	(1983).; v. 6(3) p. 173-190.; For	Journal	The migration is described of radiostrontium, radiocesium and radioiodine in the	Slovak	Czechoslovakia	15067345
the food chain II	Musatovova, O; Szabova, T; Ustav Radioekologie a Vyuzitia Jadrovej Techniky, Kosice (Czechoslovakia)		Part I see Radioaktiv. Zivotn. Prostr. (1983) v. 6(1) p. 49-64.;		system plant-animal-man, and the impact is monitored of the individual factors on the accumulation of these radionuclides in the organisms of animals and humans On the basis of data published (NRC Regulatory Guide 1109) relating to the variability of the parameters of the model, the range is estimated of variations of radiostrontium and radiocesium concentrations in meat and in milk as is the range of variations of the whole-body dose equivalent (author)			
Human food chain contamination The case of meat in the EEC in 1977	Stemmelen, E; CEA Centre d'Etudes Nucleaires de Fontenay-aux-Roses, 92 (France)	1984	Apr 1984.; 168 p.; CEA-R5262.;	Report	Cesium 137 levels in meat distributed for human consumption have been determined as a function of the contamination levels at production The model considers product transformations and exchanges between EEC countries or areas On the basis of the statistics available and with a number of economic assumptions the flows are estimated, thus allowing to calculate contamination transfers Cattle, pork, fowl have been considered especially, the other meat more briefly The initial levels are exogenous variates various assumptions can thus be tested: real measures or arbitrary values The model confirms that the final values for the ingested activities are low, but the difference between the levels before and after exchanges may be very large Transfers occur usually within a country from rural to urban areas and sometimes from one country to another In some little productive areas, the situation depends mostly or contaminations from external and even remote origin		France	16002049
Consequences of the Chernobyl accident	Royal Coll of Radiologists, London (UK)	1988	On the state of the public health; 1988.; p. 93-94.; H. M. Stationery Office.; London (UK).; Price Pound 11.25.;		This annual report includes a summary of the consequences of the nuclear accident at Chernobyl Topics listed include the monitoring and control of radionuclide levels in food, control of the movement and slaughter of sheep, the monitoring of human exposures, the review of accident plans, international cooperation, and the use of stable iodine (UK)		United Kingdom	20008232
Transfer of some Chernobyl fallout nuclides in the animal-product food chain	Handl, J; Niedersaechisches Inst fuer Radiooekologie, Hannover (Germany, FR); Pfau, A; Forschungsanstalt fuer Landwirtschaft Neustadt am Ruebenberge (Germany, FR) Inst fuer Tierzucht und Tierverhalten	1988	Environmental impact of nuclear accidents; Sep 1988.; p. E92-E97. 4. Cadarache International Symposium on Radioecology.; Cadarache (France).; 14-18 Mar 1988.; Section Documentation - CEN/Cadarache.; Cadarache (France).;	Book ;	One of the most important tasks after the Chernobyl accident was the tracing of radionuclides into the food chain because of the acute interest in view of radiation protection considerations and of the fundamental significance to extend the knowledge on consequences of an accidental release In this context five experiments have been performed during the last two years to investigate the transfer of radiocesium from grass into milk and meat of dairy cows The first experiment, which was started immediately after the accident, involved 10 stable-kept cows fed with the freshly contaminated grass Cs-transfer from grass into milk was found to be considerably lower than expected After the starting phase of one week the mean transfer factor milk/grass for Cs-134 and Cs-137 leveled at 3210"-"3 d/kg during the second week This interesting result gave rise to four additional experiments, to study the Cs-transfer during the following feeding periods applying grass of fallout and root-uptake contamination		France	20022412
Combating radiocesium contamination in farm animals	Hove, K; Ekern, A; Norges Landbrukshoegskole, Vollebekk (Norway)	1988	Health problems in connection with radiation from radioactive matter in fertilizers, soils and rocks; 1988.; p. 140-153.; International symposium on health problems in connection with radiation from radioactive matter in fertilizers, soils and rocks.; Oslo (Norway).; 26-27 May 1988.; Universitetsforlaget.; Oslo (Norway).; 27 refs.;	Book	Considerable amounts of radioactive fallout from the Chernobyl accident swept centra parts of Norway, where especially native mountain areas but also some agricultural land were heavily contaminated Parts of the heavily polluted areas are important in Norwegian animal production, being grazed by reindeer all year, and by sheep, goats and cattle in the summer Cs-137 and Cs-134 appeared in feeds shortly after the accident and the levels increased throughout the summer In this paper some of the results obtained in experiments with contaminated animals in Norway are reviewed Experiments in connection with the use of uncontaminated feeds for decontamination of farm animals, the transfer of radioactivity to milk, and the use of cesiumbinders to reduce cesium contamination are described		Norway	21006045

Transfer of radiocaesium present in hay contaminated by Chernobyl fallout to pregnant ewes and their lambs at different ages	Daburon, F; Fayart, G; Baradat, M; Libotte, S; CEA Centre d'Etudes de Fontenay-aux- Roses, 92 (France) Dept de Pathologie et de Toxicologie Experimentales	1992	Radioprotection.; (Oct-Dec 1992).; p. 423-435.; v. 27(4).;	Journal	Contaminated hay harvested in the south-east of France in june 1986 was fed to 4 pregnant ewes from about 1 month before to 1 month after lambing The caesium body burdens ("1"3"7 Cs and "1"3"4 Cs) of ewes and lambs (n = 6) were assessed by whole-body counting the milk intake of the lambs was estimated as a function of their daily weight increase The mean milk and meat transfers in ewes, between D10 and D30 after lambing were respectively 47#+-#14% and 79#+-#17% At birth the mean caesium body burden of the lambs was 32#+-#8% of the dam body burden at weaning (D30) the mean retention of the ingested radiocaesium was 39#+-#6% vs 273#+-#32% for the dams The spontaneous decorporation half-time of caesium in lambs at weaning was about 145 days (mono-exponential curve) vs about 26 days for the dams (long component of bi-exponential curve) Meat transfers, uptake and spontaneous decorporation parameters were also studied: (1) in 4 lambs from 1 to 3 months after		France	24041704
Agriculture, environment and nuclear energy: how react in front of accident	CEA Centre d'Etudes de Fontenay-aux-Roses, 92 (France) Inst de Protection et de Surete Nucleaire	1994	1994.; 105 p.; Institut de Protection et de Surete Nucleaire.; Fontenay-aux-Roses (France).; ISBN 2- 950-8497-09.;	Book	weaning and (2) in 3 young animals between 9 and 10 months after birth The values of the different parameters of caesium transit in neonates and lambs are discussed with regard to contamination accident management This book has the objective to inform population and specially agricultural population The different chapters are presented as followed: how the different media are contaminated (air, soils, water) and the different productions (milk, cereals, vegetables, meat) the risks which could come from this contamination and the possibilities of protection against it	French	France	26008141
A software for a quick assessment of the consequences of a radioactive fallout on the food chain: application to a tropical environment	Laylavoix, F; CEA Centre d'Etudes de Fontenay-aux- Roses, 92 (France) Dept de Protection de la Sante de l'Homme et de Dosimetrie; Ducousso, R; Centre de Recherches du Service de Sante des Armees, 92 - Clamart (France); Grouzelle, C; Baudot, MF; Direction des Centre d'Experimentations Nucleaires, 91 -Montlhery (France)	1995	950-8497-09.; Radioprotection.; (Jan-Mar 1995).; p. 79-88.; v. 30(1).;	Journal	A software has been developed for a fast assessment of the consequences of a radioactive fallout on the food chain From the surface activity measured 24 h after deposition, it computes the dose ingested by the population on the 60th day of exposure this duration corresponds to 2 or 4 mechanical clearance half-lives of the radionuclides at the vegetal surface Particular attention was paid to easy access to specific local parameters, conviviality and possibility to be used on any MSDOS operated PC (authors) 17 refs, 1 fig	French	France	26052598
Recent advances in terrestrial radioecology	Steinnes, E; Trondheim Univ (Norway)	1995	Joint Inst. for Nuclear Research, Dubna (Russian Federation). Lab. of Neutron Physics.; Nuclear physics for protection of the environment. NPPE-95. Abstracts; 164 p.; 1995.; p. 76.; 3. International Meeting. Nuclear physics for protection of the environment.; Dubna (Russian Federation).; 23-28 May 1995.; JINR.; JINR-E14-95-206.;	Miscellaneous	Short communication	English	Russian Federation	27013713

A	la 1 : 1 104 AL 1 L 1 :	4006	lu i se al il :	In at 11	I	lo i	27040000
Agricultural industrial production under the conditions of radioactive	Agrarnykh Navuk Belarusi,	1996	Konoplya, E.F.; Akadehmiya Navuk Belarusi, Minsk (Belarus).	Miscellaneous	More than 18 million hectares of agricultural fields that makes up 208% of the available Russian area was exposed to radioactive contamination with Cs-137 density over 37 kBq/sqm,	Belarus	27040880
contamination Chapter 4	Minsk (Belarus) Belaruski		Inst. Radyyabiyalogii; Rolevich,		including 265 thousand sq km with Cs-137 contamination density over 1480 kBq/sqm,		
	Navukova-Dasledchy Inst		I.V.; Ministehrstva pa		Sr-90 - more than 111 kBq/sqm and Pu - over 37 kBq/sqm which were excluded from		
	Glebaznawstva i Agrakhimii;		Nadzvychajnykh Situatsyyakh i		economic turn-over The behaviour of radionuclides in soil and their transfer to the		
	Ageets, VYu; Akadehmiya		Abarone Nasel'nitstva ad		plant-growing products are described Methods restricting the radionuclides intake into		
	Agrarnykh Navuk Belarusi,		Vynikaw Katastrofy na		plants such as selection of cultures, soil cultivation, liming of acid soils, fertilizers,		
	Minsk (Belarus) Belaruski		Charnobyl'skaj AEhS Rehspubliki		protection of plants, water regime regulation and other are given The problems of		
	Navukova-Dasledchy Inst		Belarus', Minsk (Belarus);		animal breeding are described For alleviation of the practical use of recommendations		
	Glebaznawstva i Agrakhimii;		Ministehrstva pa Nadzvychajnykh		there have been calculated the norms of radionuclides permissible content in concrete		
	Antsypov, GV; Ministehrstva pa		Situatsyyakh i Abarone		forage for cattle on the basis of typical rations and the certain scheme of young stock		
	Nadzvychajnykh Situatsyyakh i		Nasel'nitstva ad Vynikaw		breeding and cattle fattening has been proposed Forecasting of agricultural products		
	Abarone Nasel'nitstva ad		Katastrofy na Charnobyl'skaj		contamination and the efficiency of protective measures are given 5 tabs, 12 figs		
	Vynikaw Katastrofy na		AEhS Rehspubliki Belarus', Minsk		solution and the emotion of protective measures are given 5 tably 12 ligs		
	Charnobyl'skaj AEhS Rehspubliki		(Belarus); Akadehmiya Navuk				
	Belarus', Minsk (Belarus)		Belarusi, Minsk (Belarus).; The				
	Detailed , William (Detailed)		Chernobyl catastrophe				
			consequences in the Republic of				
			Belarus. National report; 96 p.;				
			Mar 1996.; p. 59-75.; INIS-mf				
			14750.;				
			14730.,				
Agricultural industrial production under	Bogdevich, IM; Akadehmiya	1996	Konoplya, E.F.; Akadehmiya	Miscellaneous	More than 18 million hectares of agricultural fields that makes up 208% of the available English	Belarus	27040881
the conditions of radioactive	Agrarnykh Navuk Belarusi,		Navuk Belarusi, Minsk (Belarus).		area was exposed to radioactive contamination with Cs-137 density over 37 kBq/sqm,		
contamination Chapter 4	Minsk (Belarus) Belaruski		Inst. Radyyabiyalogii; Rolevich,		including 265 thousand sq km with Cs-137 contamination density over 1480 kBq/sqm,		
	Navukova-Dasledchy Inst		I.V.; Ministehrstva pa		Sr-90 - more than 111 kBq/sqm and Pu - over 37 kBq/sqm which were excluded from		
	Glebaznawstva i Agrakhimii;		Nadzvychajnykh Situatsyyakh i		economic turn-over The behaviour of radionuclides in soil and their transfer to the		
	Ageets, VYu; Akadehmiya		Abarone Nasel'nitstva ad		plant-growing products are described Methods restricting the radionuclides intake into		
	Agrarnykh Navuk Belarusi,		Vynikaw Katastrofy na		plants such as selection of cultures, soil cultivation, liming of acid soils, fertilizers,		
	Minsk (Belarus) Belaruski		Charnobyl'skaj AEhS Rehspubliki		protection of plants, water regime regulation and other are given The problems of		
	Navukova-Dasledchy Inst		Belarus', Minsk (Belarus);		animal breeding are described For alleviation of the practical use of recommendations		
	Glebaznawstva i Agrakhimii;		Ministehrstva pa Nadzvychajnykh		there have been calculated the norms of radionuclides permissible content in concrete		
	Antsypov, GV; Ministehrstva pa		Situatsyyakh i Abarone		forage for cattle on the basis of typical rations and the certain scheme of young stock		
	Nadzvychajnykh Situatsyyakh i		Nasel'nitstva ad Vynikaw		breeding and cattle fattening has been proposed Forecasting of agricultural products		
	Abarone Nasel'nitstva ad		Katastrofy na Charnobyl'skaj		contamination and the efficiency of protective measures are given 5 tabs, 12 figs		
	Vynikaw Katastrofy na		AEhS Rehspubliki Belarus', Minsk		, ,		
	Charnobyl'skaj AEhS Rehspubliki		(Belarus); Akadehmiya Navuk				
	Belarus', Minsk (Belarus)		Belarusi, Minsk (Belarus).; The				
	(Chernobyl catastrophe				
			consequences in the Republic of				
			Belarus. National report; 88 p.;				
			Mar 1996.; p. 54-69.; INIS-mf				
			14751.;				
			ĺ				
				ĺ			

Transfer coefficients of radionuclides	Radioactive Waste	1995	Mar 1995.; 155 p.; RWMC95-P-	Report	The accumulation of data on radionuclide transfer are poor in Japan and those are	Japanese	Japan	28012585
from feed to livestock products	Management Center, Tokyo		17.;		limited to "9"0Sr, "1"3"7Cs and "1"3"1I released from the previous atomic bomb			
	(Japan)		,		experiments However, in Europe, intensive studies on environment RI level which			
	(affects the restriction of the intake for meats and milk products have been made as the			
					measures against the environment radioactivity due to Chernobyl accident The transfer			
					coefficients of radionuclides to meats and milk products were estimated on a basis of			
					the data published in the Science of the Total Environment vol85(1989), Oxford			
					University and CEC Radiation Protection, EUR 12608 EN, Luxembourg, 1990 in addition			
					to the data on Exclusion of Radioactivity from foods, Environment Parameter, series No			
					4 On the other hand, the transfer coefficients for Japanese were estimated using the			
					concerned data from published reports and the environment radioactivity data			
					reported by national and local government bodies In this book, many new data of			
				1	transfer coefficient are presented in tables along with the previous data collected by			
					international nuclear energy agencies and respective national facilities concerned (MN)			
	D	1006	4000 405 1 17 1 1				-	20027000
Agriculture, environment and nuclear	Ponchet, M; Metivier, H; CEA	1996	1996.; 105 p.; Institut de	Book	This work is a contribution to the estimates of accidental contamination consequences		France	28027899
facilities: how to react in the case of an	,		Protection et de Surete		This estimates will provide a way to intervene as quickly as possible and with measures			
accident	aux-Roses, 92 (France) Inst de		Nucleaire.; Paris (France).;		adapted to the situation The different chapters present a knowledge assessment on			
	Protection et de Surete		ISBN 2-950-84970-9.;		1)the way the contamination of the different media (air, water, soils, cattle, plants, non			
	Nucleaire				cultivated natural medium, buildings, equipment) and the different productions (milk,			
					cereals, meat, vegetables, forage, fruits, vine, fish breeding) take place 2)the hazards			
					which can result of the contamination and 3)the prevention means They are preceded			
					by a short description of what is a nuclear accident, its seriousness and the probability			
					it happens as well as the characteristics of the main radioisotopes which would be			
					issued (OM)			
Behavior of "1"3"7Cs in Nothern	Papastefanou, C;	1996	Journal of Radioecology.; (1996).	Journal	The levels of Chernobyl-derived "1"3"7Cs were measured at Thessaloniki, Greece in air,	English	Slovakia	28067417
Greece one Decade after Chernobyl	Manolopoulou, M; Stoulos, S;		p. 9-14.; v. 4(1).;		precipitation, soil, grass and milk as well as in various items of food products 10 years			
	Ioannidou, A; Thessaloniki Univ				after the accident The data show significant variations particularly in the spring and			
	(Greece) Dept of Nuclear				autumn measurements In interpreting these variations, injections into the atmosphere			
	Physics			1	from the troposphere or possibility the stratosphere from the Chernobyl accident,			
				1	nuclear weapons testing, and other releases from nuclear reactors operating world-			
				1	wide have been taken into consideration Estimates of the removal half-time of			
				1	"1"3"7Cs in air and grass resulted in 16 months (1 1/3 years) and 40 months (3 1/3			
					years), respectively, much shorter than its physical half-life 3014 years) (Author) 3 tabs,			
					4 figs, 7 refs			

Radionuclide migration in the soil-feed-	Karpenko, AF: Gomel'ski	1996	Konoplya, E.F.; Amvros'ev, A.P.;	Miscellaneous	Short communication	Russian	Belarus	28067663
animals chain	Dzyarzhawny Univ, Gomel		Bogdevich, I.M.; Bondar', Yu.I.;					
	(Belarus)		Karaseva, E.I.; Lobanok, L.M.;					
	l` ,		Matsko, V.P.; Pikulik, M.M.;					
			Rolevich, I.V.; Stozharov, A.N.;					
			Yakushev, B.I.; Ministehrstva pa					
			Nadzvychajnykh Situatsyyakh i					
			Abarone Nasel'nitstva ad					
			Vynikaw Katastrofy na					
			Charnobyl'skaj AEhS Rehspubliki					
			Belarus', Minsk (Belarus);					
			Akadehmiya Navuk Belarusi,					
			Minsk (Belarus).; Abstracts of					
			papers of international scientific					
			conference 'Ten years after the					
			Chernobyl catastrophe (scientific					
			aspects of problem)'; 331 p.; Feb					
			1996.; p. 133.; International					
			scientific conference 'Ten years					
			after the Chernobyl catastrophe					
			(scientific aspects of problem)'.;					
			Minsk (Belarus).; 28-29 Feb					
			1996.; INIS-mf14802.;					
Radiation protection for human	Kenigsberg, YaEh; Navukova-	1997	Konoplya, E.F.; Natsyyanal'naya	Miscellaneous	Are given the results of researches carried out in Belarus in 1996 on the following	Russian	Belarus	29049359
population	dasledchy inst radyyatsyjnaj		Akadehmiya Navuk Belarusi,		directions: study of features of formation of the population irradiation doze definition			
	medytsyny, Minsk (Belarus);		Minsk (Belarus). Inst.		of collective irradiation dozes of the population of Belarus for 10 years after the			
	Bogdevich, IM; Belaruski		Radyyabiyalogii; Rolevich, I.V.;		Chernobyl accident and forecast of risk of radiation induced diseases study of influence			
	navukova-dasledchy inst		Ministehrstva pa Nadzvychajnykh		of the radioactive contamination on agricultural ecosystems development of			
	pochvaznawstva i agrakhimii,		Situatsyyakh Rehspubliki Belarus',		technologies of manufacture on the contaminated soils of plant and cattle-breeding			
	Minsk (Belarus); Rolevich, IV;		Minsk (Belarus); Ministehrstva pa		production and food products with the permissible contents of radionuclides in			
	Sharovarov, GA; Skurat, VV; Inst		Nadzvychajnykh Situatsyyakh		according to the requirements of radiation protection development and perfection of			
	radyyaehkalagichnykh prablem,		Rehspubliki Belarus', Minsk		complex technologies, ways and means of decontamination, processing and burial of			
	Minsk (Belarus)		(Belarus); Natsyyanal'naya		radioactive wastes development and substantiation of actions for increase of radiation			
			Akadehmiya Navuk Belarusi,		security of the population of Belarus development of combined system of an			
			Minsk (Belarus). Inst. Radyyabiyalogii; The main results		estimation on problems of radiation protection of the population living on contaminated territories			
			of fulfilment in 1996 of the		Contaminated territories			
			scientific part of the State					
			programme of the Republic of					
			Belarus for minimization and					
			overcoming of the Chernobyl					
			NPP accident consequences					
			(1996-2000); 202 p.; 1997; p. 10-					
			54; INIS-BY006;					
			3 ., 51 000,					
		l	i	1		l .		1

Radiocesium burden in wild boar: causes and trends until today	Pohlschmidt, J; Staatliches Veterinaeruntersuchungsamt, Hannover (Germany)	2000	StrahlenschutzPraxis (Koeln); 2000; p. 29-33; v. 6(3);	Journal	The examination of nearly 500 samples showed, that in certain circumstances the radiocesium contamination of wild boars is depending on the supply with seeds of oaks and beeches If this regionally very important nourishment is missing, the boars are forced to gain feed by rooting the upper soil-layers The radiocesium-contamination of soil in forests will decrease very slowly, because cesium remains nearly completely in the upper layers So diminution is given mainly by the half-life of "1"3"7Cs (30 years) In principle the result of this study is transferable to all (noxious) components which are existing in those soil-layers The dependance between acorn-mast and the contamination of wild boars requires appropriate care, especially if trend-studies are carried out (orig)	German	Germany	32034434
WAVFH delegates' reports: Australia	Scanlan, WA	1986	Report on international round table conference 'Accidental radiation contamination of food of animal origin'. Vol.II (Working papers); 1986; [4 p.]; International round table conference 'Accidental radiation contamination of food of animal origin; Stockholm (Sweden); 26-29 Jan 1987; INIS-XA-C069;	Report	Radiation measuring and control before Chernobyl: Continuous measurements of fallout in different parts of Australia, including the food producing areas, have been made since the mid 1950s Levels have decreased rapidly since the cessation of atmospheric nuclear tests in the Southern Hemisphere in 1974 and in the Northern Hemisphere in 1980 Measurements of concentrations of radionuclides arising from fallout were made for the major groups of foods affected by the radioactive contaminants, starting in the 1950s and continuing until concentrations were so low that further effort in measurement was not warranted, ie, less than 01 Bq/kg or 01 Bq/Changes in the concentrations of radionuclides in foods follow the same trends as the fallout levels Based on the low levels of fallout measured in Australia since the 1950s, and taking into account the extremely low levels during the past decade, the concentrations of radionuclides arising from fallout in foods grown and processed in Australia are extremely small Results from the fall-out from Chernobyl Since the Chernobyl accident, measurements of the concentrations of "1"3"7Cs in a variety of foodstuffs grown in Australia have been made, mainly for export purposes A summary of the results of these measurements is given in Table 111 of Attachment 2 No "1"3"4Cs has been detected, nor is it likely to be By taking into account these measurements, the earlier measurements of foodstuffs, predictive modelling values and the very low levels of fall-out in deposit and in air, it is concluded that the concentrations of "1"3"7Cs in all foodstuffs grown in Australia are extremely small Accordingly, their consumption would result in no significant risk to the health of a population With world atmospheric conditions being as they are, it will probably be 12 to 18 months before any fallout reaches Australia Even if some fall-out does occur, it will be minimal and should not significantly increase our very low natural levels Thus our exports of raw and processed foods are not and should		International Atomic Energy Agency (IAEA)	36080751

Contamination lovels changed and the	Hoof Lyan, State University of	1006	Donort on international round	Papart	Contaminated air masses reached the Bolgian towitary from the Couth during the might	English	International	26000752
Contamination levels observed on the Belgian territory subsequent to the Chernobyl accident	Hoof, J van; State University of Ghent, Faculty of Veterinary Medicine, Gent (Belgium); Maghuin-Rogister, G; Universite de Liege, Brussels (Belgium)	1986	Report on international round table conference 'Accidental radiation contamination of food of animal origin'. Vol.II (Working papers); 1986; [21 p.]; International round table conference 'Accidental radiation contamination of food of animal origin; Stockholm (Sweden); 26-29 Jan 1987; INIS-XA-C069; 2 refs, 15 figs, 5 tabs;	Report	Contaminated air masses reached the Belgian territory from the South during the night of the first to the second of May At this stage however the origin of this contamination was already identified through earlier observations over the Scandinavian area and the subsequent message about the reactor accident at the Chernobyl site Later on radioactive clouds were also detected over the central part of Europe, demonstrating the persistent nature of the emissions from the damaged reactor Consequently the influence on the Belgian territory was not unexpected The authorities called on the SCK/CEN at Mol, and the IRE at Fleurus to assist the IHE at Brussels in collecting the necessary data for judging the radiological situation in our country The KMI/IRM at Brussels was involved for the follow-up of meteorological conditions and analysis of the trajectories of contaminated air masses Early detection possibilities for the arrival of contaminated air were provided by the continuous environmental monitoring apparatus for ambient #gamma#-dose rate or for #BETA# activity of airborne dust, available at nuclear institutions and nuclear power plants On detection of enhanced air radioactivity, the sampling period of routine air dust samplers was significantly shortened to allow for the hour to hour renewal of data for gross #BETA# activity as a	English	International Atomic Energy Agency (IAEA)	36080752
					shortened to allow for the hour to hour renewal of data for gross #BETA# activity as a general indication of the evolution of the air contamination #gamma#-spectrometric analysis of those filters provided the necessary data for the estimation of the dose equivalent due to inhalation Ground deposition data at the location of the participating institutions were obtained by daily analysis of the radioactivity contents of a water container collecting both dust and rainwater Field gamma spectrometry was used later on at a number of other locations, to estimate the integrated ground deposition of radioactivity and its distribution over the country As the grazing season was just started or was about to be started in the following days for regions of higher altitude (Ardennes), the food chain grass-milk was intensively surveyed in first instance in respect of iodine-131 contamination Extensive grass sample measurements were carried out during the first week of May, until further significant deposition ceased Milk			
WAVFH delegates' reports: China	Deng Mingyi; Hunan Import and Export Commodity Inspection, Bureau of the People's Republic of China, Chansha (China)	1986	Report on international round table conference 'Accidental radiation contamination of food of animal origin'. Vol.II (Working papers); 1986; [4 p.]; International round table conference 'Accidental radiation contamination of food of animal origin; Stockholm (Sweden); 26-29 Jan 1987; INIS-XA-C069;	Report	The work of radiation protection has been given great attention in China The Ministry of Health is the competent authority in charge of the work Before the accident at Chernobyl, the government had formulated and promulgated laws and regulations concerning the radiation protection, such as the Basic Standard for Radiation Protection, the Basic Standard for Radiation Protection of Nuclear Plants, the institutions and organizations for monitoring radioactive pollution at national level and provincial level had been set up After the accident at Chernobyl, each of the monitoring institutions and organizations took samples of air, subsided substances of atmosphere, rainwater, terrestrial surface water from various sources, vegetables, milk and thyroid glands of sheep and goats immediately, for the detection of radiation contamination As far as we know that the samples had small extent contamination, the extent of contamination of samples in the south of China is smaller than that of samples in the north of China, that the content of nuclides in various samples is lower than the limits of radioactive substances set in national standard, and that radiation dosage subjected by residents of China caused by the contamination is also lower than the set quota in the national standard The contamination did not interfere with the regular life of the residents	English	International Atomic Energy Agency (IAEA)	36080753

The monitoring of radioactive substances in biological food chains by the veterinary service in Czechoslovakia	Pawel, O; Central State Veterinary Institute, Prague, Czechoslovakia (Czech Republic)	1986	Report on international round table conference 'Accidental radiation contamination of food of animal origin'. Vol.II (Working papers); 1986; [6 p.]; International round table conference 'Accidental radiation contamination of food of animal origin; Stockholm (Sweden); 26-29 Jan 1987; INIS-XA-C069;	Report	Czechoslovakia has established an environmental monitoring system to protect the hygienic conditions of the environment from the radiation hazard The control authorities of the Ministry of Agriculture and Food take part in this system in order to collect information on the contamination with radioactive substances of soil, plants, game, food animals, foodstuffs and raw materials, ie information on all links of the food chain which extends from animals to man A radioactive substances detection programme has been launched by the appropriate authorities in agriculture, animal husbandry and veterinary service The programme includes a two-stage laboratory analysis of radioactive substances The majority of laboratories covering the programme are already in operation	English	International Atomic Energy Agency (IAEA)	36080754
The response of the radionuclide monitoring programme for agricultural products in Great Britain to the accident at Chernobyl	Morris, JA; Central Veterinary Laboratory, Weybridge, Surrey (United Kingdom)	1986	Report on international round table conference 'Accidental radiation contamination of food of animal origin'. Vol.II (Working papers); 1986; [12 p.]; International round table conference 'Accidental radiation contamination of food of animal origin; Stockholm (Sweden); 26-29 Jan 1987; INIS-XA-C069; 1 fig, 3 tabs;	Report	The overall objective of the radiation monitoring and control programme of the Ministry of Agriculture, Fisheries and Food in Great Britain is to ensure the safety of foodstuffs The particular responsibility of my department within the Ministry is the analysis of agricultural products for the presence of radionuclides entering the human food chain from atmospheric releases The Ministry also has a laboratory which monitors the marine environment This presentation describes the surveillance programme for agricultural foodstuffs and show how it was used to monitor the deposition from the Chernobyl accident, and shows some of the monitoring data obtained and indicate how the information was used in formulating protective measures It also mentions future plans	English	International Atomic Energy Agency (IAEA)	36080757
Radiation levels in milk and meat in Ireland after Chernobyl	Dodd, Kevin; Hannan, John; Department of Farm Animal Clinical Studies, Faculty of Veterinary Medicine, University College Dublin, Dublin (Ireland)	1986	Report on international round table conference 'Accidental radiation contamination of food of animal origin'. Vol.II (Working papers); 1986; [4 p.]; International round table conference 'Accidental radiation contamination of food of animal origin; Stockholm (Sweden); 26-29 Jan 1987; INIS-XA-C069; 4 figs;	Report	The island of Ireland has no nuclear energy industry and national power requirements are met by a combination of peat, gas and imported oil We are acutely conscious of the proximity of nuclear installations on the West Coast of Britain and much effort is expended on monitoring the marine environment, particularly seaweed, fish and sediment The Nuclear Energy Board is a government appointed body charged with the responsibility of regulating the use of radioactive materials in Irish hospitals laboratories and industry and with monitoring the radioactivity of food and in the air It is very well recognised in Ireland that our reputation for clean food is crucial for our economic development and recent events have ensured increased emphasis on food monitoring for levels of radioactivity Since the Chernobyl accident and with increased awareness of the vulnerability of our agriculture industry to airborne contamination, the resources of the Nuclear Energy Board has been stretched to the limit and there is an increased level of co-operative work with the physics department of the universitisu University College Dublin Physics Department have monitored the milk used in the greater Dublin area since Chernobyl and it's in this area I wish to report The sampling techniques were based on a random sampling of milk over a wide area and a detailed sampling on a daily basis of milk from the University Farm which is situated about 12 kilometers from Dublin, and have continued to date Results: In the random milk supply the level of 1131 and Cs137 rose from a background level of approx 2-3bq/litre to approx 300 bq/litre shortly after the plume reached Ireland on May 2nd 1986 One sample with 400 bq/litre 1131 was observed These levels fell rapidly over the next 2 weeks and settled down to levels of about 10-20 bq/litre On the University Farm there was a difference between the levels in the morning and evening milk production as illustrated, probably due to the time intervals between milking There was a steady drog in the levels of		International Atomic Energy Agency (IAEA)	36080758

Radioactive contamination of food in	Milohnoja, M; Veterinary	1986	Report on international round	Report	This review of the situation and of measures on veterinary inspection is confined to	English	International	36080763
Slovenia after Chernobyl incident	College, Ljubljana (Yugoslavia)		table conference 'Accidental		Slovenia (the most northern republic of SFR Yugoslavia) First analysis of grass and rain-		Atomic Energy	
,			radiation contamination of food		water made on 30 April 1986 showed that Slovenian agricultural superficies are		Agency (IAEA)	
			of animal origin'. Vol.II (Working		contaminated with J-131 and Cs-137 A program of monitoring grass, rain-water, milk,			
			papers); 1986; [4 p.];		meat of slaughter animals and game, fish, eggs and other food (vegetables) was made			
			International round table		The degree of contamination of milk with J-131 was very high in the first 10 days of			
			conference 'Accidental radiation		month May, then rapidly lowered All dairy cattle kept indoors, fed with old feeding			
			contamination of food of animal		stuff and watered with drinking water had milk with less than 60 Bq/l J-131 After 10			
			origin; Stockholm (Sweden); 26-		May the degree of contamination of milk with Cs-137 and Cs-134 began slowly to			
			29 Jan 1987; INIS-XA-C069; 6		increase, but in June to decrease, so that most of the examined samples had less than			
			tabs;		100 Bq/l Cs-137 and Cs-134 All milk (from the areas) with more than 200 Bq/l J-131 was	,		
					sent to milk powder factory or to cheese-dairies Analyses (made in July and August) of			
					this milk powder showed that J-131 has almost 'disappeared', the content of Cs-137			
					and Cs-134 varied from 504 to 1150 Bq/l (ie 63 to 144 Bq/l in reconstituted milk) in			
					cheese the content of Cs-137 and Cs-134 was lower than 100 Bq/kg			
Transfer of radiocaesium and	Semioshkina, N; Voigt, G;	2004	Institut de Radioprotection et de	Miscellaneous	Over a period of 40 years the Semipalatinsk nuclear test site (STS) located in the	English	France	37012812
radiostrontium to horse and sheep mill	Savinkov, A; Mukusheva, M;		Surete Nucleaire, IRSN, 92 -		Republic of Kazakhstan was the most important site for testing atomic bombs and			
and meat	GSF-Institute of Radiation		Fontenay-aux-Roses (France);		other civil and military nuclear devices of the former Soviet Union resulting in a total of			
	Protection, Neuherberg,		Conference ECORAD 2004 - the		456 nuclear tests Until 1989 access to the STS was restricted and the area was not used			
	(Germany)		scientific basis for environment		for agriculture, but since closure of the test site agricultural activities have restarted			
			protection against radioactivity.		Herds of sheep and horses belonging to collective farms around the STS are grazing			
			Abstracts; 294 p.; 2004; p. 162;		without any restriction including the areas of Ground Zero, Lake Balapan and the			
			Conference ECORAD 2004 - the		Degelen mountains identified as potential high contaminated sites In the literature			
			scientific basis for environment		there is no information available on the transfer of radionuclides from vegetation to			
			protection against radioactivity;		meat and milk of horses, representing a major component of the diet of the local			
			Aix-en-Provence (France); 6-10		population of the STS As a consequence, the transfer of radiocaesium and			
			Sep 2004; INIS-FR3981;		radiostrontium to horse meat and milk has been studied in the laboratory and under			
					field conditions representative for the Semipalatinsk test site in Kazakhstan by us to be			
					included in site specific dose calculation models for dose estimates The transfer of			
					radiocaesium and radiostrontium to sheep has been well investigated and quantified in			
					the consequence of the Chernobyl accident and many laboratory studies mainly in the			
					EC However, few information on the behaviour on these radionuclides in non-European	n		
					environments is available In order to better and more reliable predict doses received			
					by the local population of the STS experimental transfer studies in the field and in			
					laboratory have been conducted In this contribution the results of experiments on site-			
					specific transfer behaviour of two important radionuclides to major diet components			
					(sheep and horse milk and meat) to the local population in Kazakhstan is presented It			
					has been realized in this work for the first time under field and laboratory conditions			
					(author)			

Deduction of activity concentration of	Duarak D. Hatau bia shamia	2006	Toronilo M. Donovo K.	Missellansous	The most (Cus strome) was salted (Fig NaCl to 100 g most) hefers proporation by best	Canah	Clavalda	37103170
Reduction of activity concentration of	Dvorak, P; Ustav biochemie,	2006	Toropila, M.; Benova, K.;	Miscellaneous	The meat (Sus stroma) was salted (5 g NaCl to 100 g meat) before preparation by heat	Czech	Slovakia	3/1031/0
radiocesium in meat by preparation of	chemie a biofyziky, Fakulta		Hromada, R.; Falis, M.; Danova,		pressure bowling - 15 minutes There was reached drop of activity concentration of			
heat-pressure bowling	veterinarni hygieny a ekologie,		D.; Novakova, J.; Ustav		radiocesium about 50 % (from 427 % to 583 %) The meat had activity concentration of			
	Veterinarni a farmaceuticka		radiobiologie, Katedra zivotneho		radiocesium 106 Bq #centre dot# kg"-"1 The activity concentration of radiocesium was			
	univerzita, 61242 Brno (Czech		prostredia, Univerzita		reduced on average to 53 Bq #centre dot# kg"-"1 The activity concentration of			
	Republic); Kunova, V; Statni		veterinarneho lekarstva, 04181		"1"3"7Cs was measured by gamma-spectrometry (authors)			
	zemedelska a potravinarska		Kosice (Slovakia); Dvorak, P.;					
	inspekce, Ustredni inspektorat,		Ustav biochemie, chemie a					
	60300 Brno (Czech Republic)		biofyziky, Fakulta veterinarni					
			hygieny a ekologie, Veterinarni a					
			farmaceuticka univerzita, 61242					
			Brno (Czech Republic); Ustav					
			radiobiologie, Katedra zivotneho					
			prostredia, Univerzita					
			veterinarneho lekarstva, 04181					
			Kosice (Slovakia); University of					
			Veterinary Medicine; Kosice					
			(Slovakia); Proceedings of the					
			6"r"d Radiobiological conference					
			with international participation					
			dedicated to 20"t"h anniversary					
			of nuclear accident in Chernobyl,					
			2006; 386 p.; May 2006; p. 141-					
			145; 3. Radiobiological					
			conference 2006; Kosice					
			(Slovakia); 25 May 2006; INIS-SK-					
			-2006-018A; Project					
Modelling "3H and "1"4C transfer to	Galeriu, D; galdan@ifinnipnero;	2007	Journal of Environmental	Journal	The radionuclides "1"4C and "3H may both be released from nuclear facilities These	English	United Kingdom	39054914
Modelling "3H and "1"4C transfer to farm animals and their products under	National Institute for Physics	2007	Radioactivity; Nov 2007; p. 205-	Journal	radionuclides are unusual, in that they are isotopes of macro-elements which form the	English	United Kingdom	39054914
	National Institute for Physics and Nuclear Engineering 'Horia	2007	Radioactivity; Nov 2007; p. 205- 217; v. 98(1-2);	Journal	radionuclides are unusual, in that they are isotopes of macro-elements which form the basis of animal tissues, feed and, in the case of "3H, water There are few published	English	United Kingdom	39054914
farm animals and their products under	National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department	2007	Radioactivity; Nov 2007; p. 205- 217; v. 98(1-2); 10.1016/j.jenvrad.2006.11.010;	Journal	radionuclides are unusual, in that they are isotopes of macro-elements which form the basis of animal tissues, feed and, in the case of "3H, water There are few published values describing the transfer of "3H and "1"4C from feed to animal derived food	English	United Kingdom	39054914
farm animals and their products under	National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and	2007	Radioactivity; Nov 2007; p. 205- 217; v. 98(1-2); 10.1016/j.jenvrad.2006.11.010; S0265-931X(07)00179-8;	Journal	radionuclides are unusual, in that they are isotopes of macro-elements which form the basis of animal tissues, feed and, in the case of "3H, water There are few published values describing the transfer of "3H and "1"4C from feed to animal derived food products under steady state conditions Approaches are described which enable the	English	United Kingdom	39054914
farm animals and their products under	National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO	2007	Radioactivity; Nov 2007; p. 205- 217; v. 98(1-2); 10.1016/j.jenvrad.2006.11.010; S0265-931X(07)00179-8; Available from	Journal	radionuclides are unusual, in that they are isotopes of macro-elements which form the basis of animal tissues, feed and, in the case of "3H, water There are few published values describing the transfer of "3H and "1"4C from feed to animal derived food products under steady state conditions Approaches are described which enable the prediction of "1"4C and "3H transfer parameter values from readily available	English	United Kingdom	39054914
farm animals and their products under	National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele	2007	Radioactivity; Nov 2007; p. 205- 217; v. 98(1-2); 10.1016/j.jenvrad.2006.11.010; S0265-931X(07)00179-8; Available from http://dx.doi.org/10.1016/j.jenvr	Journal	radionuclides are unusual, in that they are isotopes of macro-elements which form the basis of animal tissues, feed and, in the case of "3H, water There are few published values describing the transfer of "3H and "1"4C from feed to animal derived food products under steady state conditions Approaches are described which enable the prediction of "1"4C and "3H transfer parameter values from readily available information on the stable H or C concentration of animal feeds, tissues and milk, water	English	United Kingdom	39054914
farm animals and their products under	National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele RO-077125 (Romania);	2007	Radioactivity; Nov 2007; p. 205- 217; v. 98(1-2); 10.1016/j.jenvrad.2006.11.010; S0265-931X(07)00179-8; Available from http://dx.doi.org/10.1016/j.jenvr ad.2006.11.010; Copyright (c)	Journal	radionuclides are unusual, in that they are isotopes of macro-elements which form the basis of animal tissues, feed and, in the case of "3H, water There are few published values describing the transfer of "3H and "1"4C from feed to animal derived food products under steady state conditions Approaches are described which enable the prediction of "1"4C and "3H transfer parameter values from readily available information on the stable H or C concentration of animal feeds, tissues and milk, water turnover rates, and feed intakes and digestibilities We recommend that the	English	United Kingdom	39054914
farm animals and their products under	National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele RO-077125 (Romania); Melintescu, A; National	2007	Radioactivity; Nov 2007; p. 205- 217; v. 98(1-2); 10.1016/j.jenvrad.2006.11.010; S0265-931X(07)00179-8; Available from http://dx.doi.org/10.1016/j.jenvr ad.2006.11.010; Copyright (c) 2007 Elsevier Science B.V.,	Journal	radionuclides are unusual, in that they are isotopes of macro-elements which form the basis of animal tissues, feed and, in the case of "3H, water There are few published values describing the transfer of "3H and "1"4C from feed to animal derived food products under steady state conditions Approaches are described which enable the prediction of "1"4C and "3H transfer parameter values from readily available information on the stable H or C concentration of animal feeds, tissues and milk, water turnover rates, and feed intakes and digestibilities We recommend that the concentration ratio between feed and animal product activity concentrations be used	English	United Kingdom	39054914
farm animals and their products under	National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele RO-077125 (Romania); Melintescu, A; National Institute for Physics and Nuclear	2007	Radioactivity; Nov 2007; p. 205- 217; v. 98(1-2); 10.1016/j.jenvrad.2006.11.010; S0265-931X(07)00179-8; Available from http://dx.doi.org/10.1016/j.jenvr ad.2006.11.010; Copyright (c) 2007 Elsevier Science B.V., Amsterdam, The Netherlands, All	Journal	radionuclides are unusual, in that they are isotopes of macro-elements which form the basis of animal tissues, feed and, in the case of "3H, water There are few published values describing the transfer of "3H and "1"4C from feed to animal derived food products under steady state conditions Approaches are described which enable the prediction of "1"4C and "3H transfer parameter values from readily available information on the stable H or C concentration of animal feeds, tissues and milk, water turnover rates, and feed intakes and digestibilities We recommend that the concentration ratio between feed and animal product activity concentrations be used as it is less variable than the transfer coefficient (ratio between radionuclide activity	English	United Kingdom	39054914
farm animals and their products under	National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele RO-077125 (Romania); Melintescu, A; National Institute for Physics and Nuclear Engineering 'Horia Hulubei',	2007	Radioactivity; Nov 2007; p. 205- 217; v. 98(1-2); 10.1016/j.jenvrad.2006.11.010; S0265-931X(07)00179-8; Available from http://dx.doi.org/10.1016/j.jenvr ad.2006.11.010; Copyright (c) 2007 Elsevier Science B.V.,	Journal	radionuclides are unusual, in that they are isotopes of macro-elements which form the basis of animal tissues, feed and, in the case of "3H, water There are few published values describing the transfer of "3H and "1"4C from feed to animal derived food products under steady state conditions Approaches are described which enable the prediction of "1"4C and "3H transfer parameter values from readily available information on the stable H or C concentration of animal feeds, tissues and milk, water turnover rates, and feed intakes and digestibilities We recommend that the concentration ratio between feed and animal product activity concentrations be used	English	United Kingdom	39054914
farm animals and their products under	National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele RO-077125 (Romania); Melintescu, A; National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of	2007	Radioactivity; Nov 2007; p. 205- 217; v. 98(1-2); 10.1016/j.jenvrad.2006.11.010; S0265-931X(07)00179-8; Available from http://dx.doi.org/10.1016/j.jenvr ad.2006.11.010; Copyright (c) 2007 Elsevier Science B.V., Amsterdam, The Netherlands, All	Journal	radionuclides are unusual, in that they are isotopes of macro-elements which form the basis of animal tissues, feed and, in the case of "3H, water There are few published values describing the transfer of "3H and "1"4C from feed to animal derived food products under steady state conditions Approaches are described which enable the prediction of "1"4C and "3H transfer parameter values from readily available information on the stable H or C concentration of animal feeds, tissues and milk, water turnover rates, and feed intakes and digestibilities We recommend that the concentration ratio between feed and animal product activity concentrations be used as it is less variable than the transfer coefficient (ratio between radionuclide activity	English	United Kingdom	39054914
farm animals and their products under	National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele RO-077125 (Romania); Melintescu, A; National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life,	2007	Radioactivity; Nov 2007; p. 205- 217; v. 98(1-2); 10.1016/j.jenvrad.2006.11.010; S0265-931X(07)00179-8; Available from http://dx.doi.org/10.1016/j.jenvr ad.2006.11.010; Copyright (c) 2007 Elsevier Science B.V., Amsterdam, The Netherlands, All	Journal	radionuclides are unusual, in that they are isotopes of macro-elements which form the basis of animal tissues, feed and, in the case of "3H, water There are few published values describing the transfer of "3H and "1"4C from feed to animal derived food products under steady state conditions Approaches are described which enable the prediction of "1"4C and "3H transfer parameter values from readily available information on the stable H or C concentration of animal feeds, tissues and milk, water turnover rates, and feed intakes and digestibilities We recommend that the concentration ratio between feed and animal product activity concentrations be used as it is less variable than the transfer coefficient (ratio between radionuclide activity	English	United Kingdom	39054914
farm animals and their products under	National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele RO-077125 (Romania); Melintescu, A; National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box	2007	Radioactivity; Nov 2007; p. 205- 217; v. 98(1-2); 10.1016/j.jenvrad.2006.11.010; S0265-931X(07)00179-8; Available from http://dx.doi.org/10.1016/j.jenvr ad.2006.11.010; Copyright (c) 2007 Elsevier Science B.V., Amsterdam, The Netherlands, All	Journal	radionuclides are unusual, in that they are isotopes of macro-elements which form the basis of animal tissues, feed and, in the case of "3H, water There are few published values describing the transfer of "3H and "1"4C from feed to animal derived food products under steady state conditions Approaches are described which enable the prediction of "1"4C and "3H transfer parameter values from readily available information on the stable H or C concentration of animal feeds, tissues and milk, water turnover rates, and feed intakes and digestibilities We recommend that the concentration ratio between feed and animal product activity concentrations be used as it is less variable than the transfer coefficient (ratio between radionuclide activity	English	United Kingdom	39054914
farm animals and their products under	National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele RO-077125 (Romania); Melintescu, A; National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele RO-	2007	Radioactivity; Nov 2007; p. 205- 217; v. 98(1-2); 10.1016/j.jenvrad.2006.11.010; S0265-931X(07)00179-8; Available from http://dx.doi.org/10.1016/j.jenvr ad.2006.11.010; Copyright (c) 2007 Elsevier Science B.V., Amsterdam, The Netherlands, All	Journal	radionuclides are unusual, in that they are isotopes of macro-elements which form the basis of animal tissues, feed and, in the case of "3H, water There are few published values describing the transfer of "3H and "1"4C from feed to animal derived food products under steady state conditions Approaches are described which enable the prediction of "1"4C and "3H transfer parameter values from readily available information on the stable H or C concentration of animal feeds, tissues and milk, water turnover rates, and feed intakes and digestibilities We recommend that the concentration ratio between feed and animal product activity concentrations be used as it is less variable than the transfer coefficient (ratio between radionuclide activity	English	United Kingdom	39054914
farm animals and their products under	National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele RO-077125 (Romania); Melintescu, A; National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele RO-077125 (Romania); Beresford,	2007	Radioactivity; Nov 2007; p. 205- 217; v. 98(1-2); 10.1016/j.jenvrad.2006.11.010; S0265-931X(07)00179-8; Available from http://dx.doi.org/10.1016/j.jenvr ad.2006.11.010; Copyright (c) 2007 Elsevier Science B.V., Amsterdam, The Netherlands, All	Journal	radionuclides are unusual, in that they are isotopes of macro-elements which form the basis of animal tissues, feed and, in the case of "3H, water There are few published values describing the transfer of "3H and "1"4C from feed to animal derived food products under steady state conditions Approaches are described which enable the prediction of "1"4C and "3H transfer parameter values from readily available information on the stable H or C concentration of animal feeds, tissues and milk, water turnover rates, and feed intakes and digestibilities We recommend that the concentration ratio between feed and animal product activity concentrations be used as it is less variable than the transfer coefficient (ratio between radionuclide activity	English	United Kingdom	39054914
farm animals and their products under	National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele RO-077125 (Romania); Melintescu, A; National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele RO-077125 (Romania); Beresford, NA; Centre for Ecology and	2007	Radioactivity; Nov 2007; p. 205- 217; v. 98(1-2); 10.1016/j.jenvrad.2006.11.010; S0265-931X(07)00179-8; Available from http://dx.doi.org/10.1016/j.jenvr ad.2006.11.010; Copyright (c) 2007 Elsevier Science B.V., Amsterdam, The Netherlands, All	Journal	radionuclides are unusual, in that they are isotopes of macro-elements which form the basis of animal tissues, feed and, in the case of "3H, water There are few published values describing the transfer of "3H and "1"4C from feed to animal derived food products under steady state conditions Approaches are described which enable the prediction of "1"4C and "3H transfer parameter values from readily available information on the stable H or C concentration of animal feeds, tissues and milk, water turnover rates, and feed intakes and digestibilities We recommend that the concentration ratio between feed and animal product activity concentrations be used as it is less variable than the transfer coefficient (ratio between radionuclide activity	English	United Kingdom	39054914
farm animals and their products under	National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele RO-077125 (Romania); Melintescu, A; National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele RO-077125 (Romania); Beresford, NA; Centre for Ecology and Hydrology, CEH Lancaster,	2007	Radioactivity; Nov 2007; p. 205- 217; v. 98(1-2); 10.1016/j.jenvrad.2006.11.010; S0265-931X(07)00179-8; Available from http://dx.doi.org/10.1016/j.jenvr ad.2006.11.010; Copyright (c) 2007 Elsevier Science B.V., Amsterdam, The Netherlands, All	Journal	radionuclides are unusual, in that they are isotopes of macro-elements which form the basis of animal tissues, feed and, in the case of "3H, water There are few published values describing the transfer of "3H and "1"4C from feed to animal derived food products under steady state conditions Approaches are described which enable the prediction of "1"4C and "3H transfer parameter values from readily available information on the stable H or C concentration of animal feeds, tissues and milk, water turnover rates, and feed intakes and digestibilities We recommend that the concentration ratio between feed and animal product activity concentrations be used as it is less variable than the transfer coefficient (ratio between radionuclide activity	English	United Kingdom	39054914
farm animals and their products under	National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele RO-077125 (Romania); Melintescu, A; National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele RO-077125 (Romania); Beresford, NA; Centre for Ecology and Hydrology, CEH Lancaster, Lancaster Environment Centre,	2007	Radioactivity; Nov 2007; p. 205- 217; v. 98(1-2); 10.1016/j.jenvrad.2006.11.010; S0265-931X(07)00179-8; Available from http://dx.doi.org/10.1016/j.jenvr ad.2006.11.010; Copyright (c) 2007 Elsevier Science B.V., Amsterdam, The Netherlands, All	Journal	radionuclides are unusual, in that they are isotopes of macro-elements which form the basis of animal tissues, feed and, in the case of "3H, water There are few published values describing the transfer of "3H and "1"4C from feed to animal derived food products under steady state conditions Approaches are described which enable the prediction of "1"4C and "3H transfer parameter values from readily available information on the stable H or C concentration of animal feeds, tissues and milk, water turnover rates, and feed intakes and digestibilities We recommend that the concentration ratio between feed and animal product activity concentrations be used as it is less variable than the transfer coefficient (ratio between radionuclide activity	English	United Kingdom	39054914
farm animals and their products under	National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele RO-077125 (Romania); Melintescu, A; National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele RO-077125 (Romania); Beresford, NA; Centre for Ecology and Hydrology, CEH Lancaster, Lancaster Environment Centre, Library Avenue, Bailrigg,	2007	Radioactivity; Nov 2007; p. 205- 217; v. 98(1-2); 10.1016/j.jenvrad.2006.11.010; S0265-931X(07)00179-8; Available from http://dx.doi.org/10.1016/j.jenvr ad.2006.11.010; Copyright (c) 2007 Elsevier Science B.V., Amsterdam, The Netherlands, All	Journal	radionuclides are unusual, in that they are isotopes of macro-elements which form the basis of animal tissues, feed and, in the case of "3H, water There are few published values describing the transfer of "3H and "1"4C from feed to animal derived food products under steady state conditions Approaches are described which enable the prediction of "1"4C and "3H transfer parameter values from readily available information on the stable H or C concentration of animal feeds, tissues and milk, water turnover rates, and feed intakes and digestibilities We recommend that the concentration ratio between feed and animal product activity concentrations be used as it is less variable than the transfer coefficient (ratio between radionuclide activity	English	United Kingdom	39054914
farm animals and their products under	National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele RO-077125 (Romania); Melintescu, A; National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele RO-077125 (Romania); Beresford, NA; Centre for Ecology and Hydrology, CEH Lancaster, Lancaster Environment Centre, Library Avenue, Bailrigg, Lancaster LA1 4AP (United	2007	Radioactivity; Nov 2007; p. 205- 217; v. 98(1-2); 10.1016/j.jenvrad.2006.11.010; S0265-931X(07)00179-8; Available from http://dx.doi.org/10.1016/j.jenvr ad.2006.11.010; Copyright (c) 2007 Elsevier Science B.V., Amsterdam, The Netherlands, All	Journal	radionuclides are unusual, in that they are isotopes of macro-elements which form the basis of animal tissues, feed and, in the case of "3H, water There are few published values describing the transfer of "3H and "1"4C from feed to animal derived food products under steady state conditions Approaches are described which enable the prediction of "1"4C and "3H transfer parameter values from readily available information on the stable H or C concentration of animal feeds, tissues and milk, water turnover rates, and feed intakes and digestibilities We recommend that the concentration ratio between feed and animal product activity concentrations be used as it is less variable than the transfer coefficient (ratio between radionuclide activity	English	United Kingdom	39054914
farm animals and their products under	National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele RO-077125 (Romania); Melintescu, A; National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele RO-077125 (Romania); Beresford, NA; Centre for Ecology and Hydrology, CEH Lancaster, Lancaster Environment Centre, Library Avenue, Bailrigg, Lancaster LA1 4AP (United Kingdom); Crout, NMJ;		Radioactivity; Nov 2007; p. 205- 217; v. 98(1-2); 10.1016/j.jenvrad.2006.11.010; S0265-931X(07)00179-8; Available from http://dx.doi.org/10.1016/j.jenvr ad.2006.11.010; Copyright (c) 2007 Elsevier Science B.V., Amsterdam, The Netherlands, All	Journal	radionuclides are unusual, in that they are isotopes of macro-elements which form the basis of animal tissues, feed and, in the case of "3H, water There are few published values describing the transfer of "3H and "1"4C from feed to animal derived food products under steady state conditions Approaches are described which enable the prediction of "1"4C and "3H transfer parameter values from readily available information on the stable H or C concentration of animal feeds, tissues and milk, water turnover rates, and feed intakes and digestibilities We recommend that the concentration ratio between feed and animal product activity concentrations be used as it is less variable than the transfer coefficient (ratio between radionuclide activity	English	United Kingdom	39054914
farm animals and their products under	National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele RO-077125 (Romania); Melintescu, A; National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele RO-077125 (Romania); Beresford, NA; Centre for Ecology and Hydrology, CEH Lancaster, Lancaster Environment Centre, Library Avenue, Bailrigg, Lancaster LA1 4AP (United Kingdom); Crout, NMJ; University of Nottingham,	2007	Radioactivity; Nov 2007; p. 205- 217; v. 98(1-2); 10.1016/j.jenvrad.2006.11.010; S0265-931X(07)00179-8; Available from http://dx.doi.org/10.1016/j.jenvr ad.2006.11.010; Copyright (c) 2007 Elsevier Science B.V., Amsterdam, The Netherlands, All	Journal	radionuclides are unusual, in that they are isotopes of macro-elements which form the basis of animal tissues, feed and, in the case of "3H, water There are few published values describing the transfer of "3H and "1"4C from feed to animal derived food products under steady state conditions Approaches are described which enable the prediction of "1"4C and "3H transfer parameter values from readily available information on the stable H or C concentration of animal feeds, tissues and milk, water turnover rates, and feed intakes and digestibilities We recommend that the concentration ratio between feed and animal product activity concentrations be used as it is less variable than the transfer coefficient (ratio between radionuclide activity	English	United Kingdom	39054914
farm animals and their products under	National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele RO-077125 (Romania); Melintescu, A; National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele RO-077125 (Romania); Beresford, NA; Centre for Ecology and Hydrology, CEH Lancaster, Lancaster Environment Centre, Library Avenue, Bailrigg, Lancaster LA1 4AP (United Kingdom); Crout, NMJ; University of Nottingham, Division of Agricultural and	2007	Radioactivity; Nov 2007; p. 205- 217; v. 98(1-2); 10.1016/j.jenvrad.2006.11.010; S0265-931X(07)00179-8; Available from http://dx.doi.org/10.1016/j.jenvr ad.2006.11.010; Copyright (c) 2007 Elsevier Science B.V., Amsterdam, The Netherlands, All	Journal	radionuclides are unusual, in that they are isotopes of macro-elements which form the basis of animal tissues, feed and, in the case of "3H, water There are few published values describing the transfer of "3H and "1"4C from feed to animal derived food products under steady state conditions Approaches are described which enable the prediction of "1"4C and "3H transfer parameter values from readily available information on the stable H or C concentration of animal feeds, tissues and milk, water turnover rates, and feed intakes and digestibilities We recommend that the concentration ratio between feed and animal product activity concentrations be used as it is less variable than the transfer coefficient (ratio between radionuclide activity	English	United Kingdom	39054914
farm animals and their products under	National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele RO-077125 (Romania); Melintescu, A; National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele RO-077125 (Romania); Beresford, NA; Centre for Ecology and Hydrology, CEH Lancaster, Lancaster Environment Centre, Library Avenue, Bailrigg, Lancaster LA1 4AP (United Kingdom); Crout, NMJ; University of Nottingham, Division of Agricultural and Environmental Sciences	2007	Radioactivity; Nov 2007; p. 205- 217; v. 98(1-2); 10.1016/j.jenvrad.2006.11.010; S0265-931X(07)00179-8; Available from http://dx.doi.org/10.1016/j.jenvr ad.2006.11.010; Copyright (c) 2007 Elsevier Science B.V., Amsterdam, The Netherlands, All	Journal	radionuclides are unusual, in that they are isotopes of macro-elements which form the basis of animal tissues, feed and, in the case of "3H, water There are few published values describing the transfer of "3H and "1"4C from feed to animal derived food products under steady state conditions Approaches are described which enable the prediction of "1"4C and "3H transfer parameter values from readily available information on the stable H or C concentration of animal feeds, tissues and milk, water turnover rates, and feed intakes and digestibilities We recommend that the concentration ratio between feed and animal product activity concentrations be used as it is less variable than the transfer coefficient (ratio between radionuclide activity	English	United Kingdom	39054914
farm animals and their products under	National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele RO-077125 (Romania); Melintescu, A; National Institute for Physics and Nuclear Engineering 'Horia Hulubei', IFIN-HH, Department of Environmental Physics and Life, 407 Atomistilor Street, PO Box MG-6, Bucharest-Magurele RO-077125 (Romania); Beresford, NA; Centre for Ecology and Hydrology, CEH Lancaster, Lancaster Environment Centre, Library Avenue, Bailrigg, Lancaster LA1 4AP (United Kingdom); Crout, NMJ; University of Nottingham, Division of Agricultural and	2007	Radioactivity; Nov 2007; p. 205- 217; v. 98(1-2); 10.1016/j.jenvrad.2006.11.010; S0265-931X(07)00179-8; Available from http://dx.doi.org/10.1016/j.jenvr ad.2006.11.010; Copyright (c) 2007 Elsevier Science B.V., Amsterdam, The Netherlands, All	Journal	radionuclides are unusual, in that they are isotopes of macro-elements which form the basis of animal tissues, feed and, in the case of "3H, water There are few published values describing the transfer of "3H and "1"4C from feed to animal derived food products under steady state conditions Approaches are described which enable the prediction of "1"4C and "3H transfer parameter values from readily available information on the stable H or C concentration of animal feeds, tissues and milk, water turnover rates, and feed intakes and digestibilities We recommend that the concentration ratio between feed and animal product activity concentrations be used as it is less variable than the transfer coefficient (ratio between radionuclide activity	English	United Kingdom	39054914

Transfer factors for assessing the dose	Ng, YC; Colsher, CS; Thompson,	1979	13 Jun 1979.; 28 p.; International	Report	Transfer factors to predict the environmental transport of radionuclides through		United States	10491059
from radionuclides in agricultural	SE; California Univ, Livermore		symposium on biological		terrestrial foodchains to man were derived from the literature for radionuclides			
products	(USA) Lawrence Livermore Lab		implications of radionuclides		associated with the nuclear fuel cycle We present updated transfer coefficients to			
			released from nuclear industries.	;	predict the concentration of a radionuclide in cow's milk and other animal products			
			Vienna, Austria.; 26 - 30 Mar		and concentration factors (CF) to predict the concentration in a food or feed crop from			
			1979.; UCRL82545(Rev.1).;		that in soil Where possible we note the variation of the transfer factor with physical			
			CONF-7903258.; Available from	n	and chemical form of the radionuclide and environmental factors, and characterize the			
			NTIS., PC A03/MF A01.;		distribution and uncertainty in the estimate The updated transfer factors are compared			
			,		with those listed in regulatory guides The new estimates lead to recommended			
					changes (both increases and decreases) in the listed transfer coefficients for milk and			
					meat and to the suggested practice of adopting multiple soil-to-plant CF's that vary			
					with the type of crop and soil in the place of a single generic CF to predict the			
					concentration of a radionuclide in a crop from that in soil The updated transfer factors			
					will be useful to assess the dose from radionuclides released from nuclear facilities and			
A general model for the transfer of	Simmonds, JR; Linsley, GS;	1979	Sep 1979.; 43 p.; NRPB-R89.;	Report	A general methodology for modelling the transfer of radionuclides in the food chains to		United Kingdom	11521917
radioactive materials in terrestrial food		13/3	зер 1979., 43 р., NKF В-К89.,	Керогс	man is described The models are dynamic in nature so that the long-term time		Officed Kingdom	11321917
chains	Protection Board, Harwell (UK)				dependence of processes in environmental materials can be represented, for example,			
Chains	Protection Board, Harwell (OK)							
					the build-up of activity concentrations in soils during continuous deposition from			
					atmosphere Modules for radionuclide migration are described in well-mixed			
					(cultivated) soil and undisturbed soil (pasture) The methods by which the transfer			
					coefficients used in plant and animal modules are derived are also given The foodstuffs			
					considered are those derived from green vegetables, grain, and root vegetables			
					together with meat and liver products from the cow and sheep and cow dairy products			
					The dynamic model permits the time dependence of food chain transfer processes to			
					be represented for different land contamination scenarios in particular, the model can			
					be adapted to represent behaviour following a single deposit Using the sensitivity of			
					results to the variation of transfer parameters the model can be used to determine the			
					parts of the food chain where improved data would be most effective in increasing the			
					reliability of radiological assessments a worked example is given (author)			
1979 annual report	Bundesanstalt fuer		[nd].; 60 p.; INIS-mf7067.; Pt. C	Miscellaneous	The task of the Federal Institute for Meat Research is to serve the population of the G	German	Germany	13674946
	Fleischforschung, Kulmbach		of the annual report 1979 of		FRG and to guarantee its supply with meat and meat products including slaughter fats			
	(Germany, FR)		Forschung im Geschaeftsbereich		and products of the poultry-farming including eggs in sufficient quantities, of high			
			des Bundesministers fuer		nutrition-physiological quality and free from residues hazardous to health In this			
			Ernaehrung, Landwirtschaft und		connection, the Federal Ministries are advised, the consumers protected and the			
			Forsten.;		competition within the home meat industry is supported at the same time, the institute			
					helps to expand the scientific level of knowledge To fulfil these tasks, following subjects			
					are being explored Factors of profitable production and use of meat and poultry			
					products fundamentals of keeping, improving, and judging the quality of meat animals,			
					meat, meat and poultry products including eggs the occurrence and the importance of			
					perish-causing, food poisoning or technologically necessary microorganisms the			
					occurrence and the effects of health-hazarding residues in animal food in slaughter			1
					animals, meat, meat and poultry products including eggs the technology of processing			1
					and preserving meat and the effects of additives and auxiliaries methods of analysing			
					additives and residues and the judgement of meat products and egg products with			
					regard to legal regulations concerning food stuff measuring the radioactive			
					contamination and methods of decontaminating slaughter animals, meat, meat			1
								1
					products and poultry products (orig/MG)			
								1
								1
		1	I	1			I	1

A maintained and displaying to the CO St. 1	Char DW. Dana CE III. Cl	1002	In a 4000 - 247 ODNII - 5700	D	Township I found who is an adult when the standard the transport of an income at 1000 to 1000	11. 2	4 - J C4 - 4	4.4722020
Agricultural production in the United	Shor, RW; Baes, CF III; Sharp,	1982	Jan 1982.; 347 p.; ORNL5768.;	Report	Terrestrial food-chain models that simulate the transport of environmentally released	Unite	ted States	14723929
States by county: a compilation of	RD; Oak Ridge National Lab, TN		Available from NTIS., PC A15/MF		radionuclides incorporate parameters describing agricultural production and practice			
information from the 1974 census of	(USA)		A01 as DE82006143.;		Often a single set of default parameters, such as that listed in USNRC Regulatory Guide			
agriculture for use in terrestrial food-					1109, is used in lieu of site-specific information However, the geographical diversity of			
chain transport and assessment model	S				agricultural practice in the United States suggests the limitations of a single set of			
					default parameters for assessment models This report documents default parameters			
					with a county-wide resolution based on analysis of the 1974 US Census of Agriculture			
					for use in terrestrial food chain models Data reported by county, together with state-			
					based information from the US Department of Agriculture, Economic and Statistics			
					Service, provided the basis for estimates of model input parameters This report also			
					describes these data bases, their limitations, and lists default parameters by county			
					Vegetable production is described for four categories: leafy vegetables vegetables and			
					fruits exposed to airborne material vegetables, fruits, and nuts protected from airborne			
					materials and grains Livestock feeds were analyzed in categories of hay, silage, pasture,			
					and grains Pasture consumption was estimated from cattle and sheep inventories, their			
					feed requirements, and reported quantities of harvested forage The results were	1		
					compared with assumed yields of the pasture areas reported In addition, non-			
					vegetable food production estimates including milk, beef, pork, lamb, poultry, eggs,			
					goat milk, and honey are described The agricultural parameters and land use			
					information - in all 47 items - are tabulated in four appendices for each of the 3067			
					counties of the US reported to the Census of Agriculture, excluding those in Hawaii and			
					Alaska			
					AldSkd			
2nd animal experiment to determine	Staatliche Lehr- und	1986	1986.; 32 p.; INIS-mf10728.;	Miscellaneous	High levels of the cesium isotopes 137 and 134, which were released by the Chernobyl German	Gern	many	18089458
radioactivity in milk and meat (winter	Versuchsanstalt fuer	1300	1560., 52 p., INIS IIII 10720.,	iviiscellaricous	reactor accident, are above all present in southern Germany in feeds for the winter of	Geni	illarry	10003430
feed)								
leed)					11096/97 There are two neccible nathways of how the todder was contaminated; by			
	Viehhaltung, Aulendorf				1986/87 There are two possible pathways of how the fodder was contaminated: by			
	(Germany, FR); Konstanz Univ				deposition of radioactive material on the exposed parts of the plant and by uptake of			
	(Germany, FR); Konstanz Univ (Germany, FR) Fakultaet fuer				deposition of radioactive material on the exposed parts of the plant and by uptake of radioactive material from the soil via the roots The following questions were to be			
	(Germany, FR); Konstanz Univ				deposition of radioactive material on the exposed parts of the plant and by uptake of radioactive material from the soil via the roots The following questions were to be elucidated by the experiment: 1 Appraisal of the probable radioactive contamination of			
	(Germany, FR); Konstanz Univ (Germany, FR) Fakultaet fuer				deposition of radioactive material on the exposed parts of the plant and by uptake of radioactive material from the soil via the roots The following questions were to be elucidated by the experiment: 1 Appraisal of the probable radioactive contamination of milk and meat, given the exclusive use of stored fodder from the first growth 2			
	(Germany, FR); Konstanz Univ (Germany, FR) Fakultaet fuer				deposition of radioactive material on the exposed parts of the plant and by uptake of radioactive material from the soil via the roots The following questions were to be elucidated by the experiment: 1 Appraisal of the probable radioactive contamination of milk and meat, given the exclusive use of stored fodder from the first growth 2 Determination of transfer factors and transfer rates for milk and meat 3 Determination			
	(Germany, FR); Konstanz Univ (Germany, FR) Fakultaet fuer				deposition of radioactive material on the exposed parts of the plant and by uptake of radioactive material from the soil via the roots The following questions were to be elucidated by the experiment: 1 Appraisal of the probable radioactive contamination of milk and meat, given the exclusive use of stored fodder from the first growth 2 Determination of transfer factors and transfer rates for milk and meat 3 Determination of the variation range for animal reactions to the use of contaminated fodder 4			
	(Germany, FR); Konstanz Univ (Germany, FR) Fakultaet fuer				deposition of radioactive material on the exposed parts of the plant and by uptake of radioactive material from the soil via the roots The following questions were to be elucidated by the experiment: 1 Appraisal of the probable radioactive contamination of milk and meat, given the exclusive use of stored fodder from the first growth 2 Determination of transfer factors and transfer rates for milk and meat 3 Determination of the variation range for animal reactions to the use of contaminated fodder 4 Drawing up of recommendations for feeding For this purpose, eight cows were divided			
	(Germany, FR); Konstanz Univ (Germany, FR) Fakultaet fuer				deposition of radioactive material on the exposed parts of the plant and by uptake of radioactive material from the soil via the roots The following questions were to be elucidated by the experiment: 1 Appraisal of the probable radioactive contamination of milk and meat, given the exclusive use of stored fodder from the first growth 2 Determination of transfer factors and transfer rates for milk and meat 3 Determination of the variation range for animal reactions to the use of contaminated fodder 4 Drawing up of recommendations for feeding For this purpose, eight cows were divided into two groups One group fed on hay from the first growth as a sole basic feed, the			
	(Germany, FR); Konstanz Univ (Germany, FR) Fakultaet fuer				deposition of radioactive material on the exposed parts of the plant and by uptake of radioactive material from the soil via the roots The following questions were to be elucidated by the experiment: 1 Appraisal of the probable radioactive contamination of milk and meat, given the exclusive use of stored fodder from the first growth 2 Determination of transfer factors and transfer rates for milk and meat 3 Determination of the variation range for animal reactions to the use of contaminated fodder 4 Drawing up of recommendations for feeding For this purpose, eight cows were divided into two groups One group fed on hay from the first growth as a sole basic feed, the other on silage fodder consisting of a mixture of hay and grass from the first growth			
	(Germany, FR); Konstanz Univ (Germany, FR) Fakultaet fuer				deposition of radioactive material on the exposed parts of the plant and by uptake of radioactive material from the soil via the roots The following questions were to be elucidated by the experiment: 1 Appraisal of the probable radioactive contamination of milk and meat, given the exclusive use of stored fodder from the first growth 2 Determination of transfer factors and transfer rates for milk and meat 3 Determination of the variation range for animal reactions to the use of contaminated fodder 4 Drawing up of recommendations for feeding For this purpose, eight cows were divided into two groups One group fed on hay from the first growth as a sole basic feed, the other on silage fodder consisting of a mixture of hay and grass from the first growth (mixing ratio 40 to 60) The animals were fed individually, the feed being offered twice a			
	(Germany, FR); Konstanz Univ (Germany, FR) Fakultaet fuer				deposition of radioactive material on the exposed parts of the plant and by uptake of radioactive material from the soil via the roots The following questions were to be elucidated by the experiment: 1 Appraisal of the probable radioactive contamination of milk and meat, given the exclusive use of stored fodder from the first growth 2 Determination of transfer factors and transfer rates for milk and meat 3 Determination of the variation range for animal reactions to the use of contaminated fodder 4 Drawing up of recommendations for feeding For this purpose, eight cows were divided into two groups One group fed on hay from the first growth as a sole basic feed, the other on silage fodder consisting of a mixture of hay and grass from the first growth (mixing ratio 40 to 60) The animals were fed individually, the feed being offered twice a day The following parameters were recorded: quantity of milk (daily in kilogrammes),			
	(Germany, FR); Konstanz Univ (Germany, FR) Fakultaet fuer				deposition of radioactive material on the exposed parts of the plant and by uptake of radioactive material from the soil via the roots The following questions were to be elucidated by the experiment: 1 Appraisal of the probable radioactive contamination of milk and meat, given the exclusive use of stored fodder from the first growth 2 Determination of transfer factors and transfer rates for milk and meat 3 Determination of the variation range for animal reactions to the use of contaminated fodder 4 Drawing up of recommendations for feeding For this purpose, eight cows were divided into two groups One group fed on hay from the first growth as a sole basic feed, the other on silage fodder consisting of a mixture of hay and grass from the first growth (mixing ratio 40 to 60) The animals were fed individually, the feed being offered twice a			
	(Germany, FR); Konstanz Univ (Germany, FR) Fakultaet fuer				deposition of radioactive material on the exposed parts of the plant and by uptake of radioactive material from the soil via the roots The following questions were to be elucidated by the experiment: 1 Appraisal of the probable radioactive contamination of milk and meat, given the exclusive use of stored fodder from the first growth 2 Determination of transfer factors and transfer rates for milk and meat 3 Determination of the variation range for animal reactions to the use of contaminated fodder 4 Drawing up of recommendations for feeding For this purpose, eight cows were divided into two groups One group fed on hay from the first growth as a sole basic feed, the other on silage fodder consisting of a mixture of hay and grass from the first growth (mixing ratio 40 to 60) The animals were fed individually, the feed being offered twice a day The following parameters were recorded: quantity of milk (daily in kilogrammes),			
	(Germany, FR); Konstanz Univ (Germany, FR) Fakultaet fuer				deposition of radioactive material on the exposed parts of the plant and by uptake of radioactive material from the soil via the roots The following questions were to be elucidated by the experiment: 1 Appraisal of the probable radioactive contamination of milk and meat, given the exclusive use of stored fodder from the first growth 2 Determination of transfer factors and transfer rates for milk and meat 3 Determination of the variation range for animal reactions to the use of contaminated fodder 4 Drawing up of recommendations for feeding For this purpose, eight cows were divided into two groups One group fed on hay from the first growth as a sole basic feed, the other on silage fodder consisting of a mixture of hay and grass from the first growth (mixing ratio 40 to 60) The animals were fed individually, the feed being offered twice a day The following parameters were recorded: quantity of milk (daily in kilogrammes), quantity of cesium in milk (every second day, Bq/kilogramme), silage grass fodder (10			
	(Germany, FR); Konstanz Univ (Germany, FR) Fakultaet fuer				deposition of radioactive material on the exposed parts of the plant and by uptake of radioactive material from the soil via the roots The following questions were to be elucidated by the experiment: 1 Appraisal of the probable radioactive contamination of milk and meat, given the exclusive use of stored fodder from the first growth 2 Determination of transfer factors and transfer rates for milk and meat 3 Determination of the variation range for animal reactions to the use of contaminated fodder 4 Drawing up of recommendations for feeding For this purpose, eight cows were divided into two groups One group fed on hay from the first growth as a sole basic feed, the other on silage fodder consisting of a mixture of hay and grass from the first growth (mixing ratio 40 to 60) The animals were fed individually, the feed being offered twice a day The following parameters were recorded: quantity of milk (daily in kilogrammes), quantity of cesium in milk (every second day, Bq/kilogramme), silage grass fodder (10 samples, Bq/kilogramme), hay (10 samples and one control each week during the			
	(Germany, FR); Konstanz Univ (Germany, FR) Fakultaet fuer				deposition of radioactive material on the exposed parts of the plant and by uptake of radioactive material from the soil via the roots The following questions were to be elucidated by the experiment: 1 Appraisal of the probable radioactive contamination of milk and meat, given the exclusive use of stored fodder from the first growth 2 Determination of transfer factors and transfer rates for milk and meat 3 Determination of the variation range for animal reactions to the use of contaminated fodder 4 Drawing up of recommendations for feeding For this purpose, eight cows were divided into two groups One group fed on hay from the first growth as a sole basic feed, the other on silage fodder consisting of a mixture of hay and grass from the first growth (mixing ratio 40 to 60) The animals were fed individually, the feed being offered twice a day The following parameters were recorded: quantity of milk (daily in kilogrammes), quantity of cesium in milk (every second day, Bq/kilogramme), silage grass fodder (10 samples, Bq/kilogramme), hay (10 samples and one control each week during the experiment, Bq/kilogramme), meat (from one cow out of each group, Bq/kilogramme)			
	(Germany, FR); Konstanz Univ (Germany, FR) Fakultaet fuer				deposition of radioactive material on the exposed parts of the plant and by uptake of radioactive material from the soil via the roots The following questions were to be elucidated by the experiment: 1 Appraisal of the probable radioactive contamination of milk and meat, given the exclusive use of stored fodder from the first growth 2 Determination of transfer factors and transfer rates for milk and meat 3 Determination of the variation range for animal reactions to the use of contaminated fodder 4 Drawing up of recommendations for feeding For this purpose, eight cows were divided into two groups One group fed on hay from the first growth as a sole basic feed, the other on silage fodder consisting of a mixture of hay and grass from the first growth (mixing ratio 40 to 60) The animals were fed individually, the feed being offered twice a day The following parameters were recorded: quantity of milk (daily in kilogrammes), quantity of cesium in milk (every second day, Bq/kilogramme), silage grass fodder (10 samples, Bq/kilogramme), hay (10 samples and one control each week during the experiment, Bq/kilogramme), meat (from one cow out of each group, Bq/kilogramme)			

Mathematical simulation of the	Zhuchenko, YuM; Ministehrstva	1992	Nov 1998; 48 p.; INIS-BY010; 24	Miscellaneous	The purpose of work is the creation of universal statistical model for the forecast of an Russian	Belar	rus	30006826
radionuclides flows from both	pa nadzvychajnykh situatsyyakh	1330	refs., 9 tabs., 14 figs.;	Wilscellaricous	opportunity of rehabilitation of the contaminated territories on the basis of an	DCIai		30000820
			1615., 9 tabs., 14 figs.,		,			
agriculture and natural ecosystems for	Rehspubliki Belarus', Gomel'				estimation of radionuclides flows from agricultural and natural ecosystems, their			
the purpose of radiation rehabilitation	(Belarus) Navukova-dasledchy				influence on formation of individual and collective population dozes of irradiation and			
of the contaminated territories	inst radyyalogii (Inst of				redistribution on territories of regions or the republic The following tasks were			
	Radiology); Vserossijskij				decided: formation of the interconnected and reliable databases about dynamics of			
	nauchno-issledovatel'skij inst				radiation parameters describing all elements of the trophic circuit - soil, plant, animal,			
	sel'skokhozyajstvennoj				person research and analysis of laws and connections between elements of the chain			
	radiologii i agroehkologii,				based on statistical processing of the available information the analysis and			
	Obninsk (Russian Federation)				modification of calculated models for estimation and forecast of population dose			
					loading due to both internal and external irradiation in the point of view of reception of			
					adequate results at a local principle of rehabilitation of the contaminated territories			
					creation of calculated statistical model of the radionuclide flows from agricultural and			
					natural open ecosystems a comparative estimation of the contributions of various			
					types of ecosystems in formation of dose loading on the population living in			
					rehabilitated region and outside of it approbation of the redistribution models of			
					radionuclides flows inside and outside of the region for estimation of possible			
					rehabilitation measures The original methods of an estimation of a radiation situation			
					9			
					on the basis of calculated statistical model of the radionuclides flows from agrarian and			
					natural ecosystems and its advanced modifications are offered On the basis of model			
					calculations the determining role of milk in formation of internal irradiation doze of the			
					inhabitants of the contaminated areas is shown The theoretical approaches for			
					radiation rehabilitation of the contaminated territories on a basis of territorial - local			
					principles are developed The calculation of distribution of radionuclides flows and dose			
					characteristics in frames of both the Mogilev Region and Republic of Belarus are			
					executed The importance of various regions in radiation balance of Belarus is			
					appreciated The practical estimation of a radiation situation and forecast of its easing			
Agricultural industrial production under	Bogdevich, IM; Inst	1998	Konoplya, E.F.; Natsyyanal'naya	Miscellaneous	More than 18 million hectares of agricultural fields that makes up 208% of the available Russian	Belar	rus	30006831
the conditions of radioactive	pochvaznawstva i agrakhimii,		akadehmiya navuk Belarusi,		area was exposed to radioactive contamination with cesium 137 density over 37			
contamination Chapter 4	Minsk (Belarus); Ageets, VYu;		Minsk (Belarus). Inst.		kBq/sqm, including 265 thousand sq km with cesium 137 contamination density over			
Contamination Chapter :	Ministehrstva pa		radyyabiyalogii (Inst. of		1480 kBg/sgm, strontium 90 - more than 111 kBg/sgm and plutonium - over 37			
	nadzvychajnykh situatsyyakh		Radiobiology); Rolevich, I.V.;		kBg/sqm which were excluded from economic turn-over The behaviour of			
	Rehspubliki Belarus', Gomel'		Ministehrstva pa nadzvychajnykh		radionuclides in soil and their transfer to the plant-growing products are described			
	(Belarus) Navukova-dasledchy		situatsyyakh Rehspubliki Belarus'		Methods restricting the radionuclides intake into plants such as selection of cultures,			
	'		1 ''		1			
	inst radyyalogiiv; Antsypov, GV;		Minsk (Belarus) (Ministry for		soil cultivation, liming of acid soils, fertilizers, protection of plants, water regime			
	Ministehrstva pa		Emergencies); Ministehrstva pa		regulation and other are given The problems of animal breeding are described For			
	nadzvychajnykh situatsyyakh		nadzvychajnykh situatsyyakh		alleviation of the practical use of recommendations there have been calculated the			
	Rehspubliki Belarus', Minsk		Rehspubliki Belarus', Minsk		norms of radionuclides permissible content in concrete forage for cattle on the basis of			
	(Belarus)		(Belarus); Natsyyanal'naya		typical rations and the certain scheme of young stock breeding and cattle fattening has			
			akadehmiya navuk Belarusi,		been proposed Forecasting of agricultural products contamination and the efficiency of			
			Minsk (Belarus); The Chernobyl		protective measures are given			
			accident: consequences and their	·				
			overcoming; 102 p.; Dec 1998; p.					
			58-71; INIS-BY012; 11 figs., 4					
			tabs.;					
i	1		1	1				