

Reference List of all relevant peer-reviewed publications from the open literature that were submitted for the Renewal of Approval (AIR2) of Glyphosate in 2012 and during EU peer-review

Fate and Behaviour in the Environment

The following table lists the relevant publications from the open literature that were selected for inclusion in the renewal dossier as per Article 8.5 of Regulation (EC) 1107/2009.

The publications were legally obtained by Monsanto from the public literature respecting in full all copyrights and are included in Document K.

The Category is defined as per ‘Methodology paper’ (Carr K.H and Bleeke M.S., 2012) and is listed in the Category column. (Some publications are included in more than one dossier section and may have been assigned a different category for each section, in which case both are listed by section number.)

The Evaluation/Translation column includes the following information:

- ‘K’ indicates that a Tier II-type summary and a rating according to Klimisch *et al.*, 1997 is included in Document M for the publication
- ‘T’ indicates that an English translation of the publication is provided

Section 5 - Fate and Behaviour in the Environment

Annex point/ reference number	Author(s)	Year	Title Citation	Category	Evaluation / Translation
IIA 7.13	Accinelli C, Koskinen WC, Sadowsky MJ	2006	Influence of Cry1Ac toxin on mineralization and bioavailability of glyphosate in soil. J Agric Food Chem 54 (1):164-9. DOI: 10.1021/jf052252v.	1	
IIA 7.13	Accinelli C, Koskinen WC, Seebinger JD, Vicari A, Sadowsky MJ	2005	Effects of incorporated corn residues on glyphosate mineralization and sorption in soil. Journal of Agricultural and Food Chemistry 53 (10):4110-4117. Doi 10.1021/Jf050168r.	1	

Annex point/ reference number	Author(s)	Year	Title Citation	Category	Evaluation / Translation
IIA 7.13	Accinelli C, Screpanti C, Vicari A, Catizone P	2004	Influence of insecticidal toxins from <i>Bacillus thuringiensis</i> subsp <i>kurstaki</i> on the degradation of glyphosate and glufosinate-ammonium in soil samples. <i>Agriculture Ecosystems & Environment</i> 103 (3):497-507. DOI 10.1016/j.agee.2003.11.002.	1	
IIA 7.13	Adams GW, Smith T, Miller JD	2007	The absence of glyphosate residues in wet soil and the adjacent watercourse after a forestry application in new Brunswick, <i>Northern Journal of Applied Forestry</i> 24 (3): 230-232	1	
IIA 7.13	Albers CN, Banta GT, Hansen PE, Jacobsen OS	2009	The influence of organic matter on sorption and fate of glyphosate in soil – Comparing different soils and humic substances. <i>Environmental Pollution</i> 157 (10): 2865-2870. DOI: 10.1016/j.envpol.2009.04.004.	1	
IIA 7.13	Alexa E, Bragea M, Sumalan R, Lazureanu A, Negrea M, Iancu S	2009	Dynamic of glyphosate mineralization in different soil types. <i>Romanian Agricultural Research</i> 26:57-60	1	
IIA 7.13	Alexa E, Lazureanu A, Alda S, Negrea M, Iordanescu O	2008	Researches regarding extractable glyphosate residues from different soils. <i>Commun Agric Appl Biol Sci</i> 73 (4):861-9	1	
IIA 7.13	Alexa E, Micu R, Negrea M, Sumalan R, Iordanescu O	2010	Research on the weed control degree and glyphosate soil biodegradation in apple plantations (Pioneer variety). <i>Analele Universitatii din Oradea, Fascicula Biologie</i> 17 (1):5-8	1	
IIA 7.13	Alexa E, Sumalan R, Negrea M	2008	Researches regarding the microorganisms influence on glyphosate biodegradation. <i>Journal of Agroalimentary Processes and Technologies</i> 14 (2):498-502	1	
IIA 7.13	Alletto L, Coquet Y, Benoit P, Heddadj D, Barriuso E	2010	Tillage management effects on pesticide fate in soils. A review. <i>Agron. Sustain. Dev.</i> 30:367-400. DOI: 10.1051/agro/2009018.	1	
IIA 7.13	Al-Rajab AJ, Amellal S, Schiavon M	2008	Sorption and leaching of C-14-glyphosate in agricultural soils. <i>Agronomy for Sustainable Development</i> 28 (3):419-428. Doi 10.1051/Agro:2008014.	1	

Annex point/ reference number	Author(s)	Year	Title Citation	Category	Evaluation / Translation
IIA 7.13	Al-Rajab AJ, Schiavon M	2010	Degradation of ¹⁴ C-glyphosate and aminomethylphosphonic acid (AMPA) in three agricultural soils. J Environ Sci (China) 22 (9):1374-80. DOI: 10.1016/S1001-0742(09)60264-3.	1	
IIA 7.13	Al-Salamah IS	2004	Simulating the fate and transport of pesticide in unsaturated soil: a case study with glyphosate-isopropylammonium. In Geo-Environment: Monitoring, Simulation & Remediation of the Geological Environment. . edited by J. F. Martin-Deque, Brebbia, C. A., Godfrey, A. E., Diaz de Teran, J. R. Southampton UK: WIT Press, pp 275-290.	1	
IIA 7.13	Andrade GJMd, Rosolem CA	2011	Uptake of Manganese in RR Soybean under Glifosate Application. Revista Brasileira de Ciência do Solo 35 (3):961-968. doi:10.1590/S0100-06832011000300030.	1	
IIA 7.13 Also listed under IIA 8.16	Andréa MM, Papini S, Peres TB, Bazarin S, Savoy VLT, Matallo MB	2004	Glyphosate influence on the soil bioactivity and action of earthworms on its soil dissipation. Planta Daninha 22:95-100. DOI: 10.1590/S0100-83582004000100012.	1	
IIA 7.13	Andréa MMd, Peres TB, Luchini LC, Bazarin S, Papini S, Matallo MB, Savoy VLT	2003	Influence of repeated applications of glyphosate on its persistence and soil bioactivity. Pesquisa Agropecuaria Brasileira 38:1329-1335. DOI: 10.1590/S0100-204X2003001100012.	1	
IIA 7.13	Arantes SAdCM, Lavoretti A, Tomasielo VL	2011	Effect of liming on the mineralization of (¹⁴)C-glyphosate in soils. Ciencia e Agrotecnologia 35 (2):234-241	1	
IIA 7.13	Aronsson H, Stenberg M, Ulén B	2011	Leaching of N, P and glyphosate from two soils after herbicide treatment and incorporation of a ryegrass catch crop. Soil Use and Management 27 (1):54-68. doi: 10.1111/j.1475-2743.2010.00311.x.	2	
IIA 7.13	Assalin MR, De Moraes SG, Queiroz SC, Ferracini VL, Duran N	2010	Studies on degradation of glyphosate by several oxidative chemical processes: ozonation, photolysis and heterogeneous photocatalysis. J Environ Sci Health B 45 (1):89-94. DOI: 10.1080/03601230903404598.	1	

Annex point/ reference number	Author(s)	Year	Title Citation	Catego ry	Eval uatio n / Tran slatio n
IIA 7.13	Augustin B	2003	Urban areas - source of pesticide-contamination of surface water? Paper read at Second International Symposium on plant health in urban horticulture, 27-29 August, 2003, at Berlin, Germany. 166-169.	1	
IIA 7.13	Augustin B, Seibel H	2002	Herbicide treatment of urban areas - a possible source of surface water contamination. Gesunde Pflanzen 54 (7):235-240	2	
IIA 7.13	Autio S, Siimes K, Laitinen P, Ramo S, Oinonen S, Eronen L	2004	Adsorption of sugar beet herbicides to Finnish soils. Chemosphere 55 (2):215-226. DOI 10.1016/j.chemosphere.2003.10.015.	1	
IIA 7.13	Bailey WA, Poston DH, Wilson HP, Hines TE	2002	Glyphosate interactions with manganese. Weed Technology 16 (4):792-799	1	
IIA 7.13	Balci B, Oturan MA, Oturan N, Sirés I	2009	Decontamination of Aqueous Glyphosate, (Aminomethyl)phosphonic Acid, and Glufosinate Solutions by Electro-Fenton-like Process with Mn ²⁺ as the Catalyst. Journal of Agricultural and Food Chemistry 57 (11):4888-4894. DOI: 10.1021/jf900876x.	1	
IIA 7.13	Barja BC, dos Santos Afonso M	2005	Aminomethylphosphonic Acid and Glyphosate Adsorption onto Goethite: A Comparative Study. Environmental Science & Technology 39 (2):585-592. DOI: 10.1021/es035055q.	1	
IIA 7.13	Barrett KA, McBride MB	2005	Oxidative degradation of glyphosate and aminomethylphosphonate by manganese oxide. Environmental Science & Technology 39 (23):9223-9228. Doi 10.1021/Es051342d.	1	
IIA 7.13	Barrett KA, McBride MB	2007	Phosphate and glyphosate mobility in soil columns amended with roundup. Soil Science 172 (1):17-26. DOI 10.1097/01.ss.0000240549.44551.3d.	1	
IIA 7.13	Barrett KA, McBride MB	2006	Trace element mobilization in soils by glyphosate. Soil Science Society of America Journal 70 (6):1882-1888. DOI 10.2136/sssaj2005.0415.	2	
IIA 7.13	Basso CJ, Santi AL, Lamego FP, Giroto E	2011	Foliar application of manganese in transgenic soybean tolerant to glyphosate. Ciencia Rural 41 (10):1726-1731. doi: 10.1590/S0103-84782011001000008.	1	

Annex point/ reference number	Author(s)	Year	Title Citation	Category	Evaluation / Translation
IIA 7.13	Battaglin W, Rice K, Focazio M, Salmons S, Barry R	2009	The occurrence of glyphosate, atrazine, and other pesticides in vernal pools and adjacent streams in Washington, DC, Maryland, Iowa, and Wyoming, 2005-2006. Environmental Monitoring and Assessment 155 (1):281-307	2	
IIA 7.13	Battaglin WA, Kolpin DW, Scribner EA, Kuivila KM, Sandstrom MW	2005	Glyphosate, other herbicides, and transformation products in Midwestern streams, 2002. Journal of the American Water Resources Association 41 (2):323-332	1	
IIA 7.13	Baun A, Ledin A, Reitzel LA, Bjerg PL, Christensen TH	2004	Xenobiotic organic compounds in leachates from ten Danish MSW landfills - chemical analysis and toxicity tests. Water Research 38 (18):3845-3858. DOI: 10.1016/j.watres.2004.07.006	1	
IIA 7.13	Bazot S, Lebeau T	2008	Simultaneous mineralization of glyphosate and diuron by a consortium of three bacteria as free- and/or immobilized-cells formulations. Appl Microbiol Biotechnol 77 (6):1351-8. DOI: 10.1007/s00253-007-1259-3.	1	
IIA 7.13	Bellaloui N, Abbas HK, Gillen AM, Abel CA	2009	Effect of glyphosate-boron application on seed composition and nitrogen metabolism in glyphosate-resistant soybean. J Agric Food Chem 57 (19):9050-6. DOI: 10.1021/jf901801z.	2	K
IIA 7.13	Bellaloui N, Reddy KN, Zablutowicz RM, Abbas HK, Abel CA	2009	Effects of Glyphosate Application on Seed Iron and Root Ferric (III) Reductase in Soybean Cultivars. Journal of Agricultural and Food Chemistry 57 (20):9569-9574. Doi 10.1021/Jf902175y.	2	K
IIA 7.13	Bellaloui N, Reddy KN, Zablutowicz RM, Mengistu A	2006	Simulated glyphosate drift influences nitrate assimilation and nitrogen fixation in non-glyphosate-resistant soybean. J Agric Food Chem 54 (9):3357-64. DOI: 10.1021/jf053198l.	2	K
IIA 7.13	Bellaloui N, Zablutowicz RM, Reddy KN, Abel CA	2008	Nitrogen metabolism and seed composition as influenced by glyphosate application in glyphosate-resistant soybean. J Agric Food Chem 56 (8):2765-72. DOI: 10.1021/jf703615m.	2	K

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IIA 7.13	Benetoli LOB, de Santana H, Carneiro CEA, Zaia DAM, Ferreira AS, Paesano Jr. A, Zaia CTBV	2010	Adsorption of glyphosate in a forest soil: a study using Mössbauer and FT-IR spectroscopy. Química Nova 33 (4):855-859. doi: 10.1590/S0100-40422010000400017.	1	
IIA 7.13	Bergström L, Börjesson E, Stenström J	2011	Laboratory and Lysimeter Studies of Glyphosate and Aminomethylphosphonic Acid in a Sand and a Clay Soil. J. Environ. Qual. 40 (1):98-108. doi: 10.2134/jeq2010.0179.	2	K
IIA 7.13	Bernards ML, Thelen KD, Penner D, Muthukumaran RB, McCracken JL	2005	Glyphosate interaction with manganese in tank mixtures and its effect on glyphosate absorption and translocation. Weed Science 53 (6):787-794	2	K
IIA 7.13	Birch H, Mikkelsen PS, Jensen JK, Lutzhof HCH	2011	Micropollutants in stormwater runoff and combined sewer overflow in the Copenhagen area, Denmark. Water Science and Technology 64 (2):485-493. DOI: 10.2166/wst.2011.687.	2	
IIA 7.13	Bonfleur E, Lavorenti A, Tomasielo VL	2011	Mineralization and degradation of glyphosate and atrazine applied in combination in a Brazilian Oxisol. Journal of Environmental Science and Health Part B-Pesticides Food Contaminants and Agricultural Wastes 46 (1):69-75. doi: 10.1080/03601234.2011.534384.	1	
IIA 7.13	Borggaard OK	2011	Does Phosphate Affect Soil Sorption and Degradation of Glyphosate? – A Review. Trends in Soil & Plant Sciences Journal 2 (1):16-27	1	
IIA 7.13	Borggaard OK, Gimsing AL	2008	Fate of glyphosate in soil and the possibility of leaching to ground and surface waters: a review. Pest Manag Sci 64 (4):441-56. DOI: 10.1002/ps.1512.	1	
IIA 7.13	Bott S, Lebender U, Yoon DJ, Tesfamariam T, Romheld V, Neumann G	2009	Evidence for glyphosate damage of winter wheat depending on waiting-times after pre-crop glyphosate application and density of desiccated weed plants under field and experimental conditions. Paper read at The Proceedings of the International Plant Nutrition Colloquium XVI., at UC Davis.	3	K

Annex point/ reference number	Author(s)	Year	Title Citation	Catego ry	Eval uatio n / Tran slatio n
IIA 7.13	Bott S, Tesfamariam T, Candan H, Cakmak I, Roemheld V, Neumann G	2008	Glyphosate-induced impairment of plant growth and micronutrient status in glyphosate-resistant soybean (<i>Glycine max</i> L.). <i>Plant and Soil</i> 312 (1-2):185-194. DOI 10.1007/s11104-008-9760-8.	3	K
IIA 7.13	Bott S, Tesfamariam T, Kania A, Eman B, Aslan N, Roemheld V, Neumann G	2011	Phytotoxicity of glyphosate soil residues re-mobilised by phosphate fertilisation. <i>Plant and Soil</i> 342 (1-2):249-263. doi: 10.1007/s11104-010-0689-3.	3	K
IIA 7.13	Botta F, Lavison G, Couturier G, Alliot F, Moreau-Guigon E, Fauchon N, Guery B, Chevreuil M, Blanchoud H	2009	Transfer of glyphosate and its degradate AMPA to surface waters through urban sewerage systems. <i>Chemosphere</i> 77 (1):133-9. DOI: 10.1016/j.chemosphere.2009.05.008.	1	
IIA 7.13	Boucherie C, Lecarpentier C, Fauchon N, Diafer M, Heim V	2010	Ozone and "GAC filtration" synergy for removal of emerging micropollutants in a drinking water treatment plant? <i>Water Science and Technology: Water Supply</i> 10 (5): 860-868. doi: 10.2166/ws.2010.837.	1	
IIA 7.13	Bozkaya B, Daines C, Brunel A, Schrotter JC, Breant P	2009	Treatment of nanofiltration membrane concentrates: Organic micropollutant and nom removal. <i>Desalination and Water Treatment</i> 9:36-42	1	
IIA 7.13	Bressy A, Gromaire MC, Lorgeoux C, Saad M, Leroy F, Chebbo G	2012	Towards the determination of an optimal scale for stormwater quality management: Micropollutants in a small residential catchment. <i>Water Research</i> . doi: 10.1016/j.watres.2011.12.017.	1	
IIA 7.13	Brosillon S, Wolbert D, Lemasle M, Roche P, Mehrsheikh A	2006	Chlorination kinetics of glyphosate and its by-products: modeling approach. <i>Water Res</i> 40 (11):2113-24. DOI: 10.1016/j.watres.2006.03.028.	1	
IIA 7.13	Brown CD, van Beinum W	2009	Pesticide transport via sub-surface drains in Europe. <i>Environmental Pollution</i> 157 (12):3314-3324. DOI 10.1016/j.envpol.2009.06.029.	1	
IIA 7.13	Byer JD, Struger J, Klawunn P, Todd A, Sverko E	2008	Low cost monitoring of glyphosate in surface waters using the ELISA method: an evaluation. <i>Environ Sci Technol</i> 42 (16):6052-7	1	

Annex point/ reference number	Author(s)	Year	Title Citation	Category	Eval uatio n / Tran slatio n
IIA 7.13	Caceres-Jensen L, Gan J, Baez M, Fuentes R, Escudey M	2009	Adsorption of glyphosate on variable-charge, volcanic ash-derived soils. J Environ Qual 38 (4):1449-57. DOI: 10.2134/jeq2008.0146.	1	
IIA 7.13	Cakmak I, Yazici A, Tutus Y, Ozturk L	2009	Glyphosate reduced seed and leaf concentrations of calcium, manganese, magnesium, and iron in non-glyphosate resistant soybean. European Journal of Agronomy 31 (3):114-119	3	K
IIA 7.13	Candela L, Alvarez-Benedi J, de Melo MTC, Rao PSC	2007	Laboratory studies on glyphosate transport in soils of the Maresme area near Barcelona, Spain: Transport model parameter estimation. Geoderma 140 (1-2):8-16. DOI 10.1016/j.geoderma.2007.02.013.	1	
IIA 7.13	Candela L, Caballero J, Ronen D	2010	Glyphosate transport through weathered granite soils under irrigated and non-irrigated conditions - Barcelona, Spain. Sci Total Environ 408 (12):2509-16. DOI: 10.1016/j.scitotenv.2010.03.006.	2	
IIA 7.13 Also listed under IIA 8.16	Castro JV, Peralba MCR, Ayub MAZ	2007	Biodegradation of the herbicide glyphosate by filamentous fungi in platform shaker and batch bioreactor. Journal of Environmental Science and Health Part B-Pesticides Food Contaminants and Agricultural Wastes 42 (8):883-886. Doi 10.1080/03601230701623290.	1	
IIA 7.13 Also listed under IIA 8.16	Cerdeira AL, Duke SO	2006	The current status and environmental impacts of glyphosate-resistant crops: a review. J Environ Qual 35 (5):1633-58. DOI: 10.2134/jeq2005.0378.	1 (7.13) 2 (8.16)	
IIA 7.13	Cerdeira AL, Duke SO	2010	Effects of glyphosate-resistant crop cultivation on soil and water quality. GM Crops 1 (1):1-9	1	
IIA 7.13	Cerdeira AL, Gazziero DLP, Duke SO, Matallo MB, Spadotto CA	2007	Review of potential environmental impacts of transgenic glyphosate-resistant soybean in Brazil. Journal of Environmental Science and Health Part B-Pesticides Food Contaminants and Agricultural Wastes 42 (5):539-549. Doi 10.1080/03601230701391542.	1	

Annex point/ reference number	Author(s)	Year	Title Citation	Catego ry	Eval uatio n / Tran slatio n
IIA 7.13	Chang FC, Simcik MF, Capel PD	2011	Occurrence and fate of the herbicide glyphosate and its degradate aminomethylphosphonic acid in the atmosphere. Environmental Toxicology and Chemistry 30 (3):548-555. doi: 10.1002/etc.431.	2	
IIA 7.13	Colombo SM, Masini JC	2011	Developing a fluorimetric sequential injection methodology to study adsorption/desorption of glyphosate on soil and sediment samples. Microchemical Journal 98 (2):260-266. doi: 10.1016/j.microc.2011.02.009.	1	
IIA 7.13	Comoretto L, Arfib B, Chiron S	2007	Pesticides in the Rhone river delta (France): Basic data for a field-based exposure assessment. Science of the Total Environment 380 (1-3):124-132. DOI 10.1016/j.scitotenv.2006.11.046.	1	
IIA 7.13	Cornish PS, Burgin S	2005	Residual effects of glyphosate herbicide in ecological restoration. Restoration Ecology 13 (4):695-702	1	
IIA 7.13	Correia NM, Durigan JC	2009	Glyphosate and Foliar Fertilization Using Manganese in Transgenic Soybean Crop. Planta Daninha 27 (4):721-727. doi: 10.1590/S0100-83582009000400010.	1	
IIA 7.13	Coupe RH, Kalkhoff SJ, Capel PD, Gregoire C	2012	Fate and transport of glyphosate and aminomethylphosphonic acid in surface waters of agricultural basins. Pest management science 68 (1):16-30. doi: 10.1002/ps.2212.	1	
IIA 7.13	Coutinho GFB, Mazo LH	2005	Metallic complexes with glyphosate: a review. Quimica Nova 28 (6):1038-1045	1	
IIA 7.13	Crowe AS, Leclerc N, Struger J, Brown S	2011	Application of a glyphosate-based herbicide to Phragmites australis: Impact on groundwater and near-shore lake water at a beach on Georgian Bay. Journal of Great Lakes Research 37 (4):616-624. DOI: 10.1016/j.jglr.2011.08.001.	1	
IIA 7.13	da Cruz LH, de Santana H, Zaia CTBV, Zaia DAM	2007	Adsorption of glyphosate on clays and soils from Parana state: Effect of pH and phosphate competitive adsorption of phosphate. Brazilian Archives of Biology and Technology 50 (3):385-394	1	
IIA 7.13	da Silva MD, Peralba MdCR, Mattos ML	2003	Determination of glyphosate and aminomethylphosphonic acid in superficial waters of Arroioi Passo do Pilao. Pesticidas: R. Ecotoxicol e Meio Ambiente, Curitiba 13:19-28	2	

Annex point/ reference number	Author(s)	Year	Title Citation	Category	Evaluation / Translation
IIA 7.13	Damonte M, Torres Sánchez RM, dos Santos Afonso M	2007	Some aspects of the glyphosate adsorption on montmorillonite and its calcined form. Applied Clay Science 36 (1-3):86-94. doi: 10.1016/j.clay.2006.04.015.	1	
IIA 7.13	Davis AM, Thorburn PJ, Lewis SE, Bainbridge ZT, Attard SJ, Milla R, Brodie JE	2012	Environmental impacts of irrigated sugarcane production: Herbicide run-off dynamics from farms and associated drainage systems. Agriculture, Ecosystems & Environment. doi: 10.1016/j.agee.2011.06.019.	1	
IIA 7.13	De Araujo ASF, Monteiro RTR, Abakerli RB, De Souza LS	2003	Biodegradation of glyphosate in two Brazilian soils. Pesticidas: R. Ecotoxicol. E. Meio Ambiente 13:157-164	1	
IIA 7.13	de Armas ED, Monteiro RTR, Antunes PM, dos Santos MAPE, de Camargo PB, Abakerli RB	2007	Spatial-temporal diagnostic of herbicide occurrence in surface waters and sediments of Corumbatai River and main affluents. Química Nova 30 (5):1119-1127	1	
IIA 7.13	de Jonge H, de Jonge LW, Jacobsen OH, Yamaguchi T, Moldrup P	2001	Glyphosate sorption in soils of different pH and phosphorus content. Soil Science 166 (4):230-238	2	K
IIA 7.13	de Paz JM, Rubio JE	2006	Application of a GIS-AF/RF model to assess the risk of herbicide leaching in a citrus-growing area of the Valencia Community, Spain. Sci Total Environ 371 (1-3): 44-54. DOI: 10.1016/j.scitotenv.2006.07.018.	1	
IIA 7.13	de Roffignac L, Cattan P, Mailloux J, Herzog D, Le Bellec F	2008	Efficiency of a bagasse substrate in a biological bed system for the degradation of glyphosate, malathion and lambda-cyhalothrin under tropical climate conditions. Pest Management Science 64 (12):1303-1313. DOI: 10.1002/ps.1633.	1	
IIA 7.13	de Santana H, Toni LRM, Benetoli LOdB, Zaia CTBV, Rosa Jr M, Zaia DAM	2006	Effect in glyphosate adsorption on clays and soils heated and characterization by FT-IR spectroscopy. Geoderma 136 (3-4):738-750	1	
IIA 7.13	Dideriksen K, Stipp SLS	2003	The adsorption of glyphosate and phosphate to goethite: A molecular-scale atomic force microscopy study. Geochimica Et Cosmochimica Acta 67 (18):3313-3327. Doi 10.1016/S0016-7037(02)01369-8.	1	

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IIA 7.13	Dion HM, Harsh JB, Hill HH	2001	Competitive sorption between glyphosate and inorganic phosphate on clay minerals and low organic matter soils. Journal of Radioanalytical and Nuclear Chemistry 249 (2):385-390	2	K
IIA 7.13	Doublet J, Mamy L, Barriuso E	2009	Delayed degradation in soil of foliar herbicides glyphosate and sulcotriione previously absorbed by plants: consequences on herbicide fate and risk assessment. Chemosphere 77 (4):582-9. DOI:10.1016/j.chemosphere.2009.06.044.	2	
IIA 7.13	Dousset S, Chauvin C, Durllet P, Thevenot M	2004	Transfer of hexazinone and glyphosate through undisturbed soil columns in soils under Christmas tree cultivation. Chemosphere 57 (4):265-272. DOI 10.1016/j.chemosphere.2004.06.007.	1	
IIA 7.13	Dousset S, Jacobson AR, Dessogne JB, Guichard N, Baveye PC, Andreux F	2007	Facilitated transport of diuron and glyphosate in high copper vineyard soils. Environ Sci Technol 41 (23):8056-61	2	K
IIA 7.13 Also listed under IIA 8.16	Druart C, Millet M, Scheifler R, Delhomme O, de Vaufléury A	2011	Glyphosate and glufosinate-based herbicides: fate in soil, transfer to, and effects on land snails. Journal of Soils and Sediments 11 (8):1373-1384. doi: 10.1007/s11368-011-0409-5.	1	
IIA 7.13 Also listed under IIA 8.16	Duke SO, Powles SB	2008	Glyphosate: a once-in-a-century herbicide. Pest Manag Sci 64 (4):319-25. DOI: 10.1002/ps.1518.	1	
IIA 7.13	Eberbach PL, Douglas LA	1983	Persistence of glyphosate in a sandy loam. Soil Biology and Biochemistry 15 (4): 485-488. doi: 10.1016/0038-0717(83)90016-0.	E	K
IIA 7.13	Echavia GRM, Matzusawa F, Negishi N	2009	Photocatalytic degradation of organophosphate and phosphonoglycine pesticides using TiO2 immobilized on silica gel. Chemosphere 76 (5):595-600. DOI 10.1016/j.chemosphere.2009.04.055.	1	
IIA 7.13	Eker S, Ozturk L, Yazici A, Erenoglu B, Romheld V, Cakmak I	2006	Foliar-applied glyphosate substantially reduced uptake and transport of iron and manganese in sunflower (Helianthus annuus L.) plants. Journal of Agricultural and Food Chemistry 54 (26):10019-10025. Doi 10.1021/Jf0625196.	3	K

Annex point/ reference number	Author(s)	Year	Title Citation	Category	Eval uatio n / Tran slatio n
IIA 7.13 Also listed under IIA 8.16	Eriksson E, Baun A, Mikkelsen PS, Ledin A	2007	Risk assessment of xenobiotics in stormwater discharged to Harrestrup angstrom, Denmark. Desalination 215 (1-3):187-197. DOI 10.1016/j.desal.2006.12.008.	2 (7.13) 1 (8.16)	
IIA 7.13	Eriksson E, Baun A, Scholes L, Ledin A, Ahlman S, Revitt M, Noutsopoulos C, Mikkelsen PS	2007	Selected stormwater priority pollutants - a European perspective. Science of the Total Environment 383 (1-3):41-51. DOI 10.1016/j.scitotenv.2007.05.028.	1	
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IIA 7.13	Ermakova IT, Shushkova TV, Leont'evskii AA	2008	[Microbial degradation of organophosphonates by soil bacteria]. Mikrobiologiya 77 (5):689-95	1	
IIA 7.13	Farenhorst A, McQueen DAR, Saiyed I, Hilderbrand C, Li S, Lobb DA, Messing P, Schumacher TE, Papiernik SK, Lindstrom MJ	2009	Variations in soil properties and herbicide sorption coefficients with depth in relation to PRZM (pesticide root zone model) calculations. Geoderma 150 (3-4):267-277. DOI 10.1016/j.geoderma.2009.02.002.	1	
IIA 7.13	Farenhorst A, Papiernik SK, Saiyed I, Messing P, Stephens KD, Schumacher JA, Lobb DA, Li S, Lindstrom MJ, Schumacher TE	2008	Herbicide sorption coefficients in relation to soil properties and terrain attributes on a cultivated prairie. J Environ Qual 37 (3):1201-8. DOI: 10.2134/jeq2007.0109.	1	
IIA 7.13	Fobbe R, Kuhlmann B, Nolte J, Preuß G, Skark C, Zullei-Seibert N	2006	Polar Herbicides and Metabolites. In Organic Pollutants in the Water Cycle, edited by T. Reemtsma and M. Jekel. Weinheim. Wiley-VCH Verlag GmbH & Co. KGaA. doi: 10.1002/352760877X.ch6. pp 121-153. doi: 10.1002/352760877X.ch6.	1	
IIA 7.13 Also listed under IIA 7.4.7	Fomsgaard IS, Spliid NH, Felding G	2003	Leaching of pesticides through normal-tillage and low-tillage soil - A lysimeter study. II. Glyphosate. Journal of Environmental Science and Health Part B-Pesticides Food Contaminants and Agricultural Wastes 38 (1):19-35. Doi 10.1081/Pfc-120016603.	1	K

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IIA 7.13	Ghafoor A, Jarvis NJ, Thierfelder T, Stenstrom J	2011	Measurements and modeling of pesticide persistence in soil at the catchment scale. Science of The Total Environment 409 (10):1900-1908. doi: 10.1016/j.scitotenv.2011.01.049.	1	
IIA 7.13	Ghanem A, Bados P, Estaun AR, de Alencastro LF, Taibi S, Einhorn J, Mougín C	2007	Concentrations and specific loads of glyphosate, diuron, atrazine, nonylphenol and metabolites thereof in French urban sewage sludge. Chemosphere 69 (9):1368-73. DOI: 10.1016/j.chemosphere.2007.05.022.	2	
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IIA 7.13	Gimsing AL, Borggaard OK	2002	Competitive adsorption and desorption of glyphosate and phosphate on clay silicates and oxides. Clay Minerals 37 (3):509-515. Doi 10.1180/0009855023730049.	1	
IIA 7.13	Gimsing AL, Borggaard OK	2002	Effect of phosphate on the adsorption of glyphosate on soils, clay minerals and oxides. International Journal of Environmental Analytical Chemistry 82 (8-9): 545-552. Doi 10.1080/0306731021000062964.	1	
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IIA 7.13	Gimsing AL, Borggaard OK, Bang M	2004	Influence of soil composition on adsorption of glyphosate and phosphate by contrasting Danish surface soils. European Journal of Soil Science 55 (1):183-191. DOI 10.1046/j.1365-2389.2003.00585.x.	2	K
IIA 7.13	Gimsing AL, Borggaard OK, Jacobsen OS, Aamand J, Sorensen J	2004	Chemical and microbiological soil characteristics controlling glyphosate mineralisation in Danish surface soils. Applied Soil Ecology 27 (3):233-242. DOI 10.1016/j.apsoil.2004.05.007.	1	

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IIA 7.13	Gimsing AL, Szilas C, Borggaard OK	2007	Sorption of glyphosate and phosphate by variable-charge tropical soils from Tanzania. Geoderma 138 (1-2):127-132. DOI:10.1016/j.geoderma.2006.11.001.	1	
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IIA 7.13	Gjettermann B, Styczen M, Koch CB, Hansen S, Petersen CT	2011	Evaluation of sampling strategies for pesticides in a macroporous sandy loam soil. Soil & Sediment Contamination 20 (8):986-994	1	
IIA 7.13	Gregoire C, Payraudeau S, Domange N	2010	Use and fate of 17 pesticides applied on a vineyard catchment. International Journal of Environmental Analytical Chemistry 90 (3-6):406-420. DOI: 10.1080/03067310903131230.	2	
IIA 7.13	Grey TL, Vencill WK, Webster TM, Culpepper AS	2009	Herbicide Dissipation from Low Density Polyethylene Mulch. Weed Science 57 (3): 351-356. Doi 10.1614/Ws-08-144.1.	1	
IIA 7.13 Also listed under IIA 7.4.7	Grundmann S, Dörfler U, Ruth B, Loos C, Wagner I, Karl H, Munch J, Schroll R	2008	Mineralization and Transfer Processes of 14C-labeled Pesticides in Outdoor Lysimeters. Water, Air, & Soil Pollution: Focus 8 (2):177-185	1	K
IIA 7.13	Grunewald K, Schmidt W, Unger C, Hanschmann G	2001	Behavior of glyphosate and aminomethylphosphonic acid (AMPA) in soils and water of reservoir Radeburg II catchment (Saxony/Germany). Journal of Plant Nutrition and Soil Science-Zeitschrift Fur Pflanzenernahrung Und Bodenkunde 164 (1):65-70	1	
IIA 7.13	Haarstad K, Ludvigsen GH	2007	Ten years of pesticide monitoring in Norwegian ground water. Ground Water Monitoring and Remediation 27 (3):75-89	1	

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IIA 7.13	Hanke I, Wittmer I, Bischofberger S, Stamm C, Singer H	2010	Relevance of urban glyphosate use for surface water quality. Chemosphere 81 (3):422-9. DOI:10.1016/j.chemosphere.2010.06.067.	1	
IIA 7.13	Henry RS, Wise KA, Johnson WG	2011	Glyphosate's effect upon mineral accumulation in soybean. Crop Management (October). doi:10.1094/CM-2011-1024-01-RS.	1	
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IIA 7.13	Huang XJ, Pedersen T, Fischer M, White R, Young TM	2004	Herbicide runoff along highways. 2. Sorption control. Environmental Science & Technology 38 (12):3272-3278	1	
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IIA 7.13	Jia D, Zhou C, Li C	2011	Adsorption of Glyphosate on Resin Supported by Hydrated Iron Oxide: Equilibrium and Kinetic Studies. Water Environment Research 83 (9):784-790. doi: 10.2175/106143011x12928814445339.	1	
IIA 7.13	Jolley VD, Hansen NC, Shiffler AK	2004	Nutritional and management related interactions with iron-deficiency stress response mechanisms. Soil Science and Plant Nutrition 50 (7):973-981	2	K

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IIA 7.13	Kah M, Brown CD	2006	Adsorption of ionisable pesticides in soils. Reviews of Environmental Contamination and Toxicology 188:149-217	1	
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IIA 7.13	Karpouzas DG, Singh BK	2006	Microbial degradation of organophosphorus xenobiotics: Metabolic pathways and molecular basis. Advances in Microbial Physiology, Vol 51 51:119-185. Doi 10.1016/S0065-2911(06)51003-3.	2	
IIA 7.13	Kempenaar C, Lotz LAP, van der Horst CLM, Beltman WHJ, Leemans KJM, Bannink AD	2007	Trade off between costs and environmental effects of weed control on pavements. Crop Protection 26 (3):430-435. DOI:10.1016/j.cropro.2006.01.022.	1	
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IIA 7.13	Kilbride KM, Pavaglio FL	2001	Long-term fate of glyphosate associated with repeated rodoe applications to control smooth cordgrass (Spartina alterniflora) in Willapa Bay, Washington. Archives of Environmental Contamination and Toxicology 40 (2):179-183	1	
IIA 7.13	Kim BJ, Kim Y, Kim B, Hay AG, McBride MB, Kim YS, Kim BM	2011	Effect of soil metal contamination on glyphosate mineralization: role of zinc in the mineralization rates of two copper-spiked mineral soils. Environmental Toxicology and Chemistry 30 (3):596-601. DOI: 10.1002/etc.424.	1	
IIA 7.13	Kinrser EMD, Martire DO, Gonzalez MC, Rosso JA	2010	Degradation of the Herbicides Clomazone, Paraquat, and Glyphosate by Thermally Activated Peroxydisulfate. Journal of Agricultural and Food Chemistry 58 (24): 12858-12862. Doi 10.1021/Jf103054h.	1	
IIA 7.13	Kjaer J, Ernsten V, Jacobsen OH, Hansen N, de Jonge LW, Olsen P	2011	Transport modes and pathways of the strongly sorbing pesticides glyphosate and pendimethalin through structured drained soils. Chemosphere 84 (4):471-479. doi: 10.1016/j.chemosphere.2011.03.029.	2	K

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IIA 7.13	Kjaer J, Ernstsén V, de Jonge LW, Olsen P	2011	Reply to Comments on "Transport modes and pathways of the strongly sorbing pesticides glyphosate and pendimethalin through structured drained soils" by Petersen, C.T. and Hansen, S. Chemosphere 84 (4) (2011) 471-479. Chemosphere 85 (9):1539-1541. doi: 10.1016/j.chemosphere.2011.07.003	2	K
IIA 7.13	Kjaer J, Olsen P, Ullum M, Grant R	2005	Leaching of glyphosate and amino-methylphosphonic acid from Danish agricultural field sites. Journal of Environmental Quality 34 (2):608-620	2	K
IIA 7.13 Also listed under IIA 8.16	Kleter GA, Harris C, Stephenson G, Unsworth J	2008	Comparison of herbicide regimes and the associated potential environmental effects of glyphosate-resistant crops versus what they replace in Europe. Pest Manag Sci 64 (4):479-88. DOI: 10.1002/ps.1513.	1	
IIA 7.13	Klier C, Grundmann S, Gayler S, Priesack E	2008	Modelling the Environmental Fate of the Herbicide Glyphosate in Soil Lysimeters. Water, Air, & Soil Pollution: Focus 8 (2):187-207	1	
IIA 7.13	Klimek M, Hejczak B, Kafarski P, Forlani G	2001	Metabolism of the phosphonate herbicide glyphosate by a non-nitrate-utilizing strain of <i>Penicillium chrysogenum</i> . Pest Management Science 57 (9):815-821	1	
IIA 7.13	Kogan M, Metz A, Ortega R	2003	Adsorption of glyphosate in Chilean soils and its relationship with unoccupied phosphate binding sites. Pesquisa Agropecuaria Brasileira 38 (4):513-519	1	
IIA 7.13	Kolpin D, Battaglin W, Com K, Furlong E, Glassmeyer S, Kalkhoff S, Meyer M, Schnoebelen D	2009	Occurrence of Transformation Products in the Environment. In Transformation Products of Synthetic Chemicals in the Environment. pp 83-100. DOI: 10.1007/698_2_011.	1	
IIA 7.13	Kolpin DK, Schnoebelen DJ, Thurman EM	2004	Degradates provide insight to spatial and temporal trends of herbicides in ground water. Ground Water 42 (4):601-608	1	
IIA 7.13	Kolpin DW, Thurman EM, Lee EA, Meyer MT, Furlong ET, Glassmeyer ST	2006	Urban contributions of glyphosate and its degradate AMPA to streams in the United States. Sci Total Environ 354 (2-3):191-7. DOI: 10.1016/j.scitotenv.2005.01.028.	2	

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IIA 7.13	Kremer RJ, Means NE, Kim S	2005	Glyphosate affects soybean root exudation and rhizosphere micro-organisms. International Journal of Environmental Analytical Chemistry 85 (15):1165-1174. Doi 10.1080/03067310500273146.	3	K
IIA 7.13	Laitinen P, Rämö S, Nikunen U, Jauhainen L, Siimes K, Turtola E	2009	Glyphosate and phosphorus leaching and residues in boreal sandy soil. Plant and Soil 323 (1):267-283	2	K
IIA 7.13	Laitinen P, Ramo S, Siimes K	2007	Glyphosate translocation from plants to soil - does this constitute a significant proportion of residues in soil? Plant and Soil 300 (1-2):51-60. DOI 10.1007/s11104-007-9387-1	2	
IIA 7.13	Laitinen P, Siimes K, Erönen L, Rämö S, Welling L, Oinonen S, Mattsson L, Ruohonen-Lähtö M	2006	Fate of the herbicides glyphosate, glufosinate-ammonium, phenmedipham, ethofumesate and metamilon in two Finnish arable soils. Pest Manag Sci 62 (6): 473-91. DOI: 10.1002/ps.1186.	1	
IIA 7.13	Laitinen P, Siimes K, Ramo S, Jauhainen L, Erönen L, Oinonen S, Hartikainen H	2008	Effects of soil phosphorus status on environmental risk assessment of glyphosate and glufosinate-ammonium. J Environ Qual 37 (3):830-8. DOI: 10.2134/jeq2007.0256.	2	K
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IIA 7.13	Landry D, Dousset S, Fournier JC, Andreux F	2005	Leaching of glyphosate and AMPA under two soil management practices in Burgundy vineyards (Vosne-Romane'e, 21-France). Environmental Pollution 138 (2): 191-200. DOI 10.1016/j.envpol.2005.04.007.	2	K
IIA 7.13 Also listed under IIA 8.16	Lane M, Lorenz N, Saxena J, Ramsier C, Dick RP	2012	Microbial activity, community structure and potassium dynamics in rhizosphere soil of soybean plants treated with glyphosate. Pedobiologia 55 (3):153-159. doi: 10.1016/j.pedobi.2011.12.005.	1	
IIA 7.13	Lashermes G, Barriuso E, Houot S	2012	Dissipation pathways of organic pollutants during the composting of organic wastes. Chemosphere. doi: 10.1016/j.chemosphere.2011.12.004.	1	
IIA 7.13	Lashermes G, Houot S, Barriuso E	2010	Sorption and mineralization of organic pollutants during different stages of composting. Chemosphere 79 (4):455-462. DOI: 10.1016/j.chemosphere.2010.01.041.	1	
IIA 7.13	Lexow G, Morell I, Bonorino AG	2005	Glyphosate mobility in piedmont soils of the Australes range in the south of Buenos Aires Province. Edited by E. H. M. A. U. E. Bocanegra. ed. vols. Vol. 6, Groundwater and Human Development. 'Original edition',	1	
IIA 7.13	Lin CH, Jerich RN, Goyne KW, Garrett HE	2011	Reducing Herbicides and Veterinary Antibiotics Losses from Agroecosystems Using Vegetative Buffers. Journal of Environmental Quality 40 (3):791-799. doi: 10.2134/jeq2010.0141.	1	
IIA 7.13	Litz NT, Weigert A, Krause B, Heise S, Gruetzmacher G	2011	Comparative studies on the retardation and reduction of glyphosate during subsurface passage. Water Research 45 (10):3047-3054. DOI: 10.1016/j.watres.2011.02.015.	1	
IIA 7.13	Ludvigsen GH, Lode O	2001	Results from "JOVA" - The agricultural and environmental monitoring program of pesticides in Norway 1995-1999. Fresenius Environmental Bulletin 10 (5):470-474	1	

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IIA 7.13	Machado AFL, Ferreira LR, Tuffi Santos LD, Santos JB, Ferreira FA, Viana RG	2009	Absorption, translocation and radicular glyphosate exudation in Eucalyptus sp. clones. Planta Daninha 27 (3):549-554. doi: 10.1590/s0100-83582009000300016.	1	
IIA 7.13	Magga Z, Tzovolou DN, Theodoropoulou MA, Dalkarani T, Pikios K, Tsakiroglou CD	2008	Soil column experiments used as a means to assess transport, sorption, and biodegradation of pesticides in groundwater. J Environ Sci Health B 43 (8):732-41. DOI: 10.1080/03601230802388868.	1	
IIA 7.13	Magga Z, Tzovolou DN, Theodoropoulou MA, Tsakiroglou CD	2012	Combining experimental techniques with non-linear numerical models to assess the sorption of pesticides on soils. Journal of Contaminant Hydrology 129/130:62-69. doi: 10.1016/j.jconhyd.2011.09.010.	1	
IIA 7.13	Maillard E, Payraudeau S, Faiyre E, Gregoire C, Gangloff S, Imfeld G	2011	Removal of pesticide mixtures in a stormwater wetland collecting runoff from a vineyard catchment. Science of The Total Environment 409 (11):2317-2324. doi: 10.1016/j.scitotenv.2011.01.057.	1	
IIA 7.13	Maillard E, Payraudeau S, Ortiz F, Imfeld G	2012	Removal of dissolved pesticide mixtures by a stormwater wetland receiving runoff from a vineyard catchment: an inter-annual comparison. International Journal of Environmental Analytical Chemistry:1-16. doi: 10.1080/03067319.2011.609935.	1	
IIA 7.13 Also listed under IIA 8.16	Major WW, Grue CE, Gardner SC, Grassley JM	2003	Concentrations of glyphosate and AMPA in sediment following operational applications of Rodeo (R) to control smooth cordgrass in Willapa Bay, Washington, USA. Bulletin of Environmental Contamination and Toxicology 71 (5):912-918. DOI 10.1007/s00128-003-8905-y.	1	
IIA 7.13	Malaguerra F, Albrechtsen HJ, Binning PJ	2010	Contamination of drinking water supply wells by pesticides from surface water resources. In Proceedings of the XVIII International Conference on Water Resources, edited by J. Carrera. CIMNE, Barcelona. CMWR. pp 746-756.	1	

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IIA 7.13	Malone RW, Shipitalo MJ, Wauchope RD, Sumner H	2004	Residual and contact herbicide transport through field lysimeters via preferential flow. Journal of Environmental Quality 33 (6):2141-2148	1	
IIA 7.13	Mamy L, Barriuso E	2007	Desorption and time-dependent sorption of herbicides in soils. European Journal of Soil Science 58 (1):174-187	1	
IIA 7.13	Mamy L, Barriuso E	2005	Glyphosate adsorption in soils compared to herbicides replaced with the introduction of glyphosate resistant crops. Chemosphere 61 (6):844-855. DOI 10.1016/j.chemosphere.2005.04.051	1	
IIA 7.13	Mamy L, Barriuso E, Gabrielle B	2005	Environmental fate of herbicides trifluralin, metazachlor, metamitron and sulcotrione compared with that of glyphosate, a substitute broad spectrum herbicide for different glyphosate-resistant crops. Pest Management Science 61 (9):905-916. Doi 10.1002/Ps.1108.	1	
IIA 7.13	Mamy L, Gabrielle B, Barriuso E	2010	Comparative environmental impacts of glyphosate and conventional herbicides when used with glyphosate-tolerant and non-tolerant crops. Environ Pollut 158 (10):3172-8. DOI: 10.1016/j.envpol.2010.06.036.	2	
IIA 7.13	Mamy L, Gabrielle B, Barriuso E	2008	Measurement and modelling of glyphosate fate compared with that of herbicides replaced as a result of the introduction of glyphosate-resistant oilseed rape. Pest Manag Sci 64 (3):262-75. DOI: 10.1002/ps.1519.	2	
IIA 7.13	Manassero A, Passalia C, Negro AC, Cassano AE, Zalazar CS	2010	Glyphosate degradation in water employing the H2O2/UVC process. Water Research 44 (13):3875-82. DOI: 10.1016/j.watres.2010.05.004.	1	
IIA 7.13	Mattos MLT, Peralba MDCR, Dias SLP, Prata F, Camargo L	2002	Environmental Monitoring Of Glyphosate and Its Metabolite (aminomethylphosphonic acid) In Tillage Water Of Irrigated Rice. Pesticidas: R.Ecotoxicol. e Meio Ambiente, Curitiba 12:145-154	1	

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IIA 7.13	Messing PG, Farenhorst A, Waite DT, McQueen DAR, Sproull JF, Humphries DA, Thompson LL	2011	Predicting wetland contamination from atmospheric deposition measurements of pesticides in the Canadian Prairie Pothole region. Atmospheric Environment 45 (39): 7227-7234	2	
IIA 7.13	Moneke AN, Okpala GN, Anyanwu CU	2010	Biodegradation of glyphosate herbicide in vitro using bacterial isolates from four rice fields. African Journal of Biotechnology 9 (26):4067-4074	1	
IIA 7.13	Morillo E, Undabeytia T, Maqueda C, Ramos A	2002	The effect of dissolved glyphosate upon the sorption of copper by three selected soils. Chemosphere 47 (7):747-752	2	
IIA 7.13 Also listed under IIA 8.16	Motavalli PP, Kremer RJ, Fang M, Means NE	2004	Impact of genetically modified crops and their management on soil microbially mediated plant nutrient transformations. Journal of Environmental Quality 33 (3): 816-824	1	
IIA 7.13	Neumann G, Köhls S, Landsberg E, Stock-Oliveira Souza K, Yamada T, Romheld V	2006	Relevance of glyphosate transfer to non-target plants via the rhizosphere. Journal of Plant Diseases and Protection (Special Issue 20):963-969	3	K
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IIA 7.13	Peschka M, Müller J, Knepper T, Seel P	2006	Trends in Pesticide Transport into the River Rhine. In The Rhine. pp 155-175.	2	
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