**Data Dictionary**

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| **Column** | **Description** |
| ID | Responder’s identification number: 1.0, 2.0, 3.0, … is ID of case with lung cancer, 1.1, 1.2, 2.1, … is ID of control without lung cancer |
| LungCA | Lung cancer status of responders: 0 refer to control without lung cancer, 1 refer to case with lung cancer |
| Gender | Gender/sex of the responders, 1 refer to male, 0 refer to female |
| Age | Age in year of each responders |
| Age\_group | Responders in each group, 1 refers to those with age less than or equal to 54, 2 refer to those with age 55-64 yr, 3 refer to those with age 65-74 yr, 4 refer to those with age 75 yr or more |
| Status | Marital status of the responders, 1 refer to those who are single, 2 refer to those who are married, 3 refer to those who are divorced/spouse passed away/separated |
| Education | Education level completed by the responders, 1 refer to those who are finished primary school, 2 refer to those who are finished high school, 3 refer to those who are finished undergraduate or higher degree |
| Occupation | Occupation of the responders, 0 refer to those who are non-farmer, 1 refer to those who are farmer |
| Residency | Living duration (years) in a community of the responders, 1 refer to those who have lived in a community for less than 21 years, 2 refer to those who have lived in a community 21-30 years, 3 refer to those who have lived in a community for more than 30 years |
| Distances | Responders’ distances between home and their nearest farmland, 1 refer to responders who have the distance less than 500 m, 2 refer those who have the distances 500-1,000 m, 3 refer to those who have distances more than 1,000 m |
| Cooking\_fume | Cooking fume exposure, 1 refer those who have ever exposure to cooking fume, 2 refer those did not exposure to cooking fume, |
| Air\_Pollution\_ exposure | Responders’ exposure to air pollution from various sources, e.g. working in factory with air pollution (asbestos, diesel engine exhaust, silica, wood dust, painting and welding exposure), 0 refer to responders who did not exposure to air pollution, 1 refer to responders who exposure to air pollution |
| CigSmoke1 | Tobacco use by responders, 0 refer those who have never smoked a cigarette, 1 refer to current smoker or ex-smoker |
| CigSmoke2 | Tobacco use by responders, 0 refer those who have never smoked a cigarette, 1 refer to those who smoke less than 109500 cigarettes, 2 refer to those who smoke 109500 cigarettes or more |
| Cigarette\_total | Number of cigarettes the study responders smoked in a lifetime. |
| Cigarette\_year | Number of years the responders has been smoked cigarette |
| Cigarette\_number | Number of cigarettes responders smoked per day |
| CigSmoke\_Status | Tobacco status of responders, 1 refer those who have never smoked a cigarette, 1 refer to ex-smoker, 3 refer to current smoker |
| Herbicide | Exposure to herbicides of responders, 0 refer to those who have never used herbicides, 1 refer to those who ever used herbicides |
| Herbicides\_year | Number of years each responder using herbicides |
| Herbicide\_year\_group | Groups of years each responder using herbicides, 1 refer to those using the herbicides 1-10 years, 2 refer to those using the herbicides 11-30 years, 3 refer to those using the herbicides more than 30 years |
| Herbicides days | Number of days using the herbicides of each responder |
| Herbicides day group | Responders’ quartile of days using the herbicides, 1 refer to those who have number of days using the herbicides less than 160 days (Quartile 1), 2 refer to those who have number of days using the herbicides between 160-500 days (Quartile 2), 3 refer to those who have number of days using the herbicides between 500-960 days (Quartile 3), 4 refer to those who have number of days using the herbicides more than 960 days (Quartile 4) |
| Insecticides | Exposure to insecticides of responders, 0 refer to those who are not use insecticides, 1 refer to those who are use insecticides |
| Insecticide year | Number of years using the insecticides of each responders |
| Insecticide year group | Groups of years each responder using insecticides, 1 refer to those using the herbicides 1-10 years, 2 refer to those using the herbicides 11-30 years, 3 refer to those using the herbicides more than 30 years |
| Insecticide days | Number of days using the insecticides of each responders |
| Insecticide day group | Responders’ quartile of days using the herbicides, 1 refer to those who have number of days using the insecticides less than 200 days (Quartile 1), 2 refer to those who have number of days using the insecticides 200-480 days (Quartile 2), 3 refer to those who have number of days using the insecticides 481-1,200 days (Quartile 3), 4 refer to those who have number of days using the insecticides more than 1,200 days (Quartile 4) |
| Fungicides | Exposure to fungicides of responders, 0 refer to those who are not use fungicides, 1 refer to those who are use fungicides |
| Fungicide years | Number of years using fungicides of each responders |
| Fungicide year group | Groups of years each responder using fungicides, 1 refer to those using the fungicides 1-10 years, 2 refer to those using the fungicides 11-30 years, 3 refer to those using the fungicides more than 30 years |
| Fungicide days | Number of days using the fungicides of each responders |
| Fungicide day group | Responders’ quartile of days using fungicides, 1 refer to those who have number of days using fungicides less than 96 days (Quartile 1), 2 refer to those who have number of days using fungicides between 96-160 days (Quartile 2), 3 refer to those who have number of days using fungicides between 161-530 days (Quartile 3), 4 refer to those who have number of days using fungicides more than 530 days (Quartile 4) |
| Glyphosate use | Exposure to Glyphosate herbicide (Roundup/ Touchdown/ Spark) of responders, 0 refer to those who did not use Glyphosate, 1 refer to those who used Glyphosate |
| Glyphosate days | Number of days using the glyphosate of each responder |
| Paraquat use | Exposure to Paraquat herbicide (Gramoxone/ Knockxone) of responders, 0 refer to those who did not use Paraquat, 1 refer to those who used Paraquat |
| Paraquat days | Number of days using the paraquat of each responder |
| 2, 4-Dichlorophenoxy use | Exposure to 2,4-Dichlorophenoxy herbicide of responders, 0 refer to those who did not use 2,4-Dichlorophenoxy, 1 refer to those who used 2,4-Dichlorophenoxy |
| 2, 4-Dichlorophenoxy days | Number of days using the 2, 4-Dichlorophenoxy of each responder |
| Butachlor use | Exposure to Butachlor herbicide of responders, 0 refer to those who did not use Butachlor, 1 refer to those who used Butachlor |
| Butachlor days | Number of days using the butachlor of each responder |
| Propanil use | Exposure to Propanil herbicide of responders, 0 refer to those who did not use Propanil, 1 refer to those who used Propanil |
| Propanil days | Number of days using the propanil of each responder |
| Alachlor use | Exposure to Alachlor herbicide of responders, 0 refer to those who did not use Alachlor, 1 refer to those who used Alachlor |
| Alachlor days | Number of days using the alachlor of each responder |
| Endosulfan use | Exposure to Endosulfan insecticide of responders, 0 refer to those who did not use Endosulfan, 1 refer to those who used Endosulfan |
| Endosulfan days | Number of days using the endosulfan of each responder |
| Dieldrin use | Exposure to Dieldrin insecticide of responders, 0 refer to those who did not use Dieldrin, 1 refer to those who used Dieldrin |
| Dieldrin days | Number of days using the dieldrin of each responder |
| DDT use | Exposure to DDT (Dichlorodiphenyltrichloroethane) insecticide of responders, 0 refer to those who did not use DDT, 1 refer to those who used DDT |
| DDT days | Number of days using the DDT of each responder |
| Chlorpyrifos use | Exposure to Chlorpyrifos insecticide of responders, 0 refer to those who did not use Chlorpyrifos, 1 refer to those who used Chlorpyrifos |
| Chlorpyrifos days | Number of days using the chlorpyrifos of each responder |
| Folidol use | Exposure to Folidol insecticide of responders, 0 refer to those who did not use Folidol, 1 refer to those who used Folidol |
| Folidol days | Number of days using the folidol of each responder |
| Mevinphos use | Exposure to Mevinphos insecticide of responders, 0 refer to those who did not use Mevinphos, 1 refer to those who used Mevinphos |
| Mevinphos days | Number of days using the mevinphos of each responder |
| Carbaryl/Savin use | Exposure to Carbaryl/Savin insecticide of responders, 0 refer to those who did not use Carbaryl/Savin, 1 refer to those who used Carbaryl/Savin |
| Carbaryl/Savin days | Number of days using the carbaryl/savin of each responder |
| Carbofuran use | Exposure to Carbofuran insecticide of responders, 0 refer to those who did not use Carbofuran, 1 refer to those who used Carbofuran |
| Carbofuran days | Number of days using the carbofuran of each responder |
| Abamectin use | Exposure to Abamectin insecticide of responders, 0 refer to those who did not use Abamectin, 1 refer to those who used Abamectin |
| Abamectin days | Number of days using the abamectin of each responder |
| Armure/Propiconazole use | Exposure to Armure/Propiconazole fungicide of responders, 0 refer to those who did not use Armure/Propiconazole, 1 refer to those who used Armure/Propiconazole |
| Armure/Propiconazole days | Number of days using the armure/propiconazole of each responder |
| Methyl aldehyde use | Exposure to Methyl aldehyde fungicide of responders, 0 refer to those who did not use Methyl aldehyde, 1 refer to those who used Methyl aldehyde |
| Methyl aldehyde days | Number of days using the Methyl aldehyde of each responder |
| Morphology group | Morphology of lung cancer cases, 0 refer to control (not lung cancer), 1 refer to adenocarcinoma, 2 refer to squamous cell carcinoma, 3 refer to small cell carcinoma, 4 refer to large cell carcinoma, 5 refer to neoplasm, malignant, and 6 refer to other and unspecified |