**Nepal point frame survey – variables**

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| Attribute name | Description | Label in DET |
| district | District ID: Chitwan (*42*) or Kavre (*56*) | 1 - Select the District |
| segment\_id | Segment ID: sequential segment number | 2 - Select the Segment Id |
| point\_id | Point ID: 1, 2, 3 or 4 depending on the position of the point in the segment | 2a - Select the Point ID |
| point\_code | Combination of District-Segment-Point ID (unique identifier) |  |
| su\_id | Enumerator ID | 3 - Surveyor ID |
| su\_date | Survey date dd/mm/yyyy | 4 - Survey Date |
| start\_time | Start time of point observation hh:mm | 5 - Start Time of the point observation |
| dist\_point | Distance to the sample point according to map: less than 2 m (*lt2m*) or more than 2 m (*gt2m*) | 6 - Distance to the sample point? |
| dist\_m | Distance to the sample point according to GPS in m | 7 - Distance to the point by Garmin GPS |
| imp\_type | Type of impediment blocking the way to the point:  *1 = permanent*  *2 = temporary* | 8 - Type of impediment blocking the way to the point |
| imp\_list | Impediment from the list:  *See code list for impediments* | 9 - Describe the impediment |
| imp\_list\_qualifier | Other impediment if not in the list | Other / specify |
| wp\_gps | ID of the GPS waypoint taken with the Garmin | 10 - Take a waypoint with the GPS device and note the number of the waypoint displayed in the 'Mark' Page on the GPS. |
| coord\_obs | Tablet coordinate GPS coordinates:  e.g. SRID=EPSG:4326;POINT(85.501584 27.630530) | 11 - Take GPS coordinates with the tablet |
| coord\_obs\_srs | EPSG Code of coordinate reference system: *EPSG:4326* = WGS 84 |  |
| coord\_obs\_x | X coordinate |  |
| coord\_obs\_y | Y coordinate |  |
| point\_obs | Is the point observed *1*= YES, *2*= NO | 12 - Is the point observed? |
| not\_obs | Reason for not observed points:  *See code list for not observed reasons* | 13 - Why is the point not observed? |
| not\_obs\_qualifier | Other reason if not in the list | Other / specify |
| point\_loc | Point on a limit or border between different LCs and assigned to North or East plot?  *2=No*  *3=North*  *4=East* | 14 - Is Point on limit / border and has to be assigned to the North or East plot? |
| lc\_cat1 | Main land cover (LC1) Category:  *See code list for LC category* | 15 - Main Land Cover (LC1) Category |
| lc\_group1 | Main Land cover (LC1) Group  *See code list for LC Group* | 15 - Main Land Cover (LC1) Group |
| lc\_code1 | Main Land cover (LC1) Code  *See code list for LC Code* | 15 - Main Land Cover (LC1) Code |
| lc\_code1\_qualifier | Describe LC1 if not in the list |  |
| lc\_pct1 | Percent of coverage in observation radius around the point | 16 - Main Land Cover (LC1) coverage in % |
| lc\_sea1 | Season of the main land cover crop  *1=spring*  *2=summer*  *3=winter*  *9=Others / specify* | 17 - Main Land Cover (LC1) growing season |
| lc\_sea1\_qualifier | Describe other season in case 9 e.g. multiple seasons for permanent crops |  |
| lc\_cat2 | Second land cover (LC2) Category:  *See code list for LC category* | 18 - Second Land Cover (LC2) Category |
| lc\_group2 | Second Land cover (LC2) Group  *See code list for LC Group* | 18 - Second Land Cover (LC2) Group |
| lc\_code2 | Second Land cover (LC2) Code  *See code list for LC Code* | 18 - Second Land Cover (LC2) Code |
| lc\_code2\_qualifier | Describe LC2 if not in the list |  |
| lc\_pct2 | Percent of coverage in observation radius around the point | 19 - Second Land Cover (LC2) coverage in % |
| lc\_sea2 | Season of the second land cover crop  *1=spring*  *2=summer*  *3=winter*  *9=Others / specify* | 20 - Second Land Cover (LC2) growing season |
| Lc\_sea2\_qualfier | Describe other season in case 9 e.g. multiple seasons for permanent crops |  |
| lc\_cat3 | Third land cover (LC3) Category:  *See code list for LC category* | 21 - Third Land Cover (LC3) Category |
| lc\_group3 | Third Land cover (LC3) Group  *See code list for LC Group* | 21 - Third Land Cover (LC3) Group |
| lc\_code3 | Third Land cover (LC3) Code  *See code list for LC Code* | 21 - Third Land Cover (LC3) Code |
| lc\_code3\_qualifier | Describe LC3 if not in the list |  |
| lc\_pct3 | Percent of coverage in observation radius around the point | 22 - Third Land Cover (LC3) coverage in % |
| lc\_sea3 | Season of the Third land cover crop  *1=spring*  *2=summer*  *3=winter*  *9=Others / specify* | 23 - Third Land Cover (LC3) growing season |
| lc\_sea3\_qualifier | Describe other season in case 9 e.g. multiple seasons for permanent crops |  |
| pct\_check | Sum of LC percentage | Check on the data entries. The total coverage of LC1, LC2 and LC3 must be 100%. |
| harvest | Main crop already harvested at time of survey?  *1=Yes*  *2=No*  *9=Others / specify* | 24 - Is the main crop in the field already harvested? |
| Harvest\_qualifier | Describe other in case of 9 e.g. partly harvested |  |
| d\_harv | Approximate date of harvesting dd/mm/yyyy | 25 - Approximate date of harvesting |
| irrig | Irrigation  1=*Irrigated*,  *2=Not Irrigated*  *3=Not sure if irrigated*. | 26 - Is the field irrigated? |
| lc\_remark | Land cover remarks | 27 - Land cover remarks |
| photo | Original filename of photo | 28 - Take a photo of the point showing the land cover. |
| remarks | Any additional information on the point survey | 29 - Remarks |
| entry\_loc | Place of data entry in the tablet:  *1=in the field – at or near the point*  *2=in the office / hotel or home*  *9=other location – specify* | 30 - Where was the data entered in the tablet? |
| entry\_loc\_qualifier | Describe location in case of 9 |  |
| end\_time | End time of the point survey hh:mm | 31 - Record the end time of the point survey |

**Nepal point frame survey – Data Entry Tool (DET) code lists**

|  |  |
| --- | --- |
| 6 - Distance to the sample point? | |
| lt2m | Less than 2 meters |
| gt2m | More than 2 meters |

|  |  |  |  |
| --- | --- | --- | --- |
| 8 - Type of impediment | | 9 - Describe the impediment | |
| 1 | permanent | 11 | No road |
| 12 | Steep slope / Escarpment / Cliff |
| 13 | Gully / Ravine |
| 14 | River - no bridge |
| 15 | Waterlogged - wet area |
| 16 | Thick vegetation |
| 17 | Linear building - wall, fence |
| 18 | Restricted area |
| 19 | Low GPS signal |
| 10 | Other permanent impediment |
| 2 | temporary | 21 | Flooded areas |
| 22 | Blocked road/path |
| 23 | Broken bridge |
| 24 | Authority needed |
| 25 | Wrong route side approach |
| 26 | Standing crops at the point |
| 20 | Other temporary impediment |

|  |  |
| --- | --- |
| 12 - Is the point observed? | |
| 1 | Yes |
| 2 | No |

|  |  |
| --- | --- |
| 13 - Why is the point not observed? | |
| 1 | Too far to see land cover |
| 2 | Too difficult identifying point position |
| 3 | View to the point blocked by vegetation, wall, landscape, etc... |
| 9 | Other - specify |

|  |  |
| --- | --- |
| 14 - Is Point on limit / border and has to be assigned to the North or East plot? | |
| 2 | No |
| 3 | North |
| 4 | East |

|  |  |
| --- | --- |
| 17 - .... growing season | |
| 1 | spring |
| 2 | summer |
| 3 | winter |
| 9 | Others - specify |

|  |  |
| --- | --- |
| 24 - Is the main crop in the field already harvested? | |
| 1 | Yes |
| 2 | No |
| 9 | Others - specify |

|  |  |
| --- | --- |
| 26 - Is the field irrigated? What type of irrigation? | |
| 1 | Irrigated |
| 2 | Not irrigated |
| 3 | Not sure if irrigated |

|  |  |
| --- | --- |
| 30 - Where was the data entered in the tablet? | |
| 1 | in the field - at or near the point |
| 2 | in the office / hotel or home |
| 9 | other location - specify |

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| LC category | | LC Group | | LC Code | |
| B | Arable land | B1 | Cereal crops | B101 | Rice - Early paddy |
| B | Arable land | B1 | Cereal crops | B102 | Rice - Main paddy |
| B | Arable land | B1 | Cereal crops | B103 | Rice - Upland paddy |
| B | Arable land | B1 | Cereal crops | B104 | Wheat |
| B | Arable land | B1 | Cereal crops | B105 | Maize - Spring/winter |
| B | Arable land | B1 | Cereal crops | B106 | Maize - Summer |
| B | Arable land | B1 | Cereal crops | B107 | Millet |
| B | Arable land | B1 | Cereal crops | B108 | Barley / naked barley |
| B | Arable land | B1 | Cereal crops | B109 | Buckwheat |
| B | Arable land | B1 | Cereal crops | B110 | Other cereals |
| B | Arable land | B2 | Pulses | B201 | Soybeans |
| B | Arable land | B2 | Pulses | B202 | Black grams |
| B | Arable land | B2 | Pulses | B203 | Red grams |
| B | Arable land | B2 | Pulses | B204 | Grass pea |
| B | Arable land | B2 | Pulses | B205 | Lentil |
| B | Arable land | B2 | Pulses | B206 | Gram |
| B | Arable land | B2 | Pulses | B207 | Pea |
| B | Arable land | B2 | Pulses | B208 | Green gram |
| B | Arable land | B2 | Pulses | B209 | Horse gram |
| B | Arable land | B2 | Pulses | B210 | Cow pea |
| B | Arable land | B2 | Pulses | B211 | Other legumes |
| B | Arable land | B3 | Root crops | B301 | Potato - Winter |
| B | Arable land | B3 | Root crops | B302 | Potato ï¿½ Summer |
| B | Arable land | B3 | Root crops | B303 | Sweet potato |
| B | Arable land | B3 | Root crops | B304 | Colocasia |
| B | Arable land | B3 | Root crops | B305 | Other root crops |
| B | Arable land | B4 | Oil seeds | B401 | Mustard seeds |
| B | Arable land | B4 | Oil seeds | B402 | Ground nut |
| B | Arable land | B4 | Oil seeds | B403 | Linseed |
| B | Arable land | B4 | Oil seeds | B404 | Sesame |
| B | Arable land | B4 | Oil seeds | B405 | Nijer seed |
| B | Arable land | B4 | Oil seeds | B406 | Other oilseeds |
| B | Arable land | B5 | Cash crops | B501 | Sugarcane |
| B | Arable land | B5 | Cash crops | B502 | Jute |
| B | Arable land | B5 | Cash crops | B503 | Tobacco |
| B | Arable land | B5 | Cash crops | B504 | Floriculture and ornamental plants |
| B | Arable land | B5 | Cash crops | B505 | Other non permanent cash crops |
| B | Arable land | B6 | Spices | B601 | Chili |
| B | Arable land | B6 | Spices | B602 | Onion |
| B | Arable land | B6 | Spices | B603 | Garlic |
| B | Arable land | B6 | Spices | B604 | Ginger |
| B | Arable land | B6 | Spices | B605 | Turmeric |
| B | Arable land | B6 | Spices | B606 | Coriander seed |
| B | Arable land | B6 | Spices | B607 | Other spices |
| B | Arable land | B7 | Vegetables | B701 | Cauliflower |
| B | Arable land | B7 | Vegetables | B702 | Cabbage |
| B | Arable land | B7 | Vegetables | B703 | Tomato |
| B | Arable land | B7 | Vegetables | B704 | Brinjal (Eggplant) |
| B | Arable land | B7 | Vegetables | B705 | Bitter gourd |
| B | Arable land | B7 | Vegetables | B706 | Lady's fingers (Okras) |
| B | Arable land | B7 | Vegetables | B707 | Bell pepper chili |
| B | Arable land | B7 | Vegetables | B708 | Cucumber |
| B | Arable land | B7 | Vegetables | B709 | Pumpkin |
| B | Arable land | B7 | Vegetables | B710 | Bottle gourd |
| B | Arable land | B7 | Vegetables | B711 | Sponge gourd |
| B | Arable land | B7 | Vegetables | B712 | Christophine |
| B | Arable land | B7 | Vegetables | B713 | Pointed gourd |
| B | Arable land | B7 | Vegetables | B714 | Hyacinth bean |
| B | Arable land | B7 | Vegetables | B715 | Cowpea |
| B | Arable land | B7 | Vegetables | B716 | Broccoli |
| B | Arable land | B7 | Vegetables | B717 | Broad mustard leaf |
| B | Arable land | B7 | Vegetables | B718 | Radish |
| B | Arable land | B7 | Vegetables | B719 | Carrot |
| B | Arable land | B7 | Vegetables | B720 | Other vegetables |
| B | Arable land | B8 | Temporary meadow and fodder crops | B801 | Temporary, artificial pastures |
| B | Arable land | B8 | Temporary meadow and fodder crops | B802 | Fodder grass |
| B | Arable land | B9 | Fallow land | B901 | Temporary Fallow |
| C | Permenant crops | C1 | Citrus trees |  |  |
| C | Permenant crops | C1 | Citrus trees | C101 | Orange |
| C | Permenant crops | C1 | Citrus trees | C102 | Junar |
| C | Permenant crops | C1 | Citrus trees | C103 | Lemon |
| C | Permenant crops | C1 | Citrus trees | C104 | Lime |
| C | Permenant crops | C1 | Citrus trees | C105 | Sweet orange |
| C | Permenant crops | C1 | Citrus trees | C106 | Other citrus |
| C | Permenant crops | C2 | Fruit trees and berries | C201 | Mango |
| C | Permenant crops | C2 | Fruit trees and berries | C202 | Banana |
| C | Permenant crops | C2 | Fruit trees and berries | C203 | Guava |
| C | Permenant crops | C2 | Fruit trees and berries | C204 | Jackfruit |
| C | Permenant crops | C2 | Fruit trees and berries | C205 | Pineapple |
| C | Permenant crops | C2 | Fruit trees and berries | C206 | Lychee |
| C | Permenant crops | C2 | Fruit trees and berries | C207 | Apple |
| C | Permenant crops | C2 | Fruit trees and berries | C208 | Pear |
| C | Permenant crops | C2 | Fruit trees and berries | C209 | Peach |
| C | Permenant crops | C2 | Fruit trees and berries | C210 | Papaya |
| C | Permenant crops | C2 | Fruit trees and berries | C211 | Pomegranate |
| C | Permenant crops | C2 | Fruit trees and berries | C212 | Coconut |
| C | Permenant crops | C2 | Fruit trees and berries | C213 | Wallnut |
| C | Permenant crops | C2 | Fruit trees and berries | C214 | Beetle nut |
| C | Permenant crops | C2 | Fruit trees and berries | C215 | Other fruits trees, berries |
| C | Permenant crops | C3 | Other permanent crops | C301 | Tea |
| C | Permenant crops | C3 | Other permanent crops | C302 | Coffee |
| C | Permenant crops | C3 | Other permanent crops | C303 | Alainch |
| C | Permenant crops | C3 | Other permanent crops | C304 | Amriso |
| C | Permenant crops | C3 | Other permanent crops | C305 | Thatch |
| C | Permenant crops | C3 | Other permanent crops | C306 | Fodder tree |
| C | Permenant crops | C3 | Other permanent crops | C307 | Multi-year fodder |
| C | Permenant crops | C3 | Other permanent crops | C308 | Bamboo |
| C | Permenant crops | C3 | Other permanent crops | C309 | Other permanent crops |
| C | Permenant crops | C4 | Nurseries | C401 | Nurseries |
| O | Non-agricultural | A | Artificial land | A11 | Buildings |
| O | Non-agricultural | A | Artificial land | A12 | Greenhouses |
| O | Non-agricultural | A | Artificial land | A21 | Non built-up area features |
| O | Non-agricultural | A | Artificial land | A22 | Non built-up linear features |
| O | Non-agricultural | D | Woodland | D10 | Forest |
| O | Non-agricultural | D | Woodland | D20 | Other wooded area |
| O | Non-agricultural | D | Woodland | D30 | Timber plantations |
| O | Non-agricultural | E | Shrubland | E01 | Shrubland with sparse tree cover |
| O | Non-agricultural | E | Shrubland | E02 | Shrubland without tree cover |
| O | Non-agricultural | F | Permanent Grassland | F01 | Permanent grassland with sparse tree/shrub cover |
| O | Non-agricultural | F | Permanent Grassland | F02 | Permanent grassland without tree/shrub cover |
| O | Non-agricultural | G | Bare Land | G00 | Bare land |
| O | Non-agricultural | H | Water and Wetland | H01 | Inland water bodies |
| O | Non-agricultural | H | Water and Wetland | H02 | Inland running water |
| O | Non-agricultural | H | Water and Wetland | H03 | Wetland |
| O | Non-agricultural | H | Water and Wetland | H04 | Glaciers, permanent snow |