**CHANGES TO CRF TABLES**

**General changes:** In addition to the specific changes listed below, these files also contain the following editorial changes:

1. Updated Ag/LULUCF references to the NIR outline.
2. Ensuring that full footnotes are visible.
3. Updated shading in the cross-sector tables to match the underlying background tables.
4. Added an “other-please specify” to all dropdown boxes.

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| **Sector** | **Table** | **Change** |
| **Energy** | 1s1 | No changes |
| 1s2 | * Cell for N2O emissions from Oil under 1.B.2 (Oil and natural gas and other emissions from energy production) shaded green |
| 1.A(a)s1 | * Electricity generation, Combined heat and power generation and Heat Plants included as dropdown list under 1.A.1 (Public electricity and heat production * Manufacture of solid fuels, Oil and gas extraction and Other energy industries included as dropdown list under 1.A.1.c (Manufacture of solid fuels and other energy industries) |
| 1.A(a)s2 | * 1.A.2.g.vii renamed to Off-road vehicles and other machinery 🡪 fuel types do not include solid fuels and peat * 1.A.2.g.viii Other (please specify) added |
| 1.A(a)s3 | No changes |
| 1.A(a)s4 | * Off-road vehicles and other machinery will be used in the tables instead of mobile combustion   *Pending agreement on footnote 11 related to urea* |
| 1.A(b) | * Shading of cell for Production of waste (non-biomass fraction) changed to white |
| 1.A(c) | No changes |
| 1.A(d) | No changes |
| 1.B.1 | * Footnote 5 revised |
| 1.B.2 | * N2O IEFs for 1B.2.c (Venting and Flaring) and Venting shaded grey * Footnotes 4 and 8 added * Dropdown list under 1.B.2.d Other (please specify) deleted |
| 1.C | * Column IEF for 1. Transport of CO2 and 2. Injection and storage shaded orange |
| 1.D | No changes |
| **Industrial processes and product use** | 2(I)s1 | No changes |
| 2(I)s2 | * HFC and NF3 columns for 2.G.2 (SF6 and PFCs from other product use) shaded grey |
| 2(I).A-Hs1 | *Pending agreement on footnote 5 related to urea* |
| 2(I).A-Hs2 | * 3. Other added in the dropdown list under H. Other |
| 2(II) | * Title of table revised to add NF3 * Word “listed” deleted from name of gases Unspecified mix of HFCs and Unspecified mix of PFCs   *Pending agreement on inclusion of SF5CF3* |
| 2(II)B-Hs1 | No changes |
| 2(II)B-Hs2 | No changes |
| **Agriculture** | 3s1 | * Fox and raccoon / Mink and polecat deleted from Other livestock dropdown lists under 3.A (Enteric fermentation) and 3.B (Manure management) * Shading of cells for NMVOC emissions for all animal types in 3.B (Manure management) changed to white |
| 3s2 | * CO2 emissions from 3.E Prescribed burning of savannas shaded grey |
| 3.A | * Other (please specify) added under 2. Sheep, 3. Swine and 4. Other livestock * Fox and raccoon / Mink and polecat deleted from 4. Other livestock dropdown list * Rabbit, reindeer, ostrich, fur-bearing animals and other included under Other (please specify) in 4. Other livestock * Footnote 5 added |
| 3.B(a) | * Other (please specify) added under 2. Sheep, 3. Swine and 4. Other livestock * Fox and raccoon / Mink and polecat deleted from 4. Other livestock dropdown list * Rabbit, reindeer, ostrich, fur-bearing animals and other included under Other (please specify) in 4. Other livestock * Footnote 5 added * Additional information box: Renamed to Manure Management Systems * Types of manure management systems added to be consistent with table 3.B(b) |
| 3.B(b) | * Other (please specify) added under 2. Sheep, 3. Swine and 4. Other livestock * Fox and raccoon / Mink and polecat deleted from 4. Other livestock dropdown list * Rabbit, reindeer, ostrich, fur-bearing animals and other included under Other (please specify) in 4. Other livestock * Footnote 6 added * Column Typical animal mass renamed (to include (average) * Title of column AWMS renamed to Manure Management System (MMS) * Last column under Nitrogen excretion per MMS renamed to Other (please specify) and added footnote 3 * Total N handled per AWMS renamed to MMS * Last row renamed to Direct N2O emissions per MMS * Row Direct N2O emissions per MMS: (1) activity data and other related information columns shaded white (2) IEF columns shaded orange * Reference to AWMS in second bullet of document box modified to MMS |
| 3.C | No changes |
| 3.D | * NH3 from Description of Atmospheric deposition (3.D.b.1) deleted * Footnote 4 modified to address indirect emissions of NH3 and NOx from field burning of agricultural residues and prescribed burning of savanna (both under forest land and grassland) in this table |
| 3.E | * Section on Additional information deleted |
| 3.F | * Second column under Activity data and other related information changed to Biomass available |
| 3.G-H | *Pending agreement on reporting of emissions from urea application* |
| **LULUCF** | *All tables* | Corrected references that LULUCF sector is chapter 6 of the NIR. |
|  | 4 | * Revised footnote 3. * Added footnote 4 for “other land”.   ***Outstanding*** *issue related to HWP* |
|  | 4.1 | * Removed definitions of the land use categories in the footnote and replaced with a reference to Volume 4 of the 2006 IPCC GL. * Added an additional column and row titled “total unmanaged land”, along with the corresponding footnote 3. * Removed “managed” from cropland |
|  | 4.A | * Removed footnote on the AD column “area of organic soil” which was referring to total land area |
|  | 4.B. | * Removed footnote on the AD column “area of organic soil” which was referring to total land area |
|  | 4.C. | * Removed footnote on the AD column “area of organic soil” which was referring to total land area. * Removed footnote to the column “carbon stock change in living biomass” that stated that this column only includes changes in perennial woody biomass |
|  | 4.D. | ***Outstanding issues***   * *Discussion about whether to try and address now or wait until Warsaw.* * *Will additional time be needed prior to Warsaw to allow participants to discuss supplementary IPCC guidelines on wetlands.* * *An issue also was raised on the floor about whether Parties should have submissions to express their views.* |
|  | 4.E. | * Removed footnote to the column “carbon stock change in living biomass” that stated that this column only includes changes in perennial woody biomass * Removed original footnote 8, related to “land converted to settlements” which stated that a Party may report aggregated estimates for all land conversions when data are not available to report them separately. |
|  | 4,F | * Shaded the net change column orange in “changes in carbon stock”. |
|  | 4(I) | * Deleted the column titled “description” and included the text in footnotes 6 and 7.   ***Outstanding issues:***   * Placeholder for wetlands. |
|  | 4(II) | ***Outstanding issues***   * Waiting for wetlands supplementary guidance. * CH4 and N2O emissions from this table overlap with cells in Table 4D. * Inconsistency between current footnotes 5 and 6, as footnote 5 indicates to report non-CO2 in the remaining category and footnote 6 indicates to report in the conversion category. |
|  | 4(III) | * Modified footnote 1 to table to indicate that there is no methodology for immobilization using tier 1, however these emissions can be reported using tier 3 * Added the category “other land converted to…”to each land use category. * Removed 4(H), as one cannot imagine other land types.   ***Outstanding issues***   * Clarify title regarding what has to be reported in the activity data column. |
|  | 4 (IV) | * Modified footnote 1 * Added a new footnote 2 referencing to equations in the 2006 IPCC Guidelines. * Updated footnote 4 (previous footnote 3) to clarify that one would report deposition and leaching and runoff of the following N inputs in land use categories **other than cropland and grassland**, and N mineralization is reported in all land use categories, **except cropland remaining cropland.** |
|  | 4(V) | * No additional changes (just cross references in documentation box) |
|  | 4.G.1 | * Added an “other ‘please specify’” to each approach. * Several modifications to footnotes:   a. Assigned names to each approach (atmospheric flow approach, production approach, stock change approach). Footnotes: 2,11, 13  b. Included references to the appropriate equations in the 2006 IPCC GL (footnotes: 2, 3, 11, 13, 14, 15 and deleted the descriptive text  c. Deleted footnote under “other solid wood products” and “paper and paperboard” which stated that “subcategories such as land area classification may be used”.  d. Added a footnote to the column “net emissions/removals’ to indicate that emissions are positive and removals are negative. |
| **Waste** | 5 | * Footnote 2 added to Memo items |
| 5.A | No changes |
| 5.B | * Annual waste renamed to Municipal solid waste * Footnote 4 added to Other (please specify) |
| 5.C | * Format of table changed * Annual waste renamed to Municipal solid waste * Shading of CH4 and N2O IEF for Fossil liquid waste changed to orange * Shading of CH4 and N2O emissions for Fossil liquid waste changed to white * Hazardous waste added under Waste incineration - Biogenic |
| 5.D | No changes |
| **Cross-sectoral** | Summary1.As1 | No changes |
|  | Summary1.As2 | *Pending decision on urea* |
|  | Summary1.As3 | * Line between Indirect N2O and Indirect CO2 added |
|  | Summary2 | * Footnote 3 reference deleted * Clarified language of totals (at the bottom of the table), and added footnote 3   *Pending decision on urea* |
|  | Summary3s1 | * All white cells shaded blue |
|  | Summary3s2 | * All white cells shaded blue   *Pending decision on urea* |
|  | Table 6 | * Footnote to CO2 and N2O (footnotes 1 and 2) added * Footnote 3 added * NH3 emissions from agriculture and LULUCF shaded grey * Indirect N2O emissions from agriculture and LULUCF shaded white |
|  | Table 7 | * Second note changed to footnote * All cells shaded blue |
|  | Table 8s1 | No changes |
|  | Table 8s2 | *Pending decision on urea* |
|  | Table 8s3 | * Grey shading for 5.C Incineration and open burning of waste removed for CO2 |
|  | Table 8s4 | No changes |
|  | Table 9 | * Footnote modified to remove reference to IPCC source/sink structure |
|  | Table 10s1 | * Clarified language of totals (at the bottom of the table), and added footnote 3   *Pending decision on urea* |
|  | Table 10s2 | * Clarified language of totals (at the bottom of the table), and added footnote 3 * Structure of table changed (totals moved to bottom) |
|  | Table 10s3 | * Footnote 3 added   *Pending decision on urea* |
|  | Table 10s4 | * Footnote 3 added   *Pending decision on urea* |
|  | Table 10s5 | * Names of Unspecified mix of HFCs and Unspecified mix of PFCs changed (‘listed’ removed) * Removed SF5CF3 from table because not included in national totals.   *Pending decision on SF5CF3* |
|  | Table 10s6 | No changes |