New PM$_{10}$ EF for Handling of less drift sensitive agricultural products

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- Current situation

- Study to determine a PM$_{10}$ EF for handling of **less drift sensitive** products
Current situation

* Although agricultural products can be divided into **drift-sensitive** (e.g. flours) and **less drift-sensitive** products (e.g. soy beans) there is only 1 general EF included in the Guidebook at this moment

* This EF of 24 gr/ton product can be found in:
  2.H.2, Food and beverages of the 2016 Guidebook

• Derived from a study by Vrins (1999).
Study to determine a PM$_{10}$ EF for Handling of less drift sensitive products - 1

- The aim of this study was to determine a PM$_{10}$ EF for less drift sensitive products.

- Location measurement campaign: IGMA, a bulk terminal in Amsterdam’s harbour, is specialised in the transhipment of agricultural products, coal and minerals.
Study to determine a PM$_{10}$ EF for Handling of less drift sensitive products - 2

- Carried out in close consultation with the **competent authorities** and a **Commission** which is responsible for including new PM$_{10}$ EF used in the National system.

- Involved products: mainly soy products.
Study to determine a PM$_{10}$ EF for Handling of less drift sensitive products - 3

- Determination is based on:
  - a measured period of 74 days;
  - Number of ships unloaded and measured: 12.
  - Observations took place during 312 hours in **time intervals** of 10 minutes:
    This gives a total of 1870 observations and an EF determined for every **10 minutes**

*(In the Vrins (1999) study, the measured **time interval** was at least **one hour**).*
Study to determine a PM$_{10}$ EF for Handling of less drift sensitive products - 4

- Finally this resulted in an average EF of 12 gr/ton product

- So, from now on there are 2 EF which can be used to calculate PM10 emissions from Handling of agricultural products:
  * 24 gr/ton product for drift sensitive products
  * 12 gr/ton product for less drift sensitive products
Many thanks for your attention

Are there any Questions?

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