

On Jan 10, 2013, at 5:32 PM, Tim Rule <trule@mde.state.md.us> wrote:

Hello, Coastal Bays folks et al. -

We have arrived at atmospheric loading rates for N and P for the TMDL in the following manner:

NADP data (annual atmospheric loads) were downloaded from the MD-18 site, Assateague Island, for nitrogen for the years of 2001 - 2004, the years used in the TMDL modeling period. Inorganic N (NH₄ and NO₃ as N) loads ranged from 3.9 - 4.8 kg/ha/yr. The average is 4.17 kg/ha/yr, or 3.71 lb/ac/yr. Per EPA/CBP/CMAQ-based methodology, wet deposition is assumed to be equal to dry deposition, so the numbers are doubled to 8.34 kg/ha/yr or 7.42 lb/ac/yr, respectively. Also in keeping with the EPA/CBP work, the 20:1 ratio of N to P was used. This results in atmospheric deposition of P of 0.417 kg/ha/yr or 0.371 lb/ac/yr.

In summary, here are the loading coefficients we intend to use for atmospheric deposition, wet and dry:

| | TN | TP |
|----------|-------|-------|
| kg/ha/yr | 8.340 | 0.417 |
| lb/ac/yr | 7.423 | 0.371 |

Roman - please pass this along to anyone I've missed. If there is any issue that needs to be brought to our attention, please do so by COB Friday, Jan. 10.

Thanks very much,
Tim

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