**Variable Explanations in Soil Inorganic Nitrogen Daily Output File (.OSN)**

DOY: Day of the Year

DAS: Days after start of simulation

NAPC: Cumulative inorganic N applied, kg N/ha

NI#M: Number of N applications

NLCC: Cumulative N leached, kg N/ha

NIAD: Inorganic N in soil (Total soil NO3+NH4), kg N/ha

NITD: Total soil NO3, kg N/ha

NHTD: Total soil NH4, kg N/ha

NI1D: NO3 in soil layer 1 (0—5 cm), µg N/g soil

NI2D: NO3 in soil layer 2 (5—15 cm), µg N/g soil

NI3D: NO3 in soil layer 3 (15—20 cm), µg N/g soil

NI4D: NO3 in soil layer 4 (20—35 cm), µg N/g soil

NI5D: NO3 in soil layer 5 (35—50 cm), µg N/g soil

NI6D: NO3 in soil layer 6 (50—75 cm), µg N/g soil

NI7D: NO3 in soil layer 7 (75—100 cm), µg N/g soil

NI8D: NO3 in soil layer 8(100—125 cm), µg N/g soil

NI9D: NO3 in soil layer 9 (125—150 cm), µg N/g soil

NH1D: NH4 in soil layer 1, µg N/g soil

NH2D: NH4 in soil layer 2, µg N/g soil

NH3D: NH4 in soil layer 3, µg N/g soil

NH4D: NH4 in soil layer 4, µg N/g soil

NH5D: NH4 in soil layer 5, µg N/g soil

NH6D: NH4 in soil layer 6, µg N/g soil

NH7D: NH4 in soil layer 7, µg N/g soil

NH8D: NH4 in soil layer 8, µg N/g soil

NH9D: NH4 in soil layer 9, µg N/g soil

NMNC: Cumulative N mineralization, kg N/ha

NITC: Cumulative nitrification, kg N/ha

NDNC: Cumulative denitrification, kg N/ha

NIMC: Cumulative N immobilization, kg N/ha

AMLC: Cumulative ammonia (NH3) volatilization, kg N/ha

NNMNC: Cumulative net N mineralization (miner - immob)

NUCM: Total N uptake during season, kg N/ha