

Summary of data needed for critical load calculations. Data required (mandatory) for calculations of critical load are italicized. The additional parameters (non- mandatory) can be used as checks for the calculations of critical load and deposition index. ‘Other’ indicates an option for collecting any other data that might be available in these categories.

1. Site Description Data*	2. Atmospheric/Climate Data*
<ul style="list-style-type: none"> • <i>Latitude and longitude</i> • <i>Elevation</i> • <i>Polygon file and/or plot radius</i> • Principle investigators • Site name • Size of site • Land-use history • Disturbance history • Political jurisdiction • Publications associated with site 	<ul style="list-style-type: none"> • <i>Deposition</i> <i>(N, S, Ca, Mg, K, Na)</i> • <i>Precipitation volume (long-term)</i> • <i>Mean annual temperature</i> <i>(long term)</i> • <i>Mean annual evapotranspiration</i> • <i>Runoff</i> • Other
3. Soil Data*	4. Tree and Forest data*
<ul style="list-style-type: none"> • <i>Number of soil pits/site</i> • <i>Mineralogy</i> • <i>Soil profile descriptions</i> • <i>Soil depth</i> • <i>Soil texture</i> • <i>Soil bulk density</i> • <i>Parent material</i> • <i>Organic matter percent</i> • <i>Soil series</i> • <i>Extractable nutrients (Ca, Mg, K, Na)</i> • <i>Cation exchange capacity</i> • <i>Base saturation</i> • <i>Volumetric soil moisture</i> • <i>Lysimeter data, DON, DOC</i> • <i>pH</i> • <i>Other</i> 	<ul style="list-style-type: none"> • <i>Stand composition</i> • <i>DBH</i> • <i>Nutrient concentration (N, Ca, Mg, K) by biomass fraction by species</i> • <i>Annual biomass removal rate</i> • <i>Biomass by species</i> • <i>Average height by species</i> • <i>MAI</i> • <i>Volume</i> • <i>Nutrient uptake by species</i> • <i>Nutrient ratios</i> • <i>Other</i>
5. Forest Health Data*	6. Stream Water Data*
<ul style="list-style-type: none"> • <i>Foliage transparency</i> • <i>Crown density</i> • <i>Dieback</i> • <i>Insect damage and disease</i> • <i>Areas of forest decline</i> • <i>Vegetation structure</i> • <i>Other (lichens, ...)</i> 	<ul style="list-style-type: none"> • <i>Size of catchment</i> • <i>Stream water chemistry</i> • <i>Other</i>

*Red indicates data that is absolutely required from the site; green indicates data that are required but in some regions it may be modeled if models are available; blue indicates data that can be calculated or come from (regional) values reported in literature; black indicates extra data that will be helpful in interpreting the results. Data from individual sites is always preferable to modeled or extrapolated data.