

The Dewey I-W Standard:

The Dewey I-W Standard was developed by Frances M. Dewey, PhD, through her work with the UC Davis Viticulture program. Dr. Dewey, recognized for her work in Botrytis, developed this standard in response to industry requests for a more objective measurement of Botrytis infection in grapes or grape juice. For reference to articles and data produced by Dr. Dewey, please visit our website.



- Measures Botrytis levels in wine grape juice on the basis of incidence or weight.
- Incidence (or berry/berry) is derived from a 20 % standard, which combines 20 half-turgid, Botrytis-infected Chardonnay berries with 80 uninfected berries. This juice mix is then diluted further into juice from other uninfected berries to achieve a measurement range.
- Weight (or weight/weight) is obtained by multiplying the incidence level by 0.333, as a half-turgid, Botrytis-infected wine grape berry weighs, on average, one-third that of an uninfected berry.
- The Dewey I-W Standard (curve) is preprogrammed into the EnviroLogix QuickStix Reader for automatic quantification of the results.

The table below illustrates the range of possible results, with each signal intensity code corresponding to a specific % Incidence and % Weight for infected grape juice.

Signal Intensity	% Infection, by Incidence	% Infection, by Weight
<10	< 1.25	< 0.42
10 - 23.5	≥ 1.25 to < 2.50	≥ 0.42 to < 0.83
23.5 - 31.0	≥ 2.50 to < 5.00	≥ 0.83 to < 1.67
31.0 - 42.5	≥ 5.00 to < 10.00	≥ 1.67 to < 3.33
>42.5	≥ 10.00	≥ 3.33

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