Tier I Ground Sprayer Assessment Methodology for low boom height and orchard/airblast scenarios:
(Based on SDTF field trials)

$$D_x = \frac{c}{(1+ax)^b}$$

Curve shape parameters were estimated using least-squares analysis.
parameters:

D_x = Deposition level relative to the nominal application rate
x = downwind distance
a, b, c = curve shape parameters

A high boom model was developed by extending the low boom model.
Ground sprayer assessment methodology for high boom height:

$$D_x = \frac{c}{(1+ax)^b}\left(1 + A * exp\left(-Bx\right)\right)$$

D_x = Deposition level relative to the nominal application rate
x = downwind distance
a, b, c = curve shape parameters
A, B = determined by matching the high boom data with at 25 ft and assuming that high boom deposition is ten percent higher than low boom deposition at 2600 ft