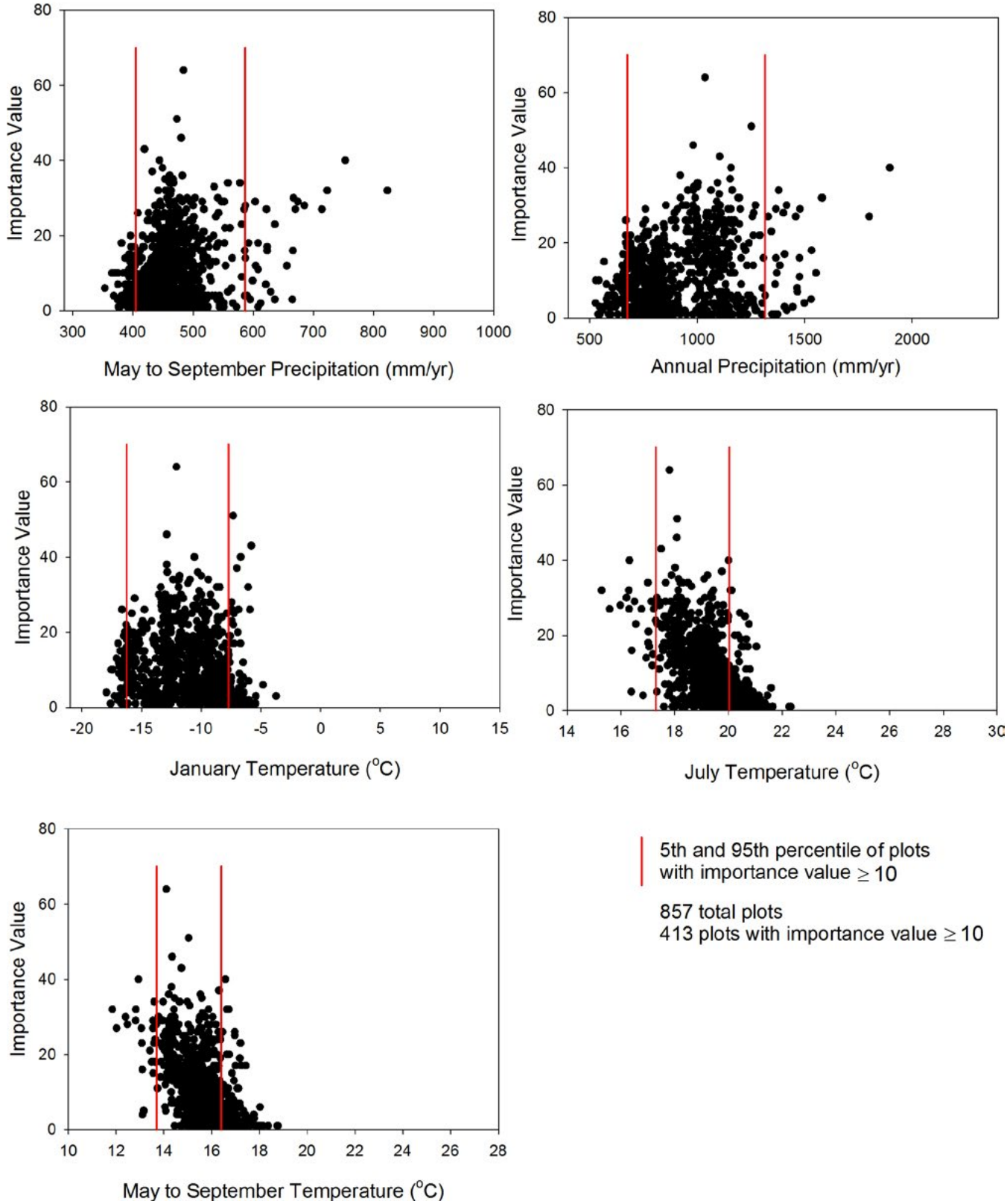
APPENDIX 1

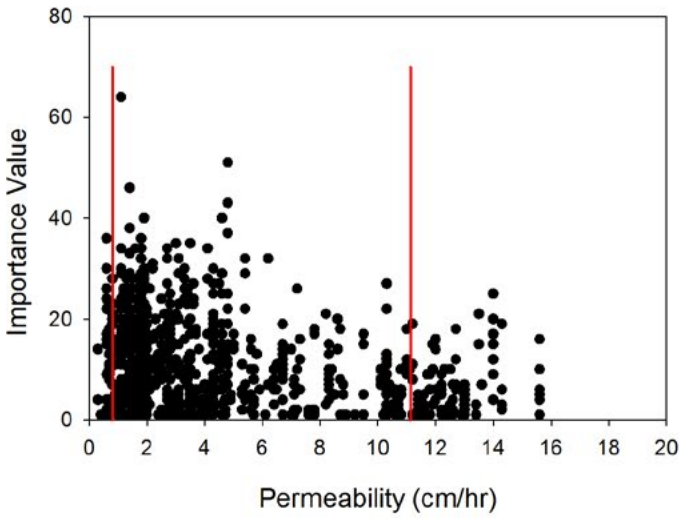
Importance Values Versus Climate and Soil Characteristics for Each Species

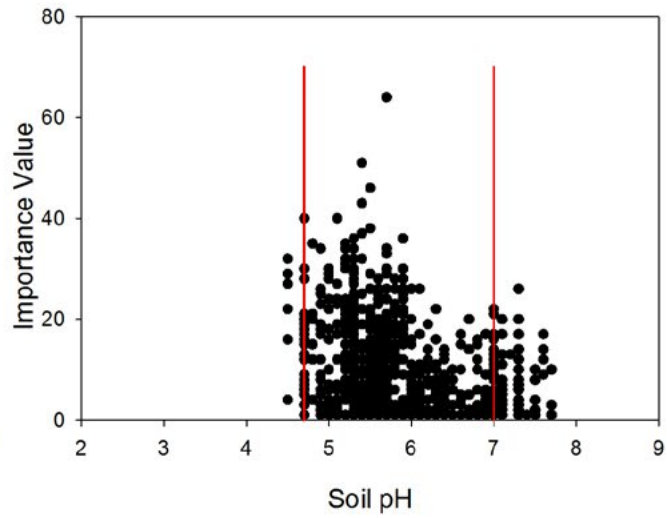
Data from the Climate Change Atlas (U.S. Forest Service, n.d.)

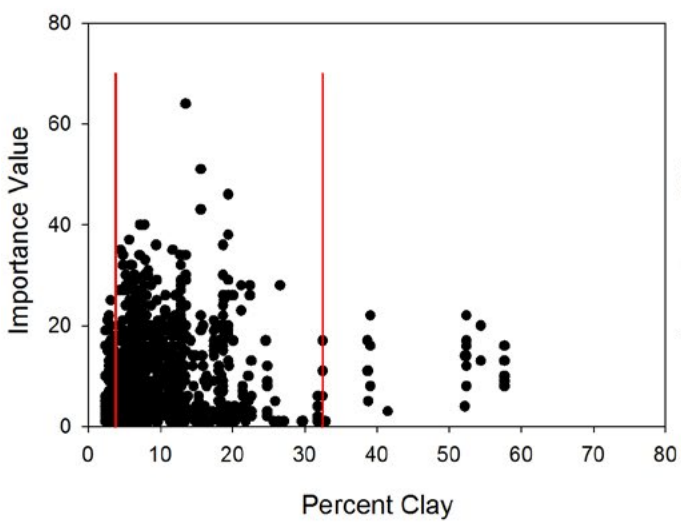
Abies balsamea (balsam fir)
Climate Parameters

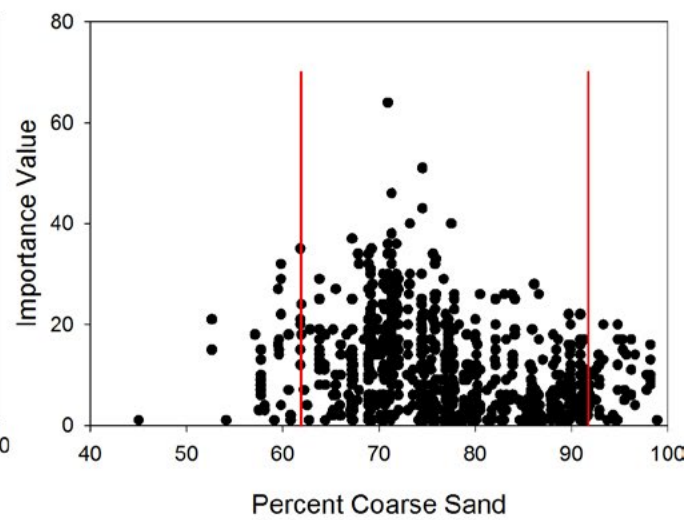


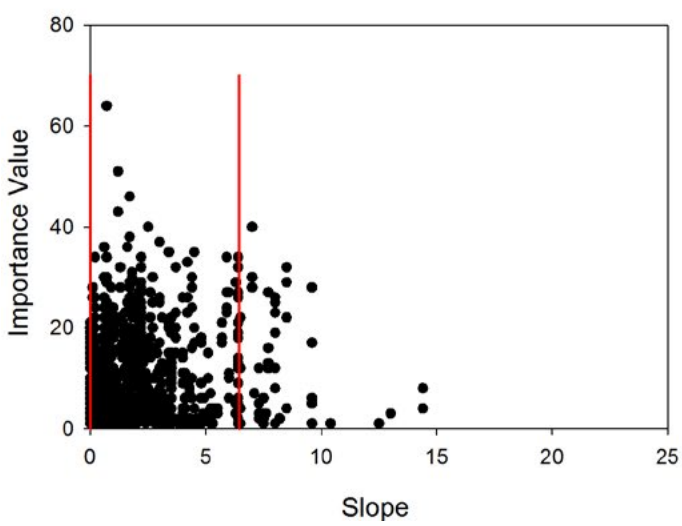
Abies balsamea (balsam fir)
Soil and Topographic Parameters







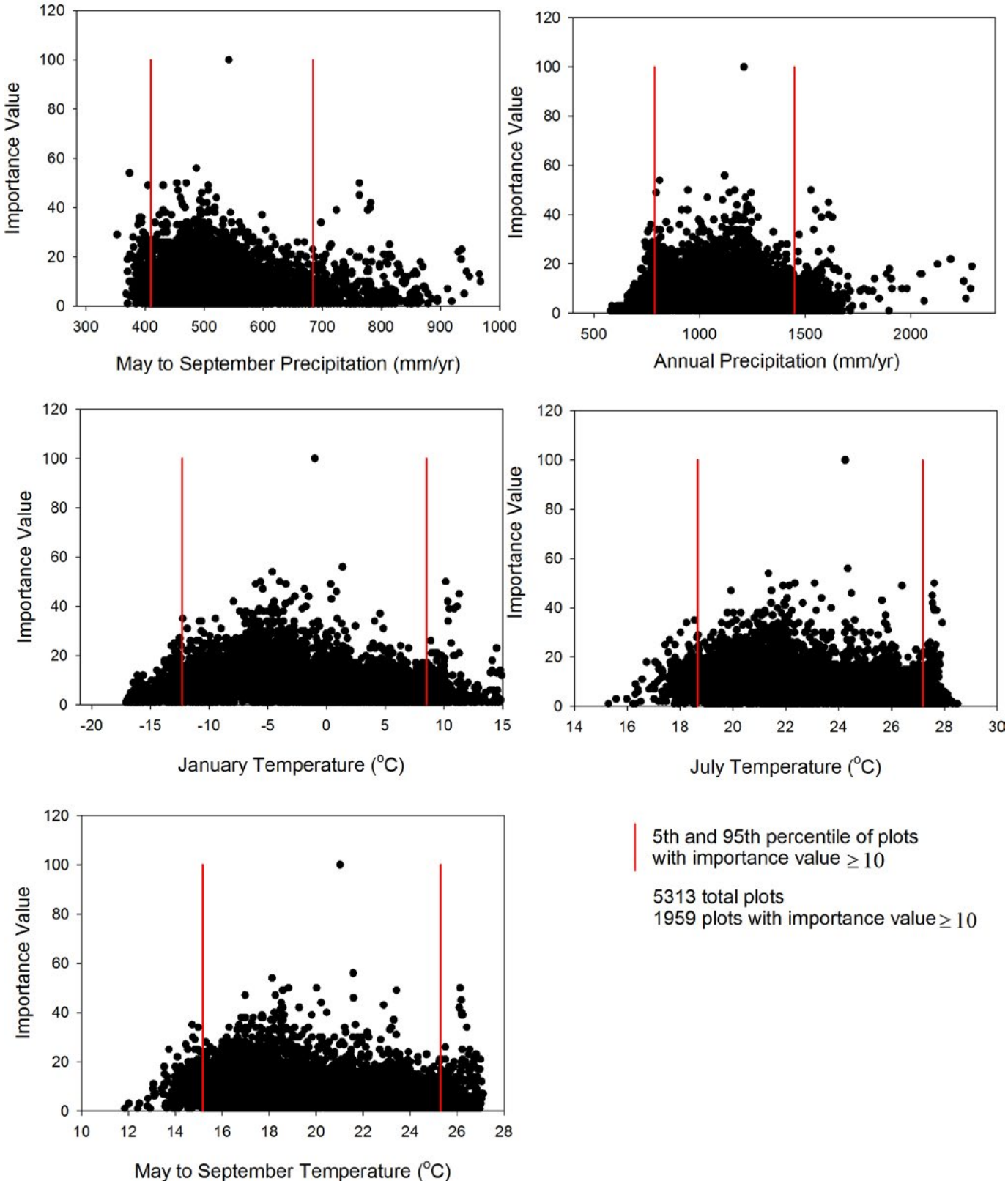




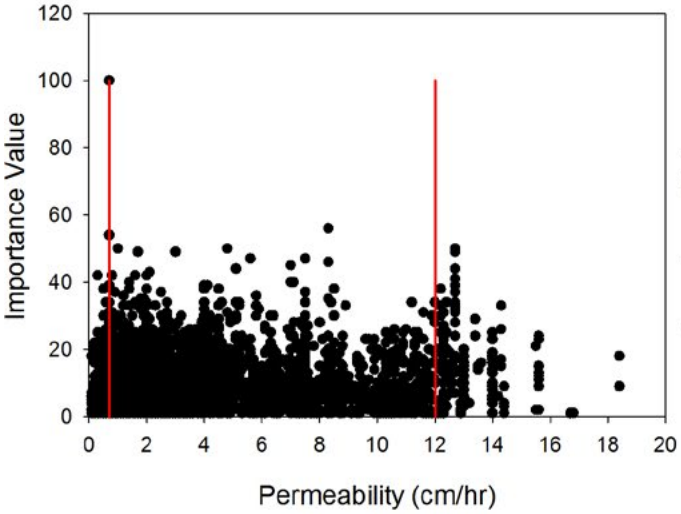
5th and 95th percentile of plots with importance value ≥ 10

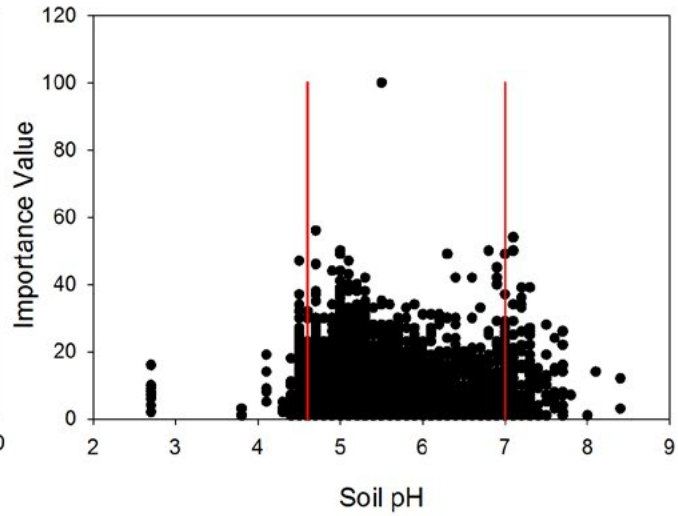
857 total plots
413 plots with importance value ≥ 10

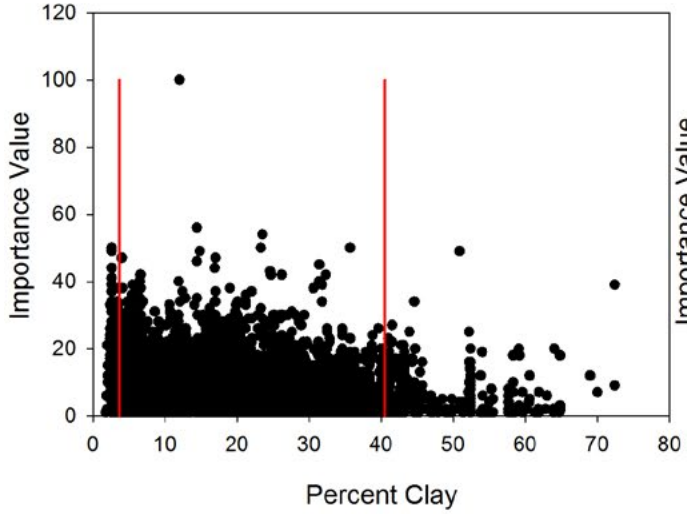
Acer rubrum - red maple - climate parameters

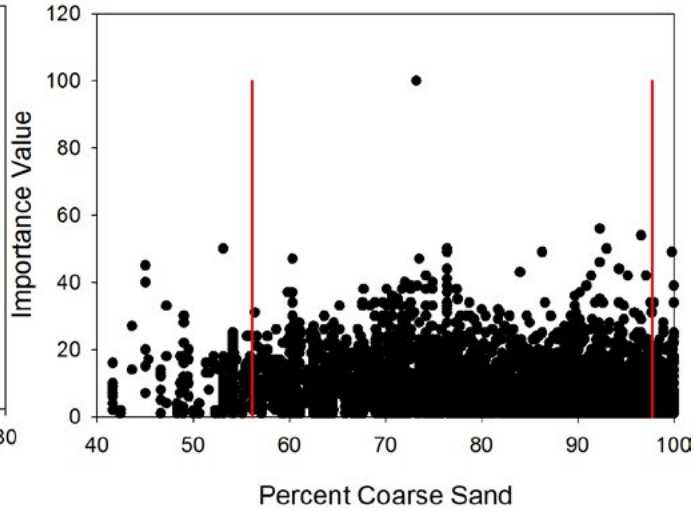


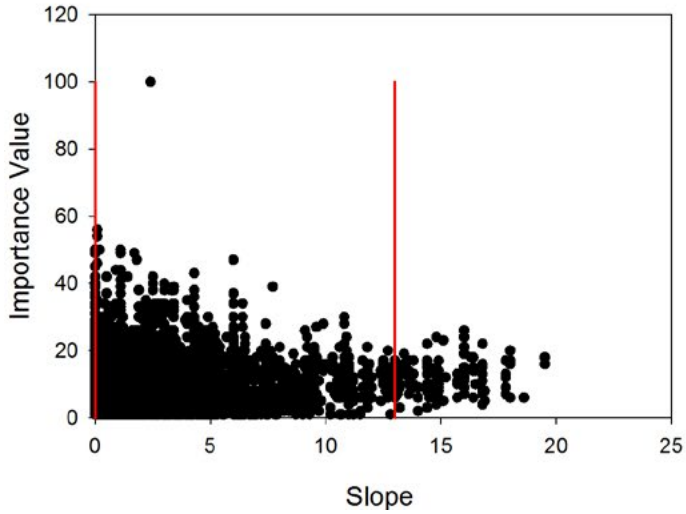
Acer rubrum - red maple - soil and topographic parameters







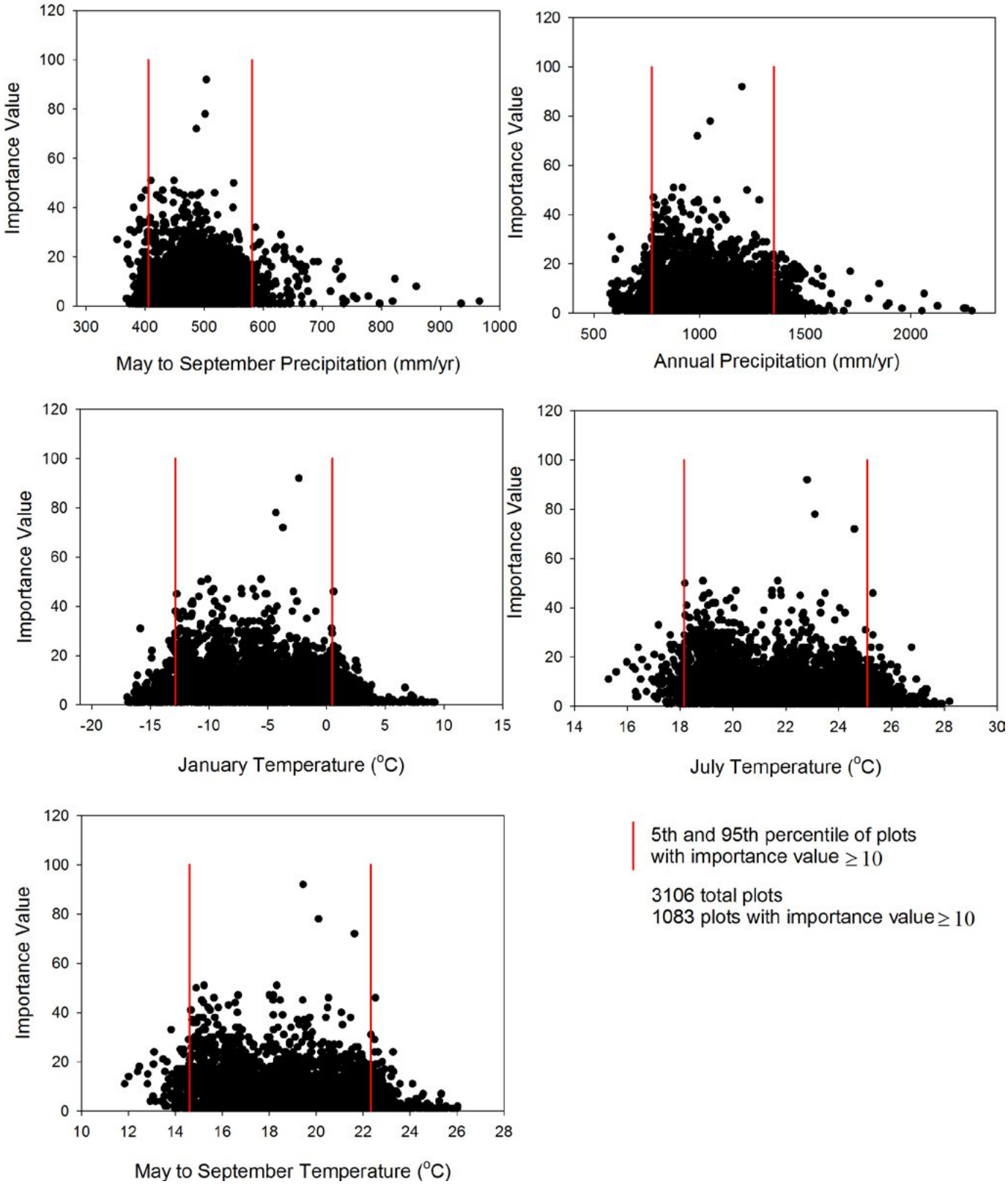




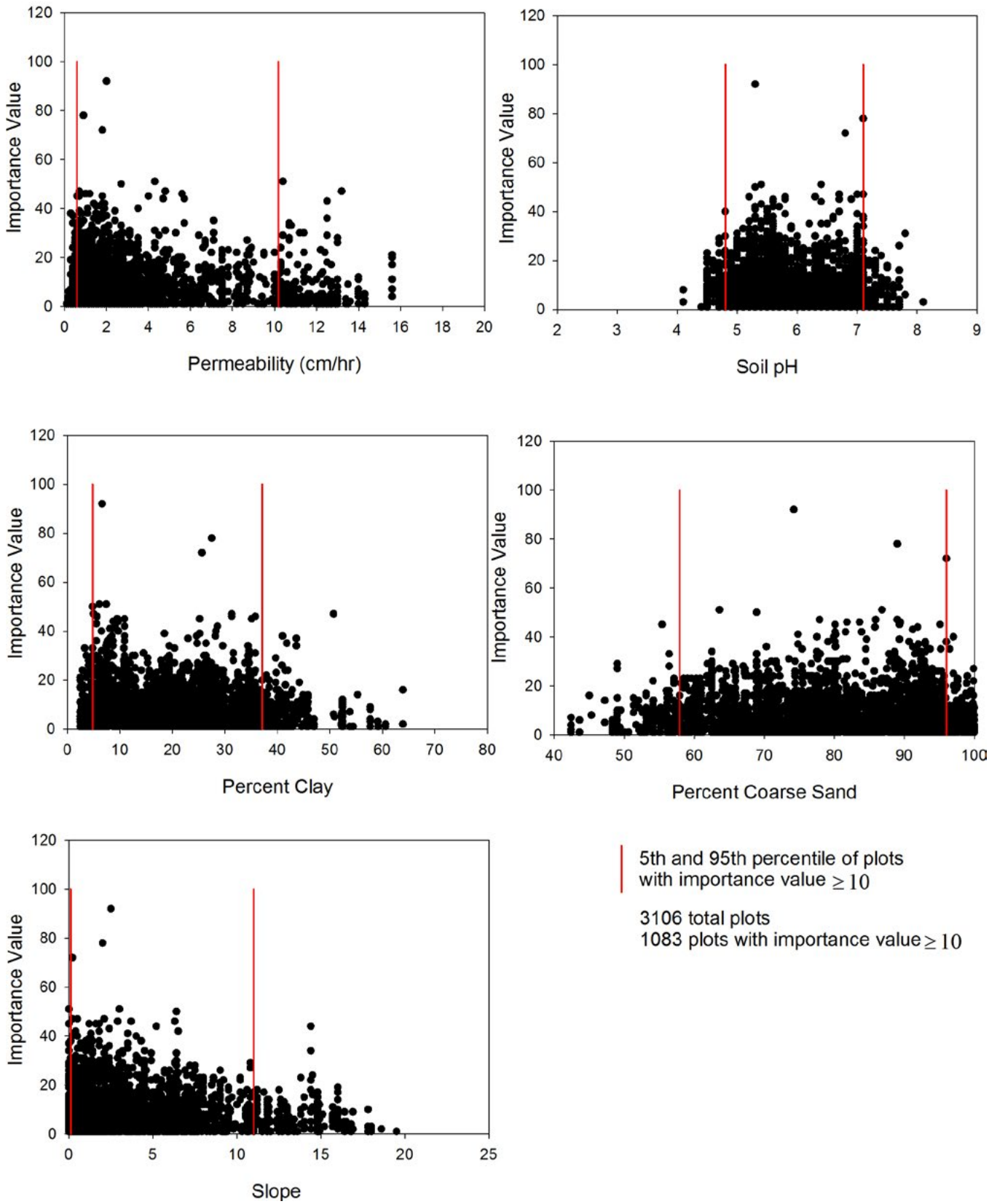
5th and 95th percentile of plots with importance value ≥ 10

5313 total plots
1959 plots with importance value ≥ 10

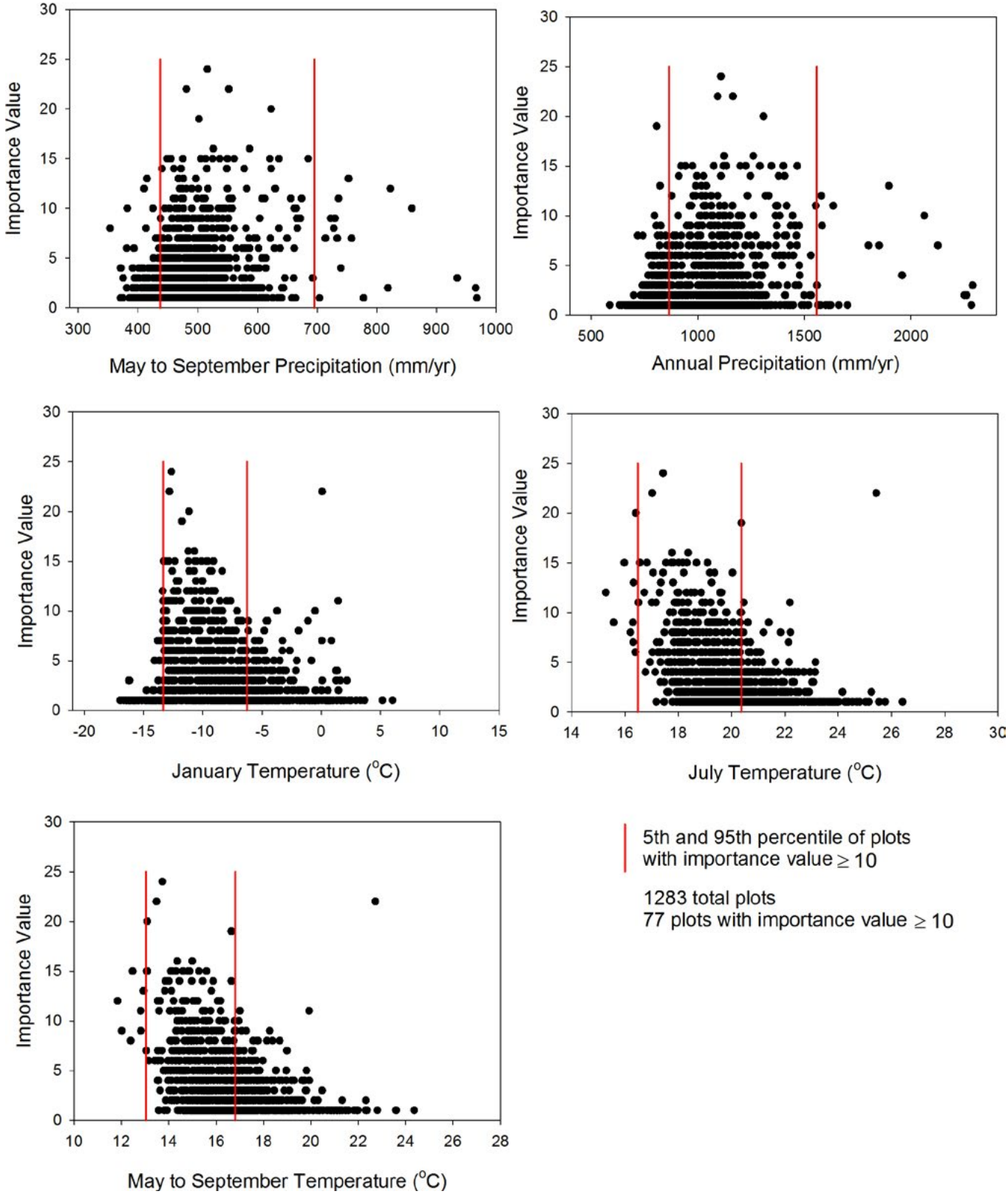
Acer saccharum - sugar maple - climate parameters



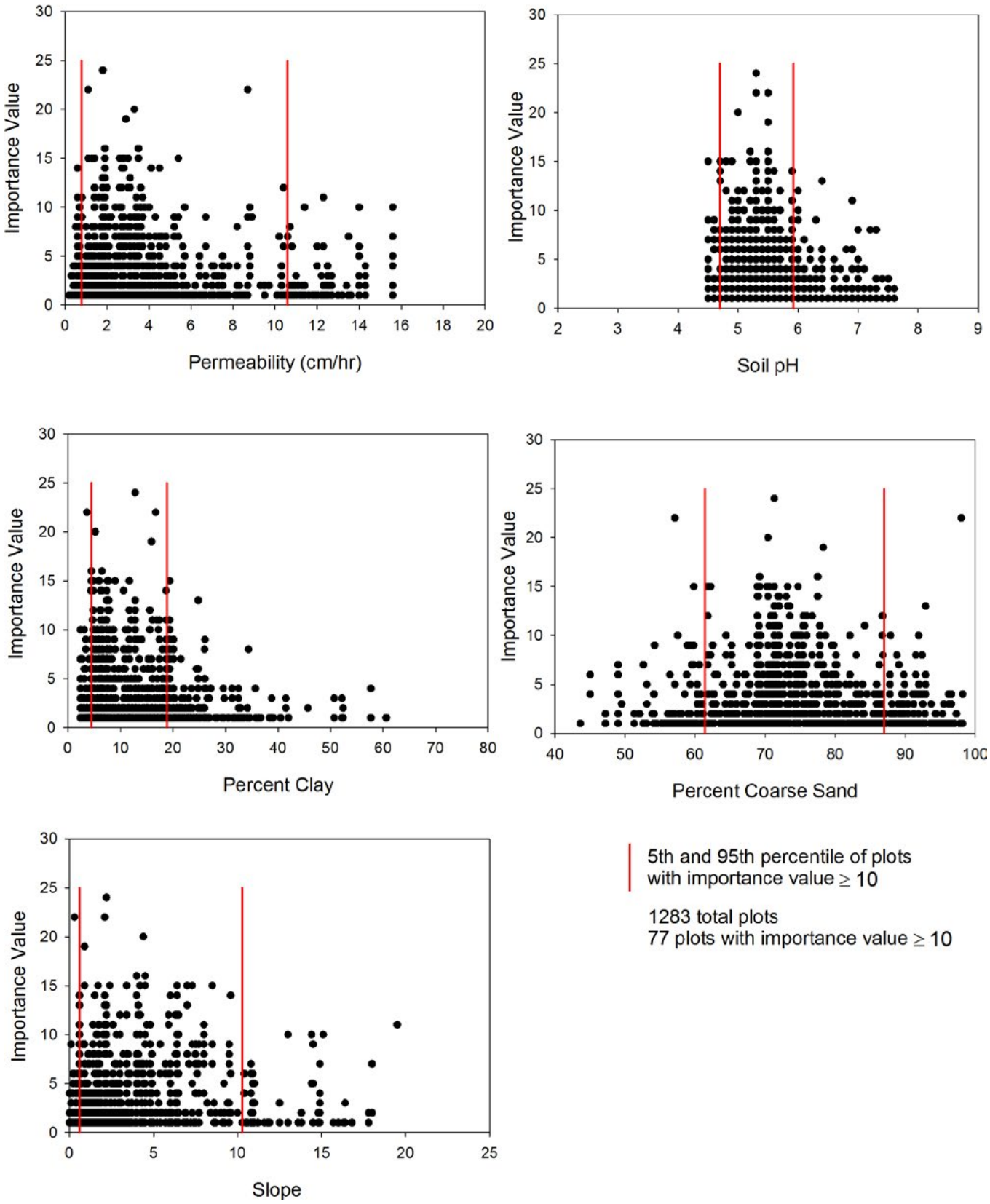
Acer saccharum - sugar maple - soil and topographic parameters



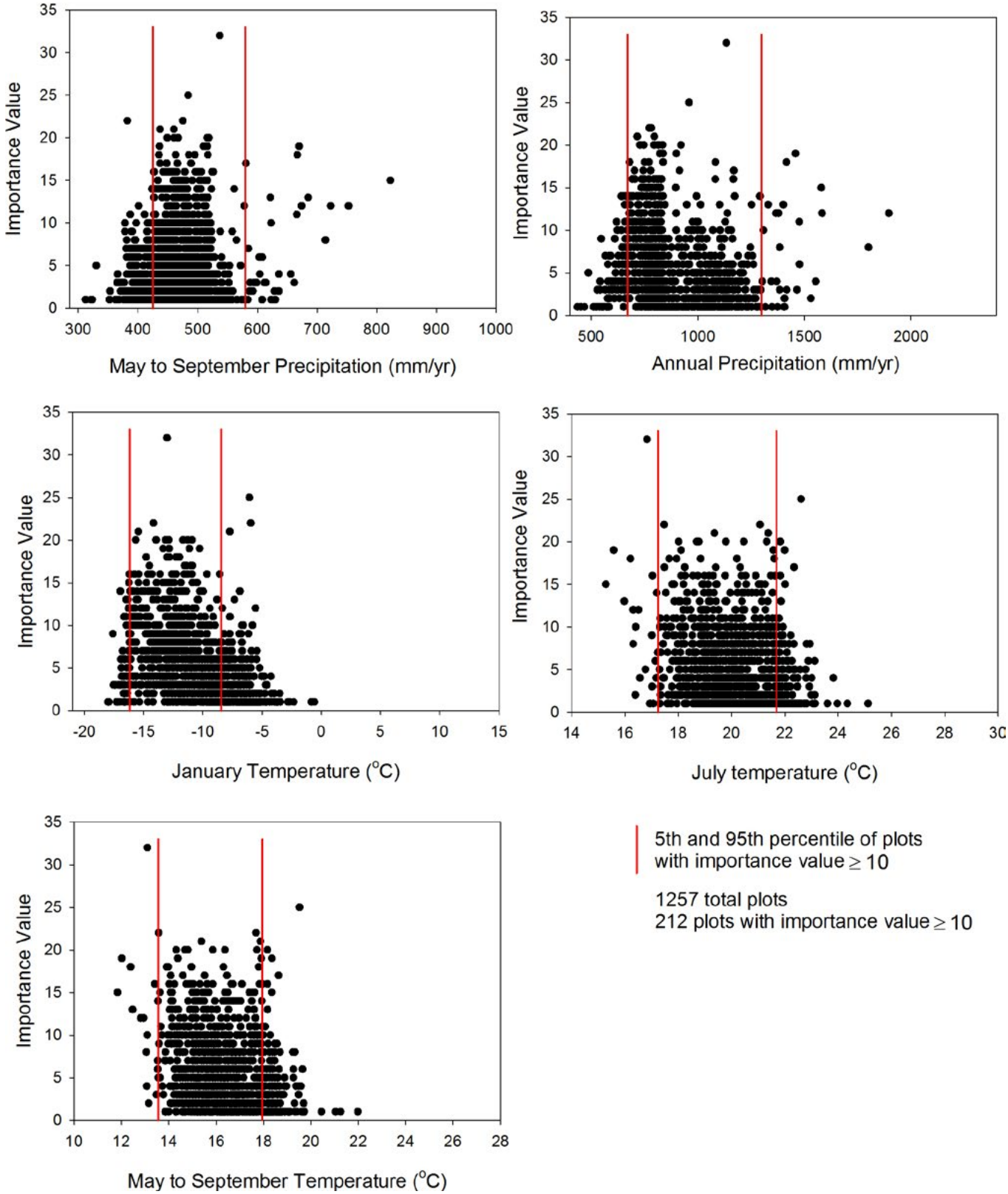
Betula alleghaniensis (yellow birch)
Climate Parameters



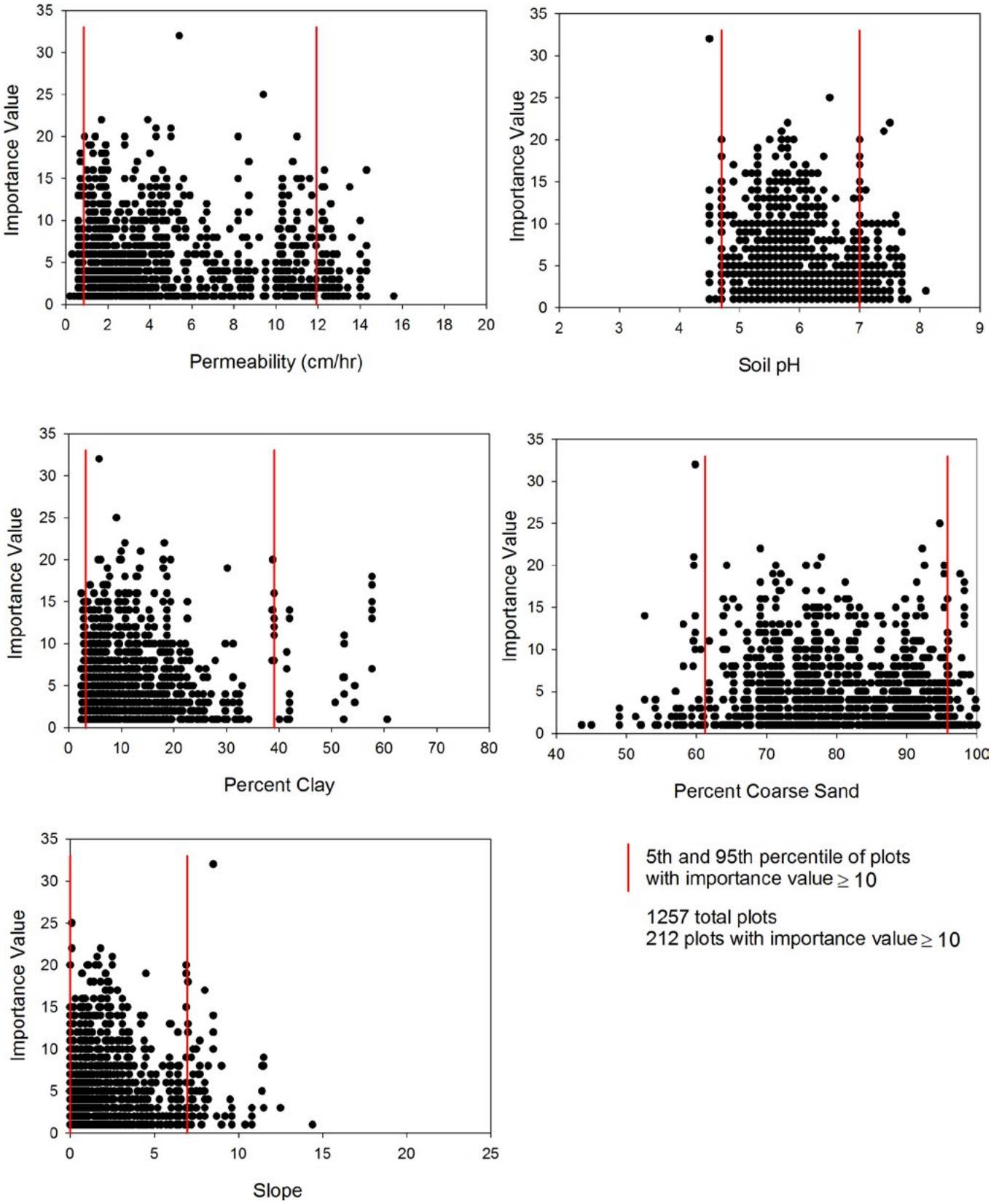
Betula alleghaniensis (yellow birch)
Soil and Topographic Parameters



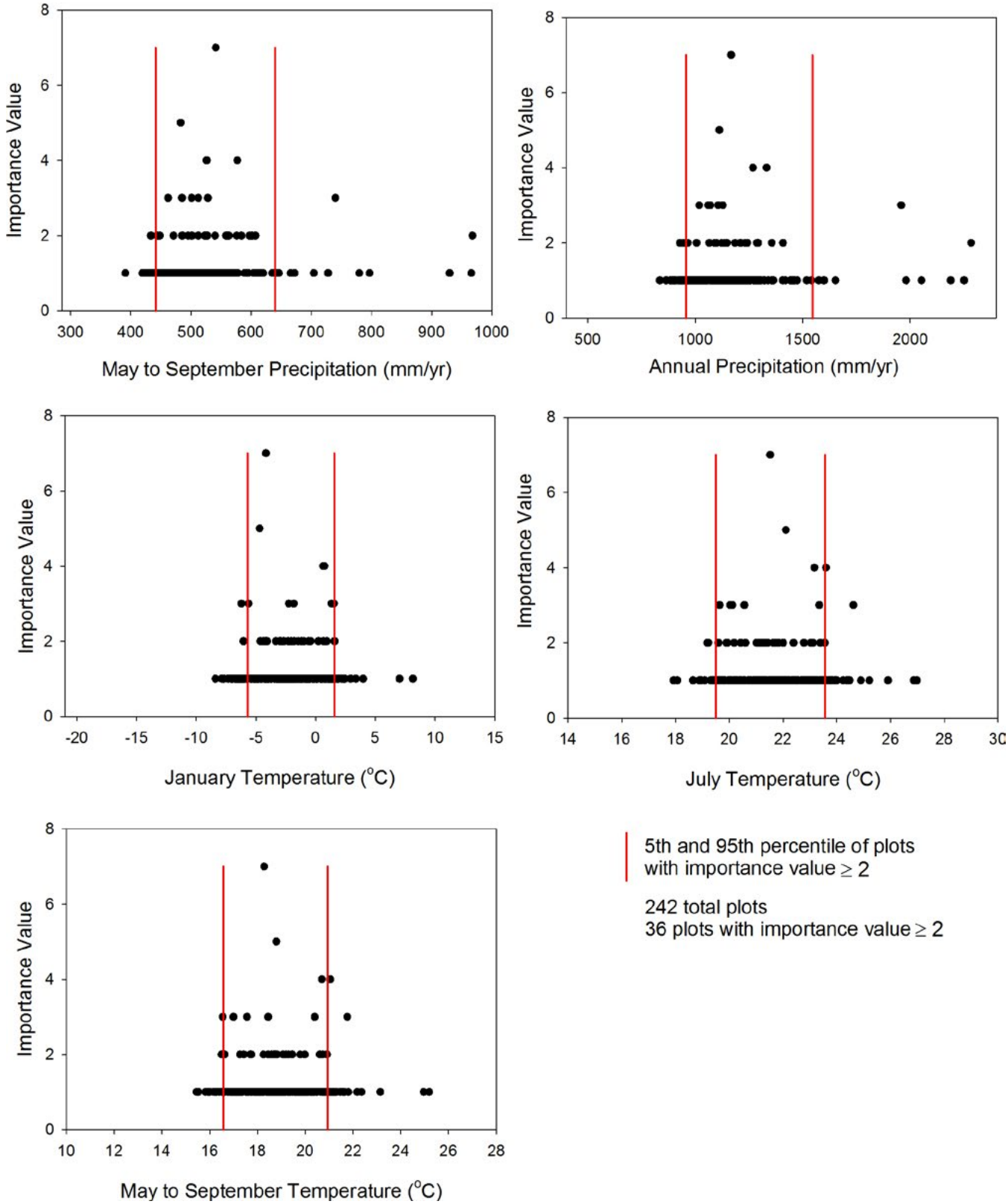
Betula papyrifera (paper birch)
Climate Parameters



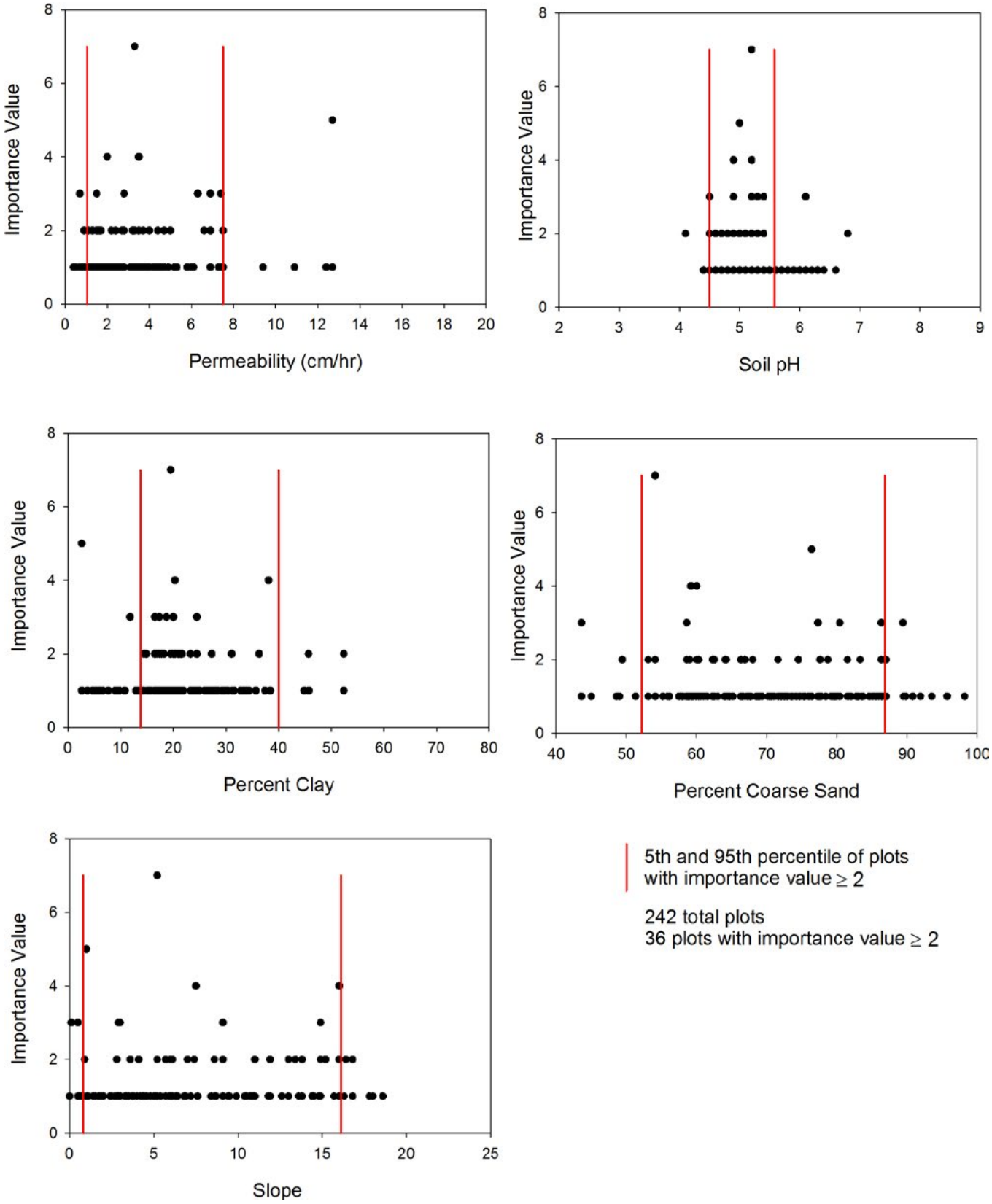
Betula papyrifera (paper birch)
Soil and Topographic Parameters



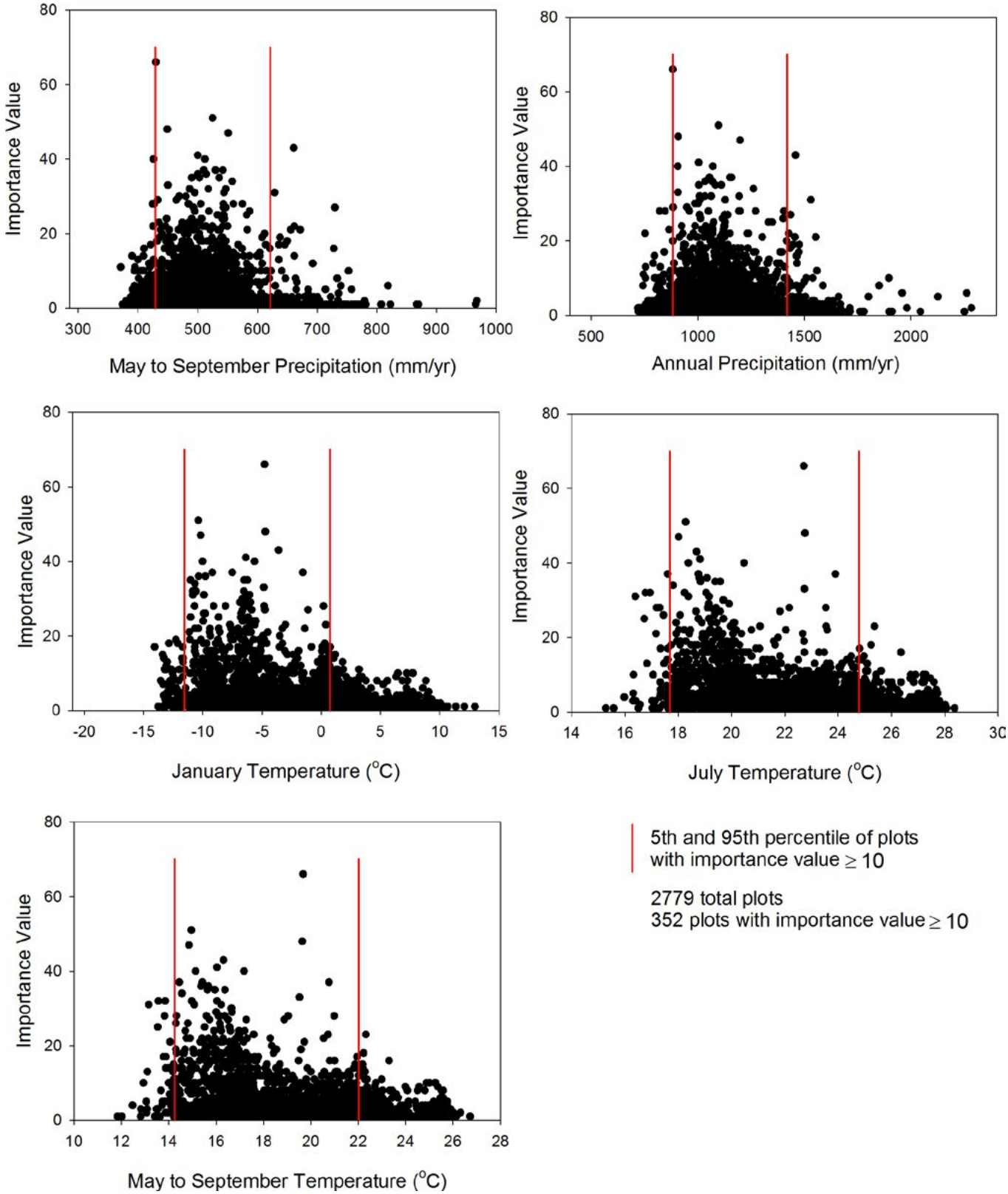
Castanea dentata (American chestnut)
Climate Parameters



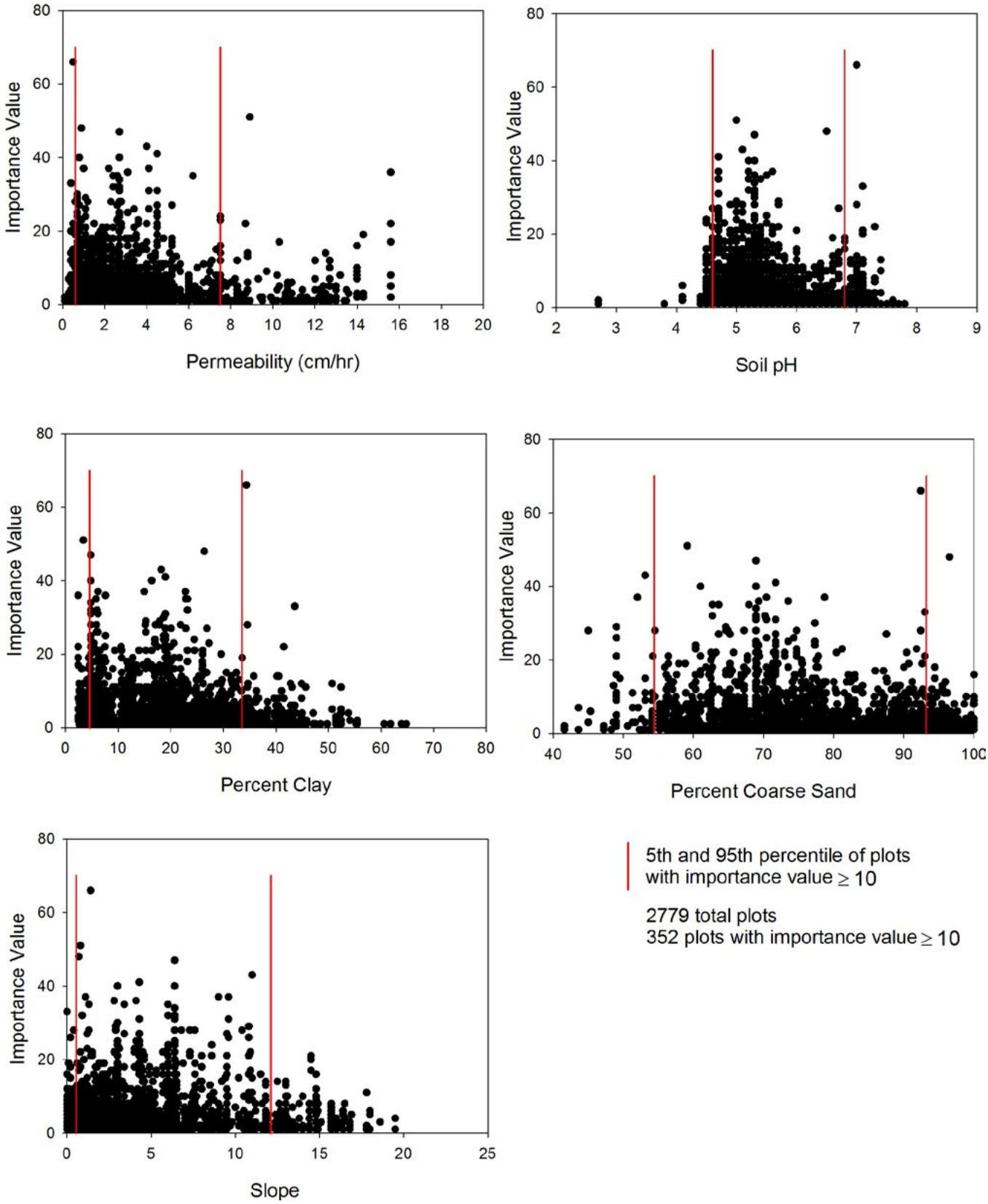
Castanea dentata (American chestnut)
Soil and Topographic Parameters



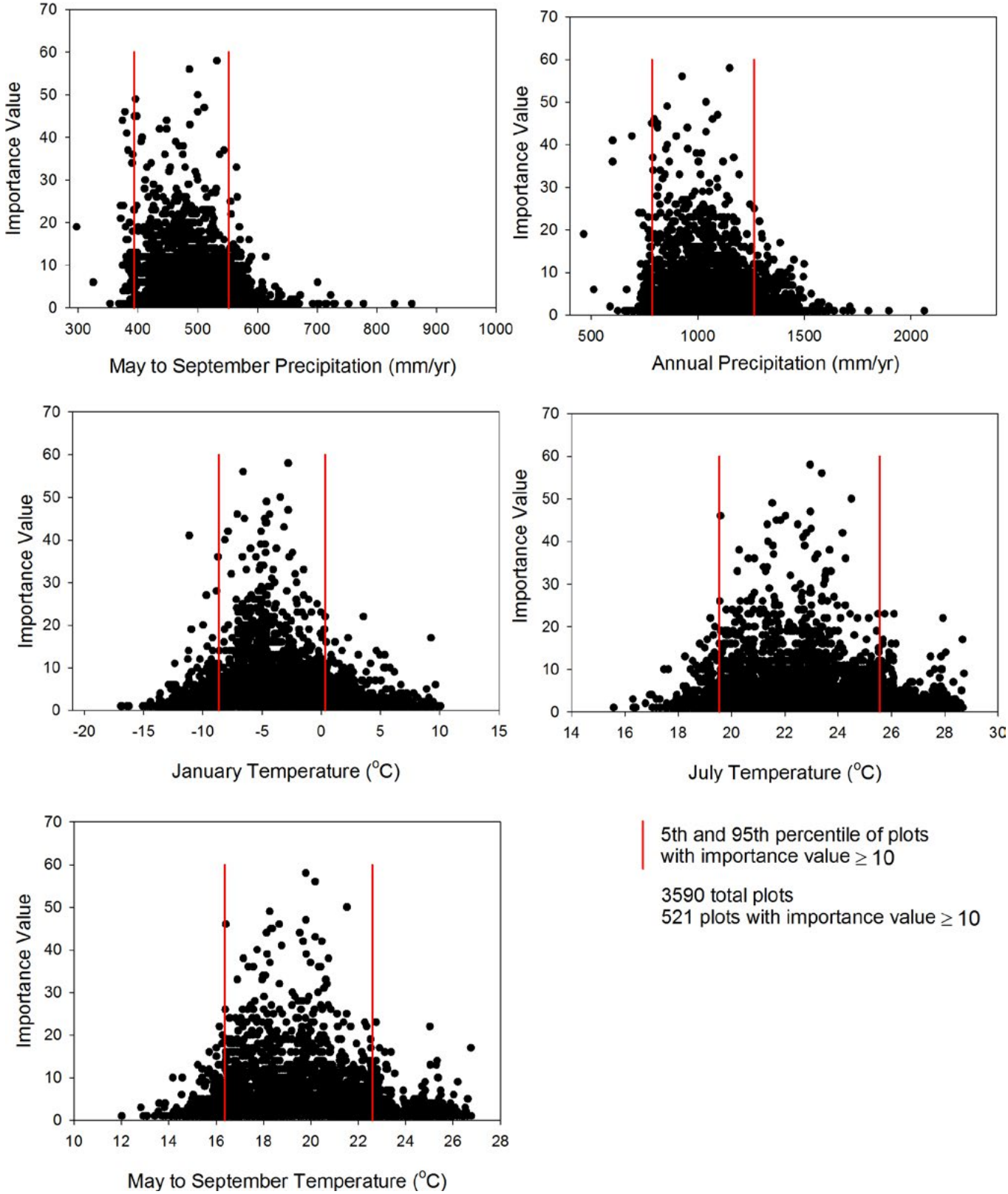
Fagus grandifolia (American beech)
Climate Parameters



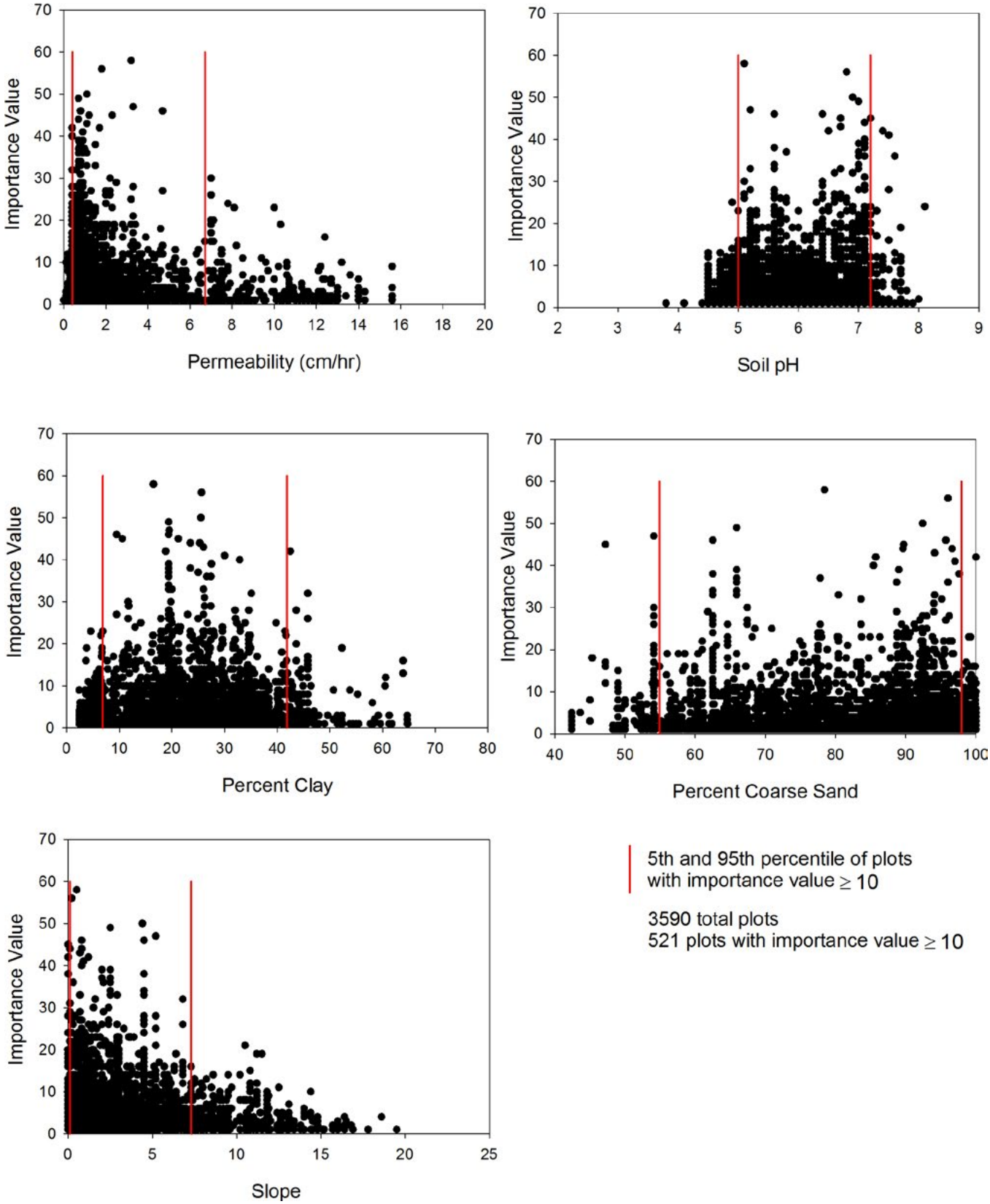
Fagus grandifolia (American beech)
Soil and Topographic Parameters



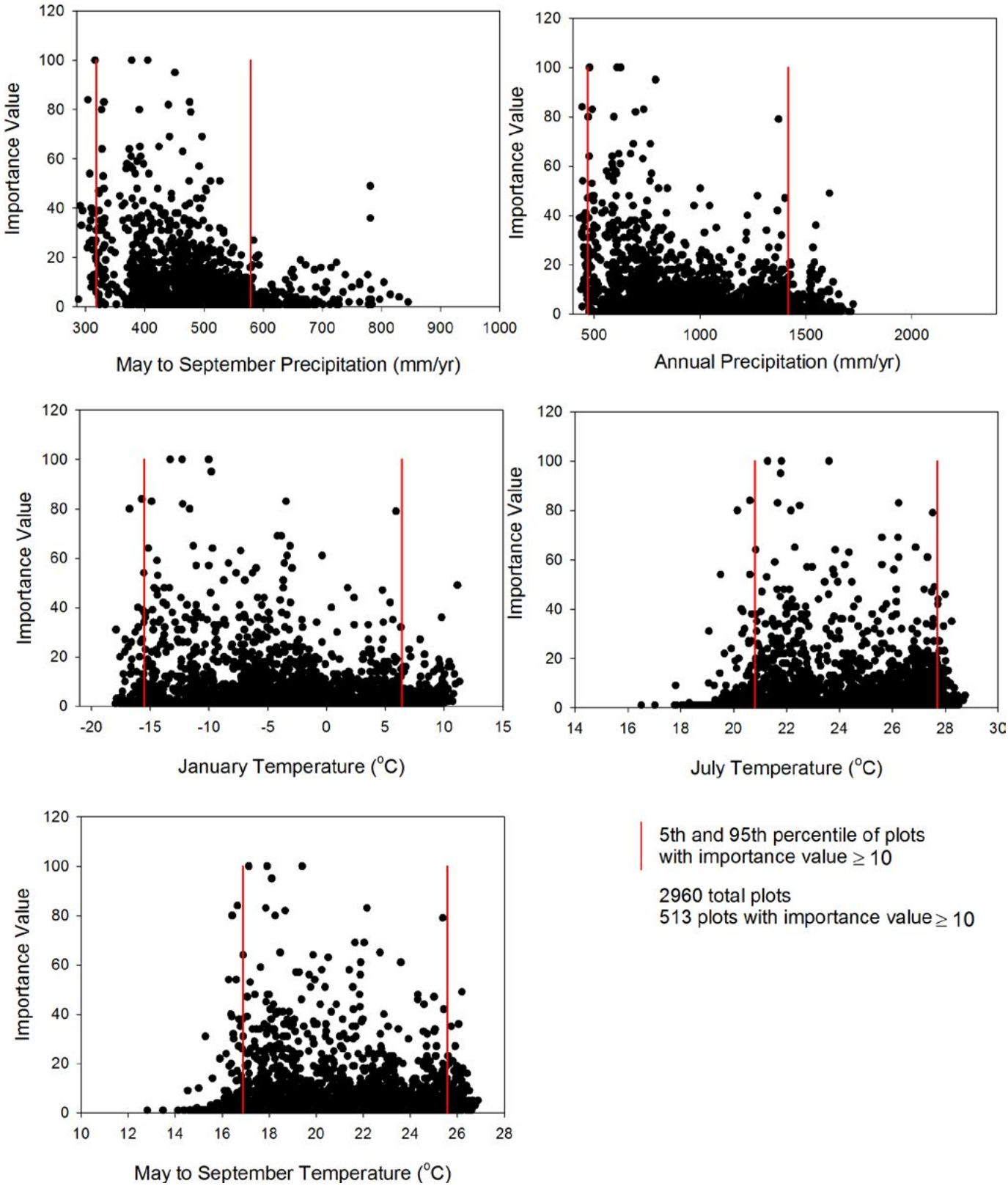
Fraxinus americana (white ash)
Climate Parameters



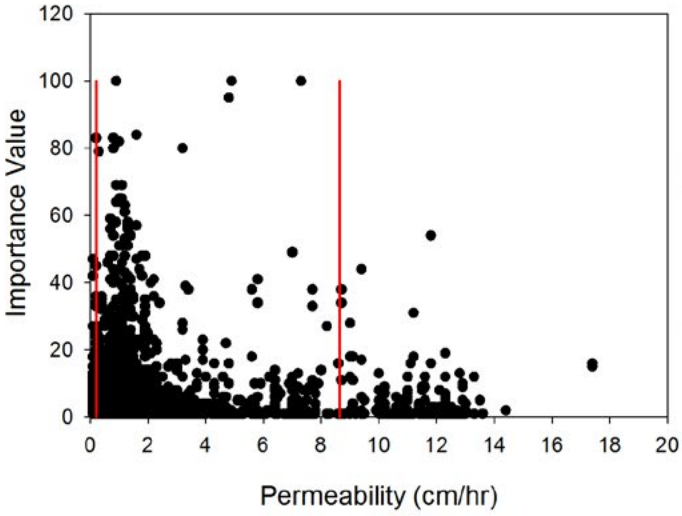
Fraxinus americana (white ash)
Soil and Topographic Parameters

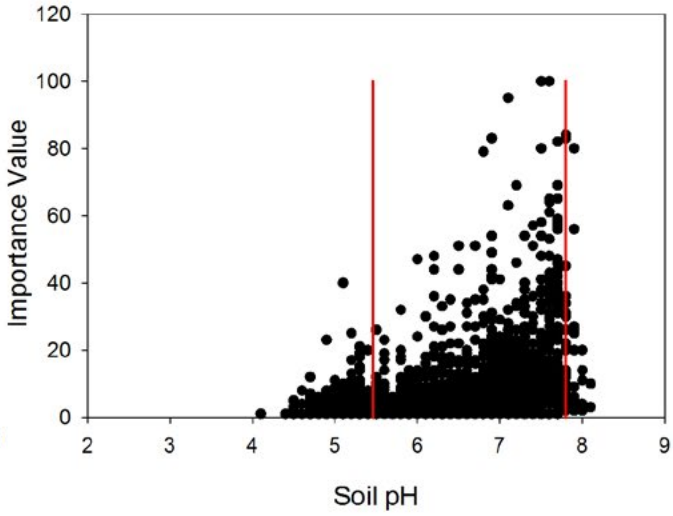


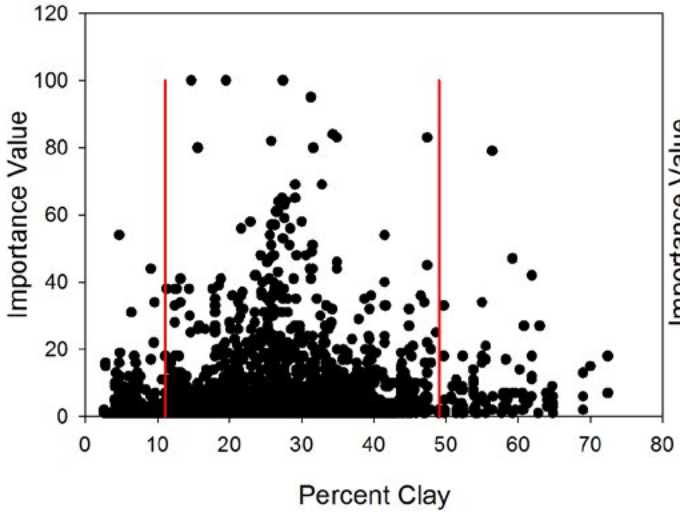
Fraxinus pennsylvanica (green ash)
Climate Parameters

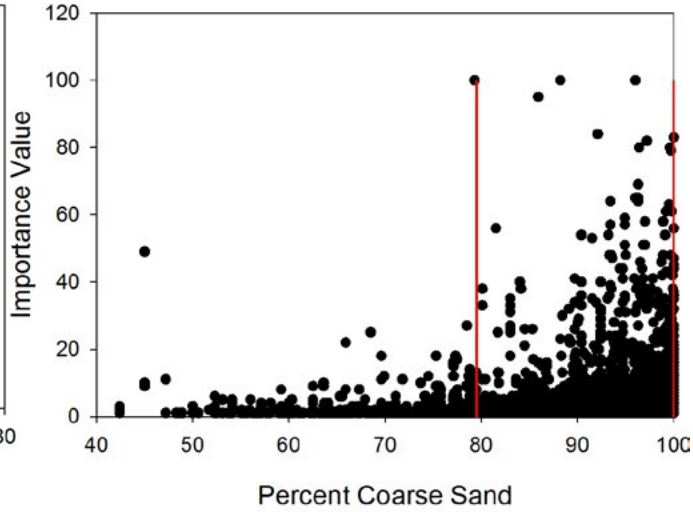


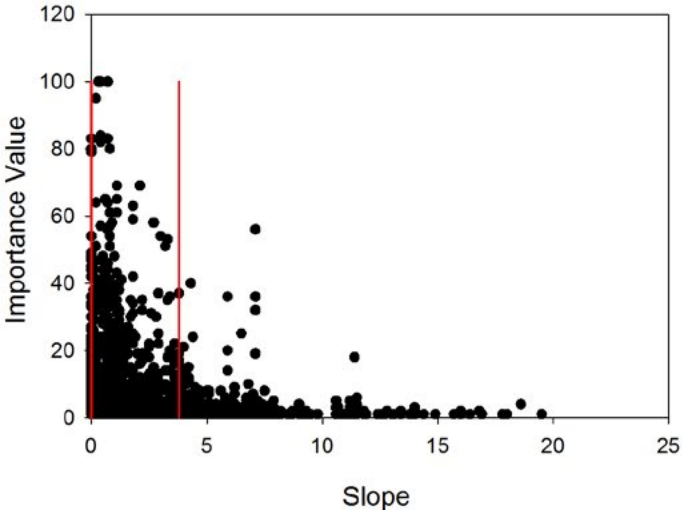
Fraxinus pennsylvanica (green ash)
Soil and Topographic Parameters







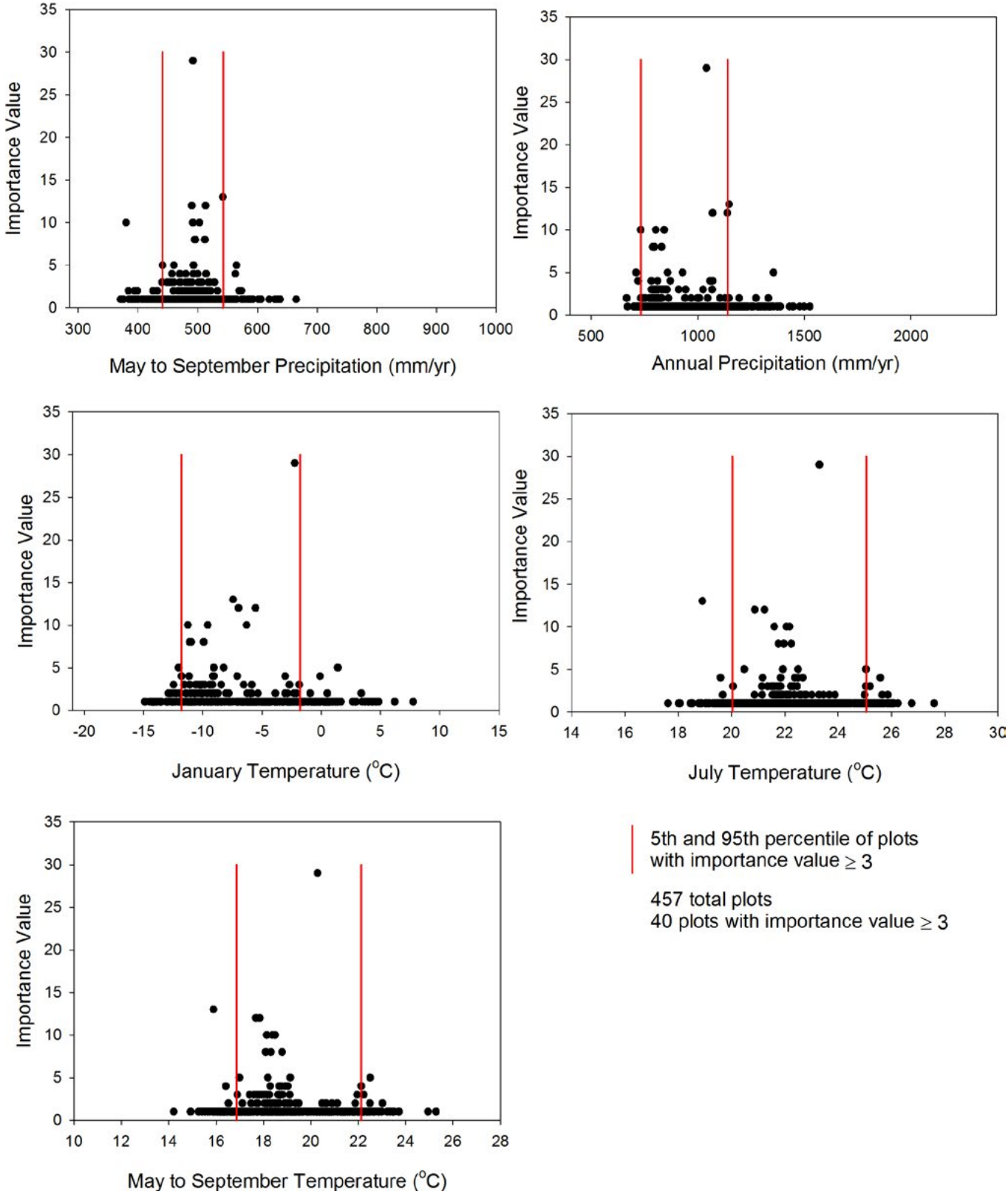




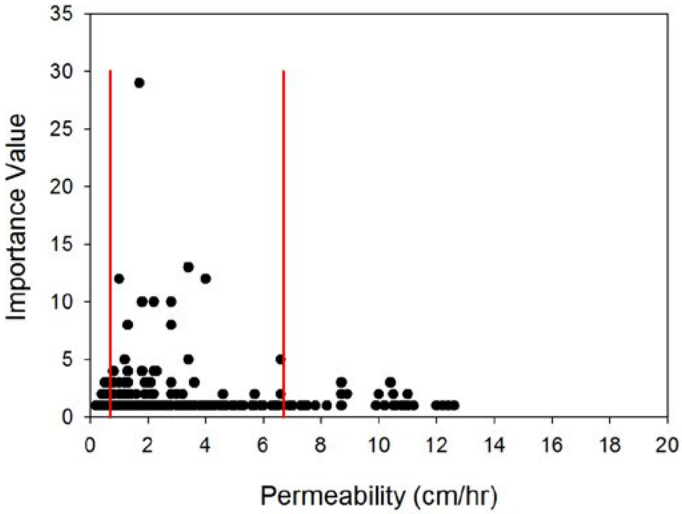
5th and 95th percentile of plots with importance value ≥ 10

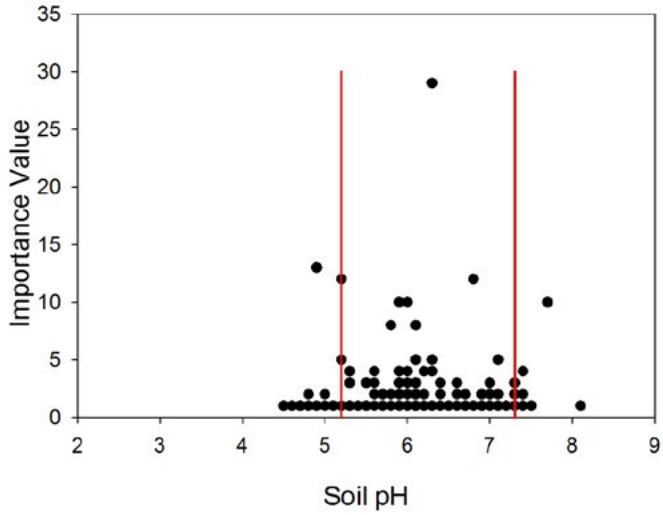
2960 total plots
513 plots with importance value ≥ 10

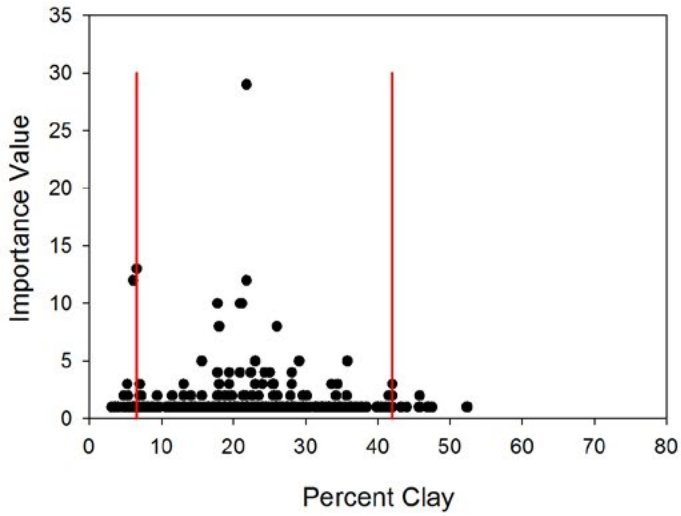
Juglans cinerea (butternut)
Climate Parameters

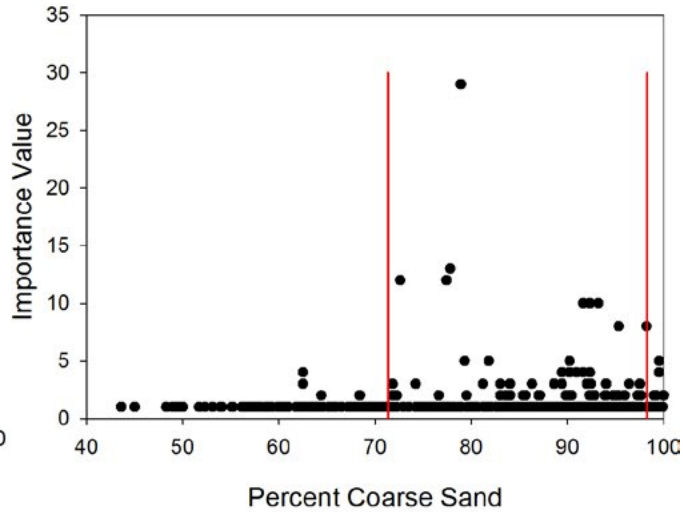


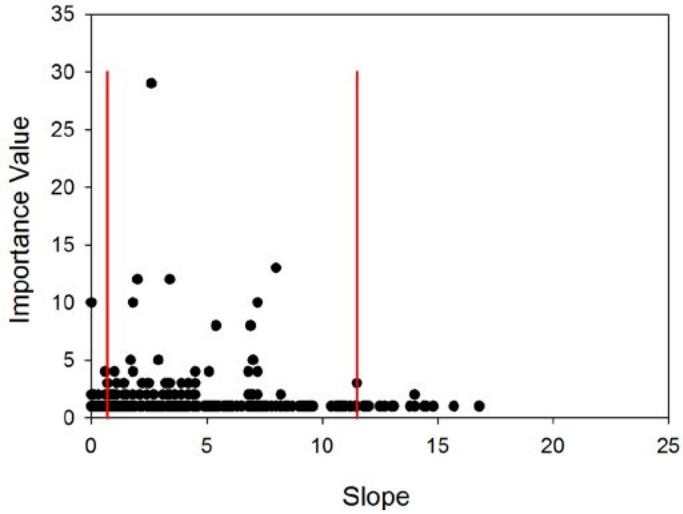
Juglans cinerea (butternut)
Soil and Topographic Parameters







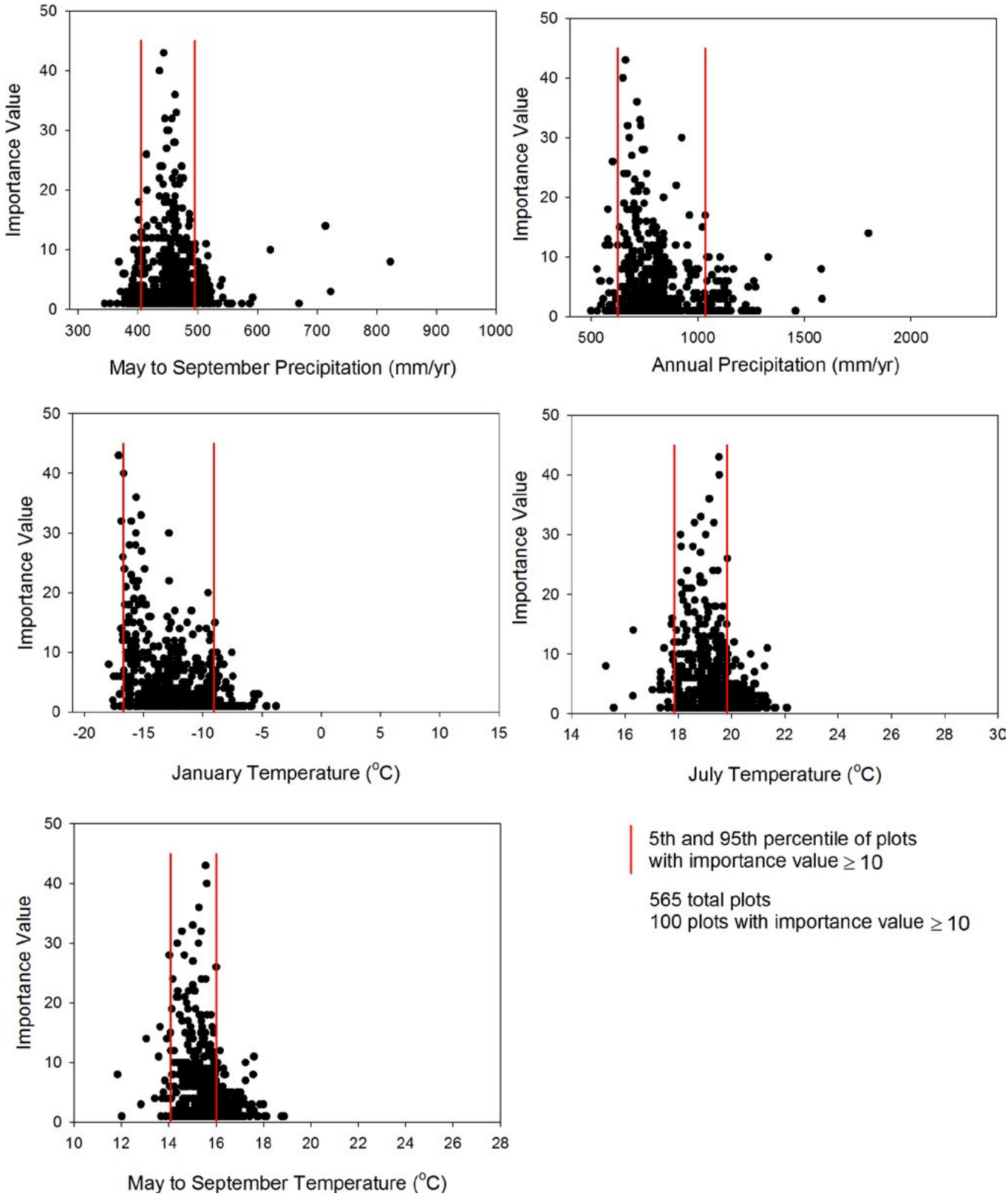




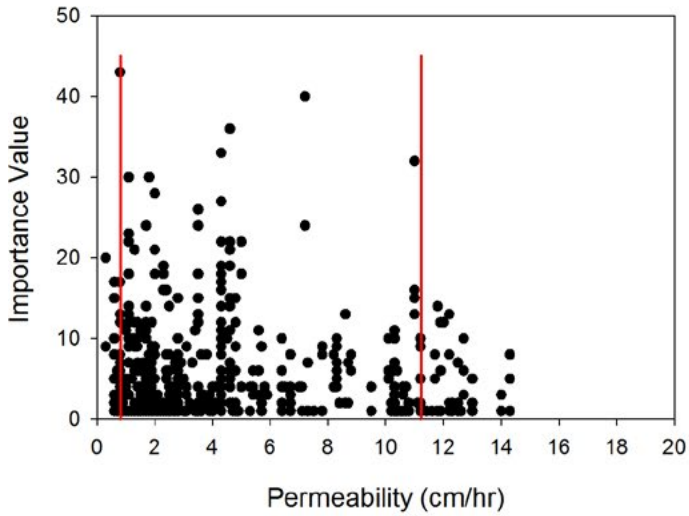
5th and 95th percentile of plots with importance value ≥ 3

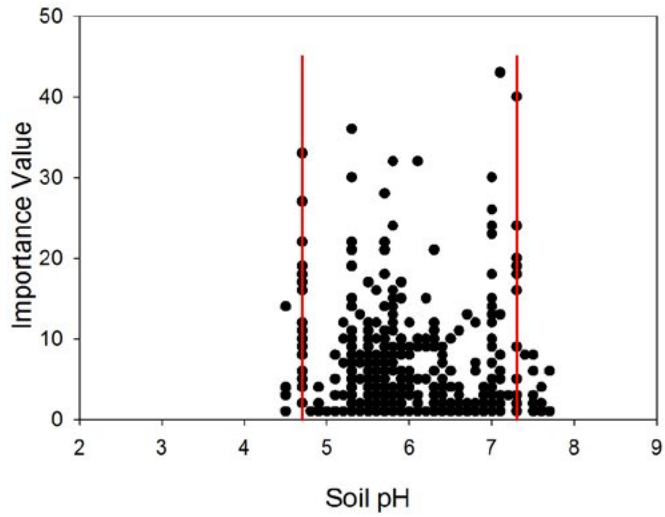
457 total plots
40 plots with importance value ≥ 3

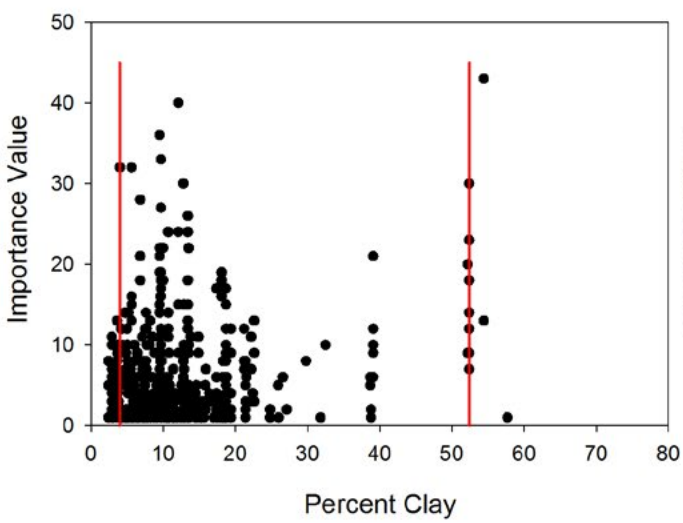
Picea mariana (black spruce)
Climate Parameters

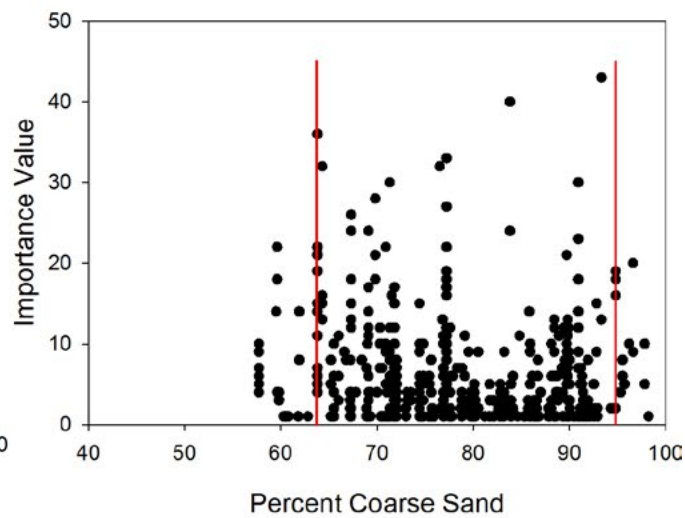


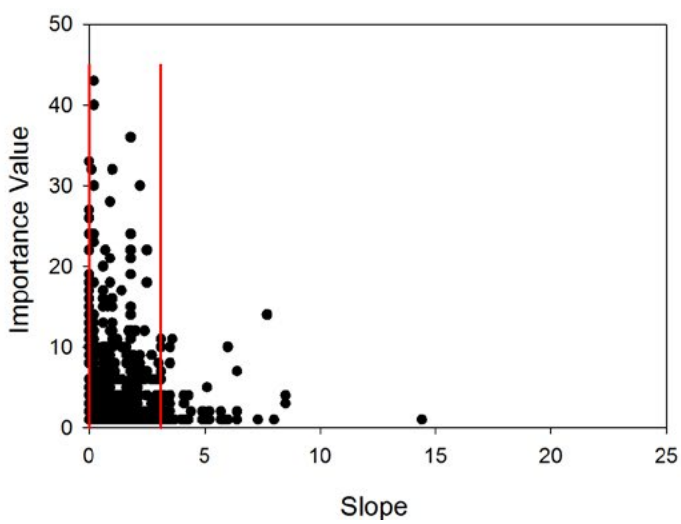
Picea mariana (black spruce)
Soil and Topographic Parameters







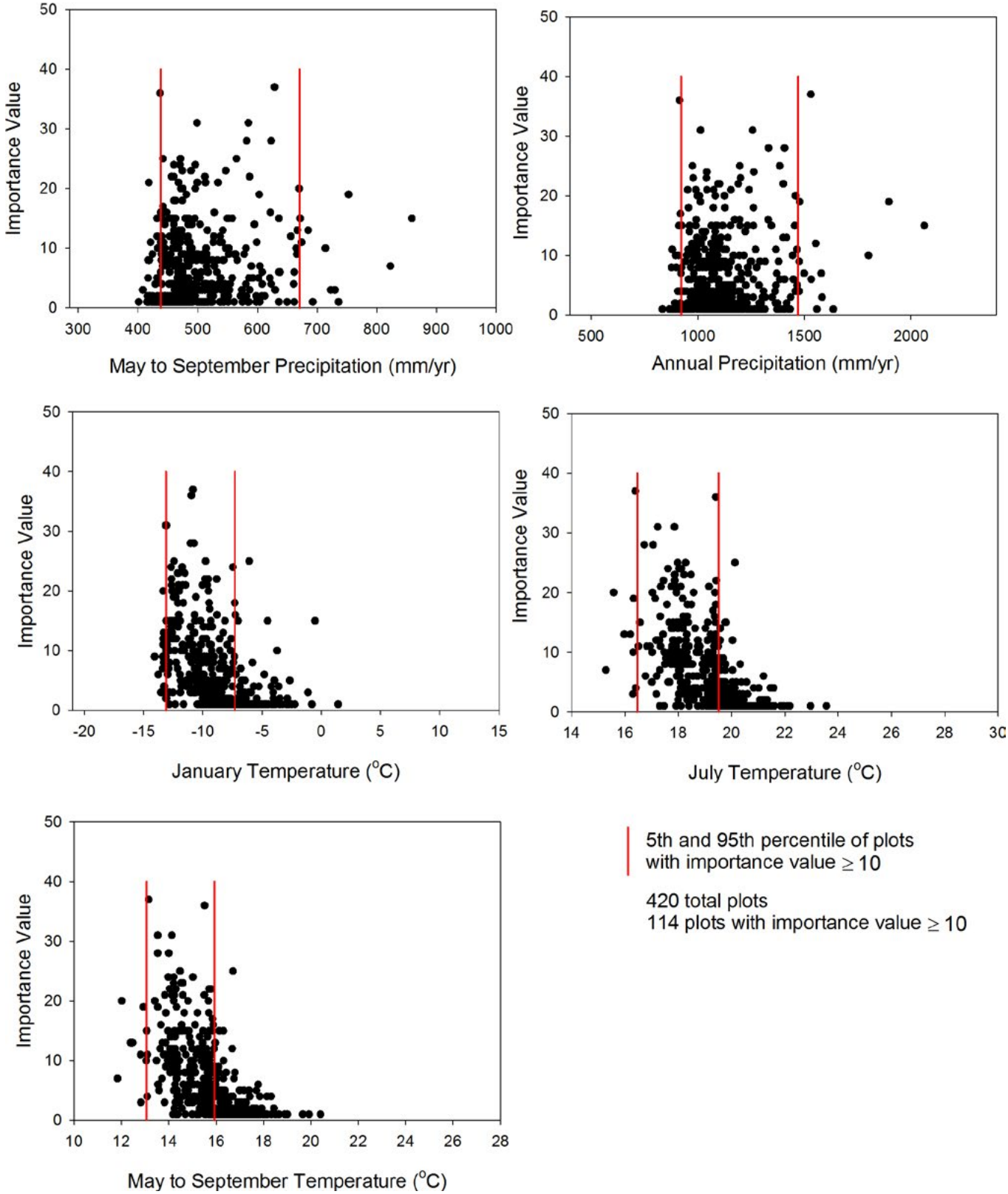




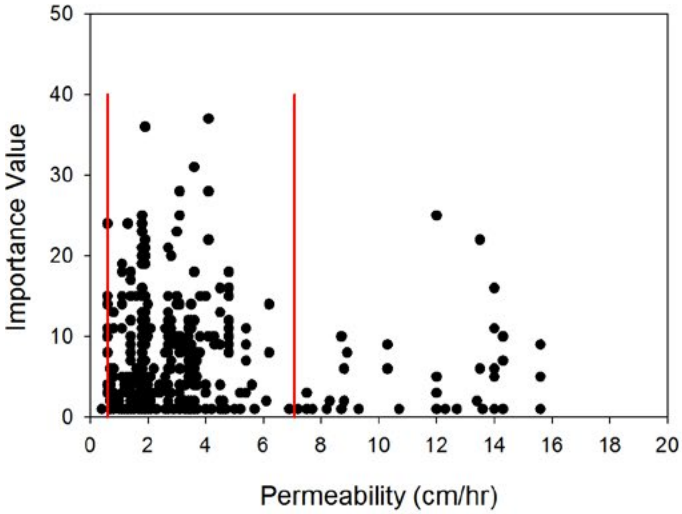
5th and 95th percentile of plots with importance value ≥ 10

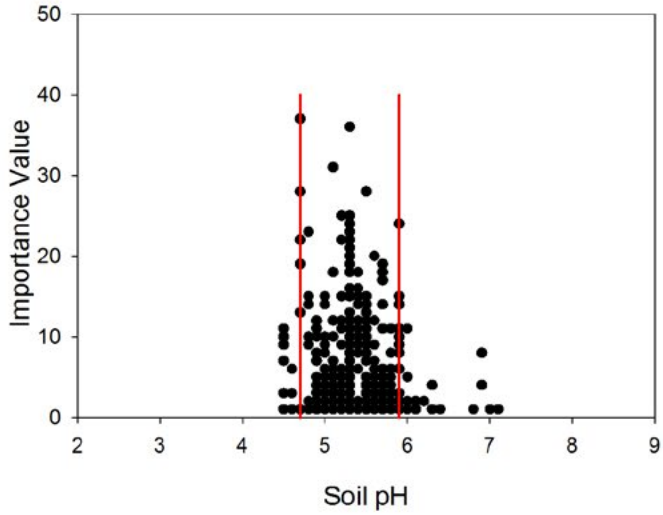
565 total plots
100 plots with importance value ≥ 10

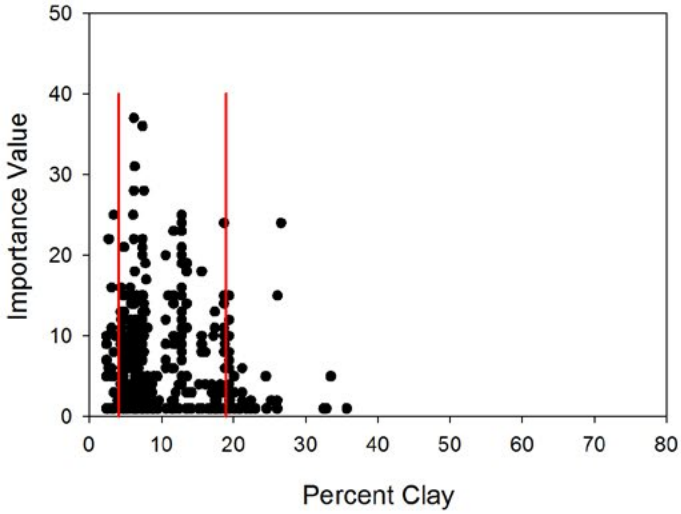
Picea rubens (red spruce)
Climate Parameters

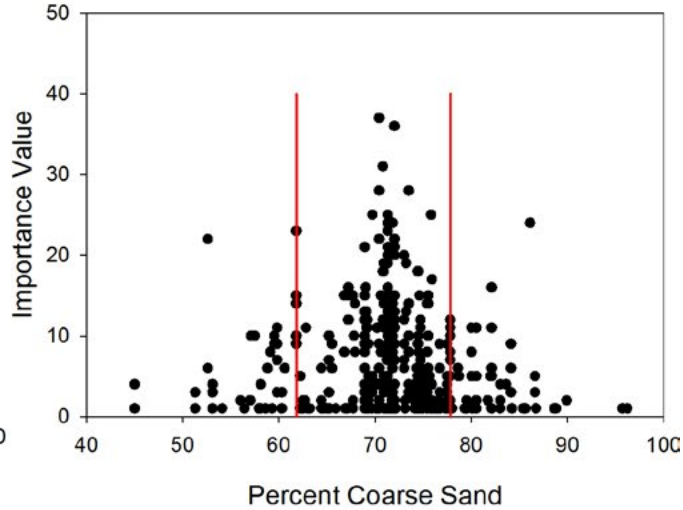


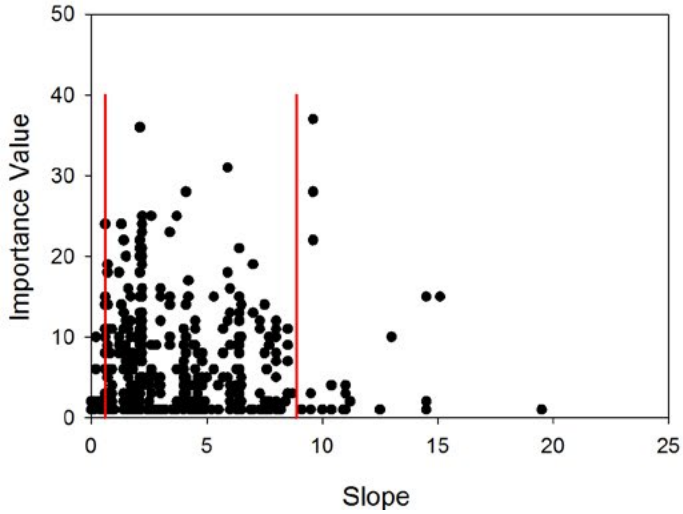
Picea rubens (red spruce)
Soil and Topographic Parameters







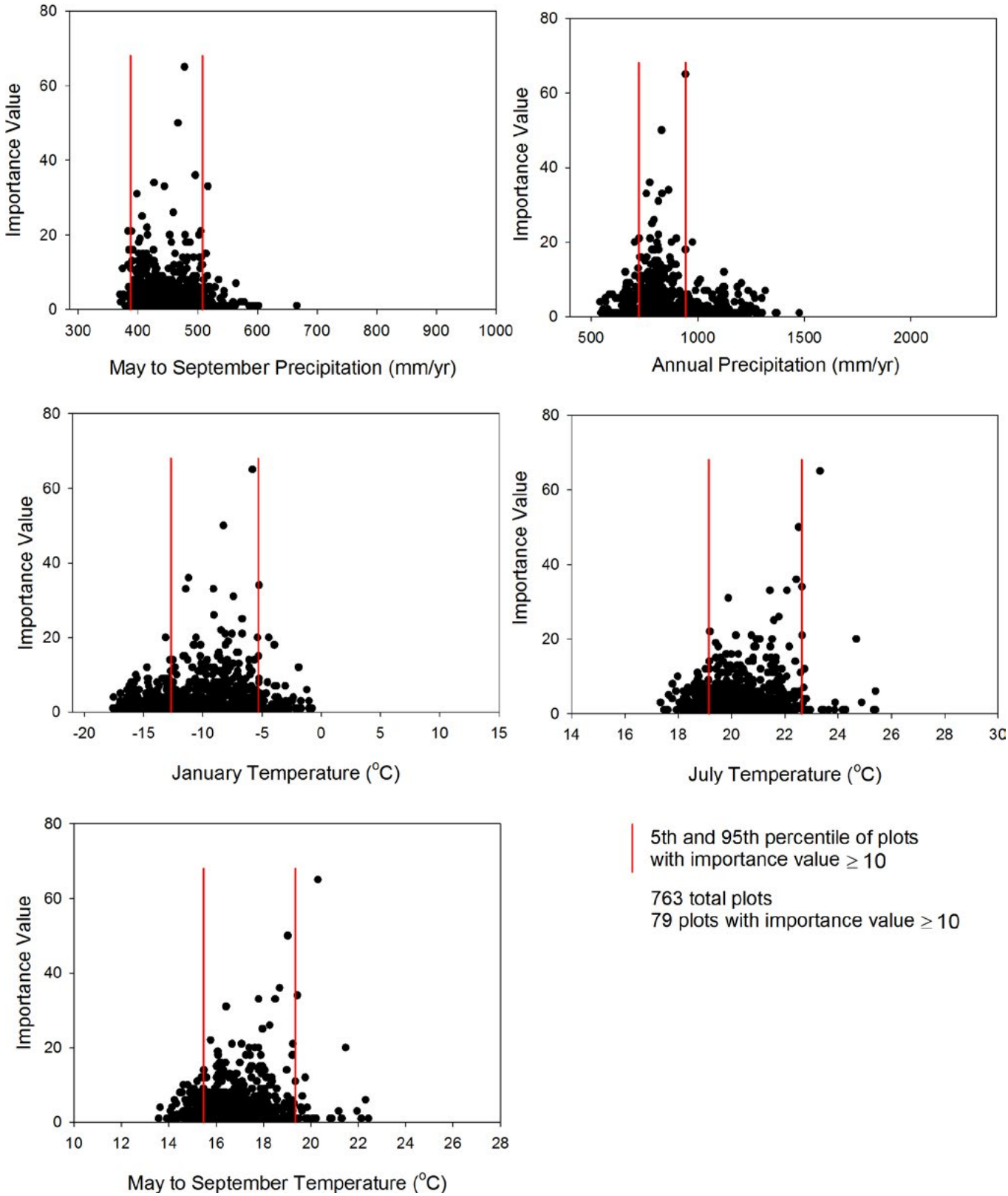




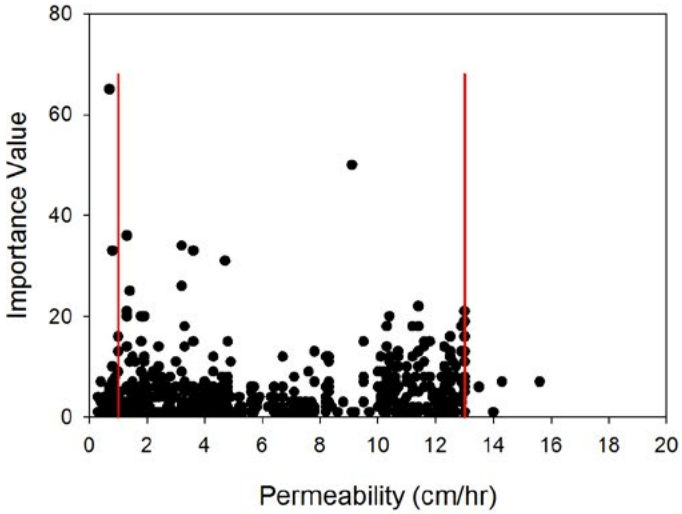
5th and 95th percentile of plots with importance value ≥ 10

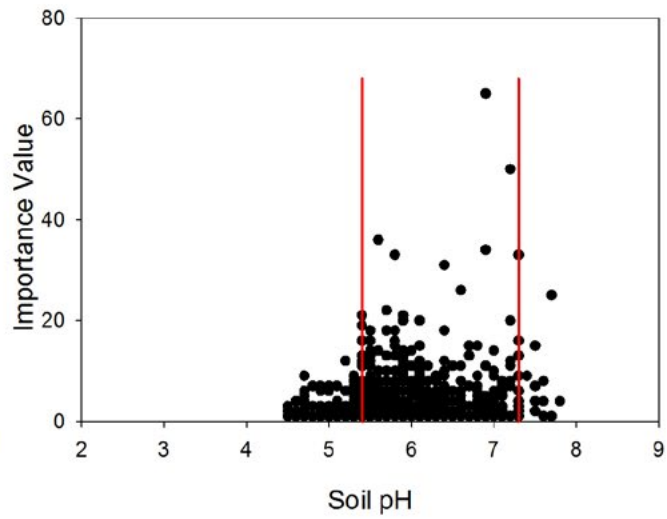
420 total plots
114 plots with importance value ≥ 10

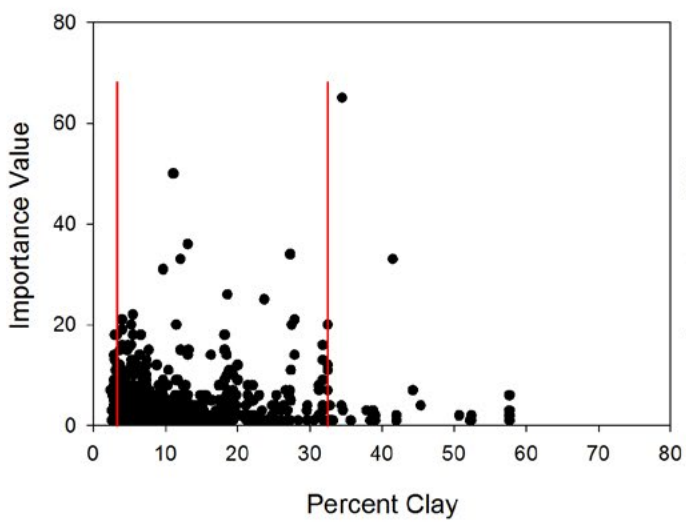
Pinus resinosa (red pine)
Climate Parameters

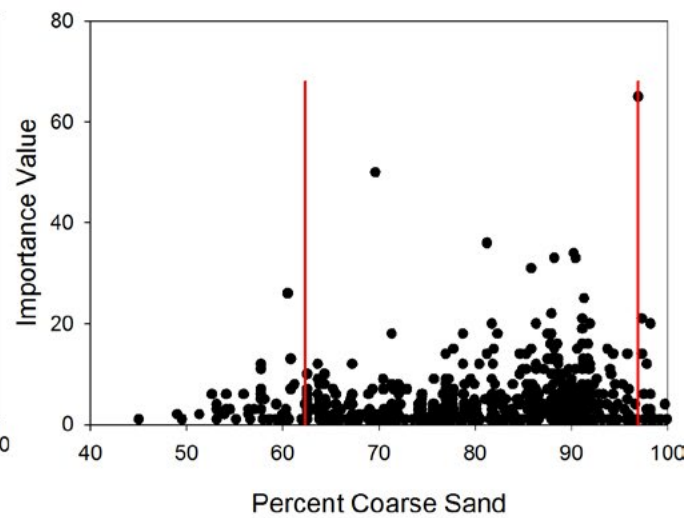


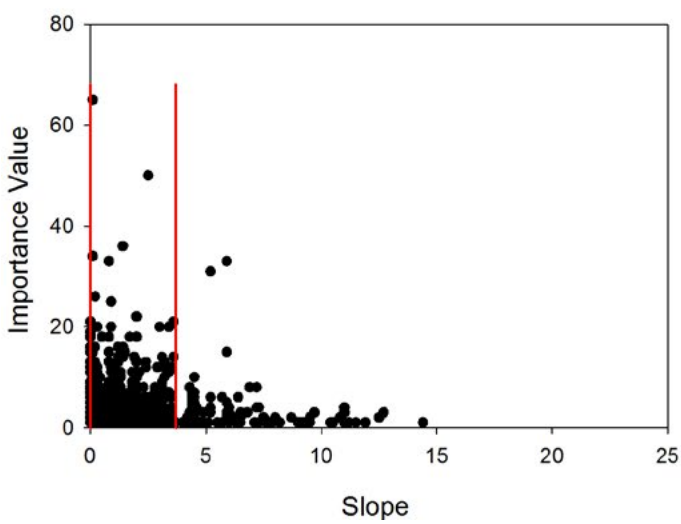
Pinus resinosa (red pine)
Soil and Topographic Parameters







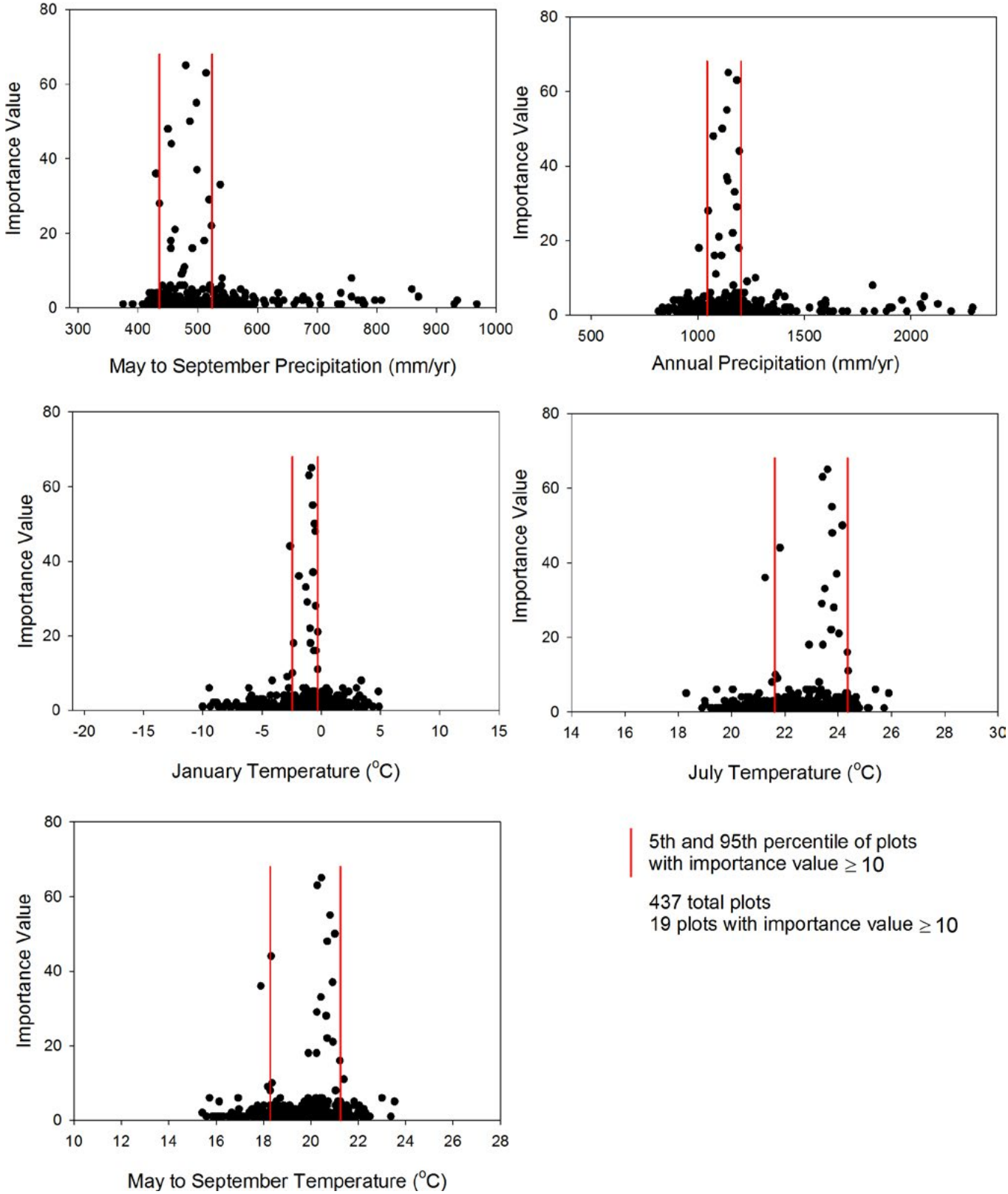




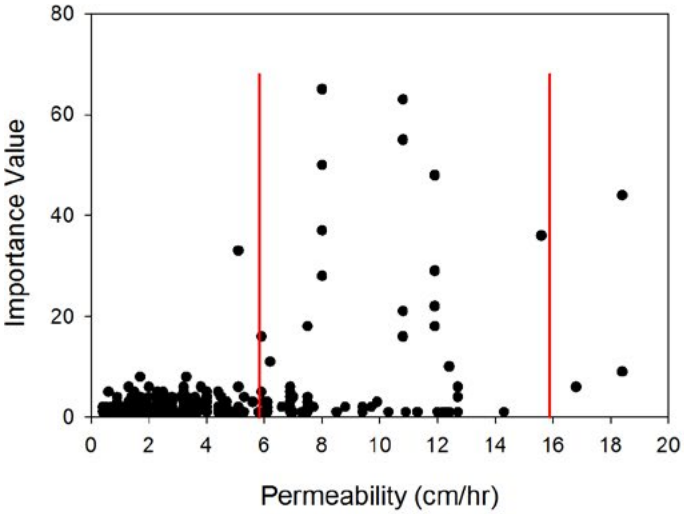
5th and 95th percentile of plots with importance value ≥ 10

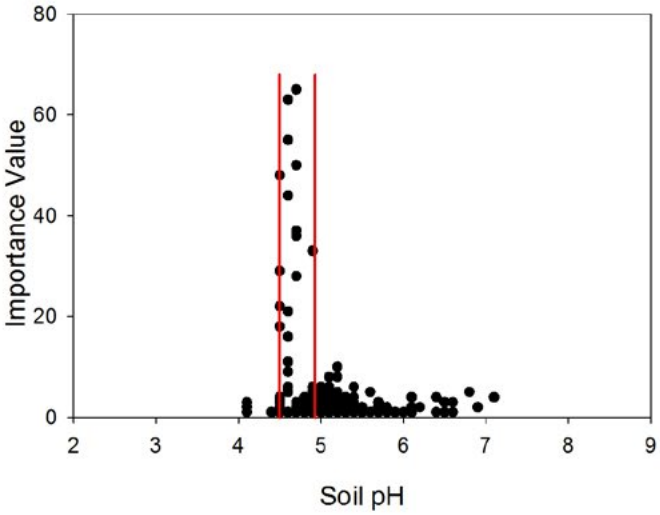
763 total plots
79 plots with importance value ≥ 10

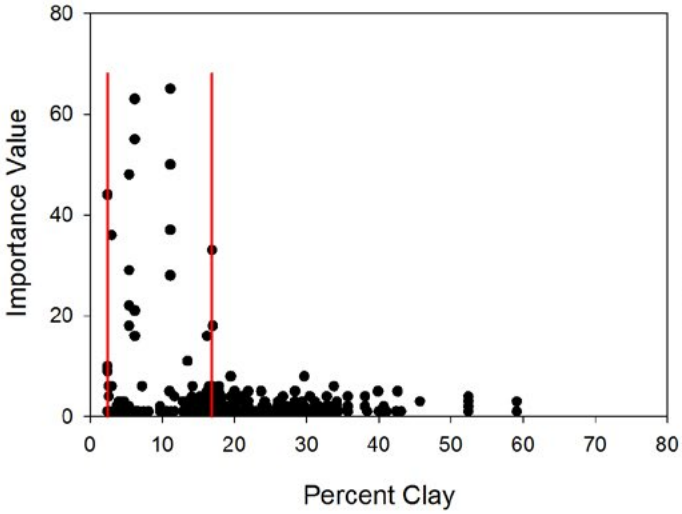
Pinus rigida (pitch pine)
Climate Parameters

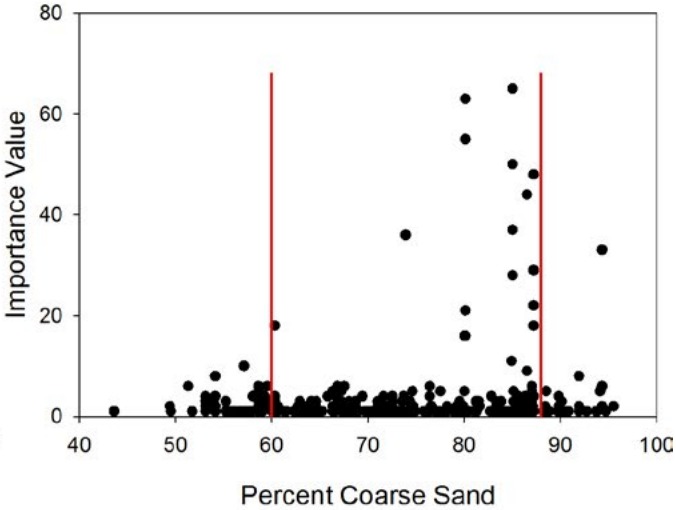


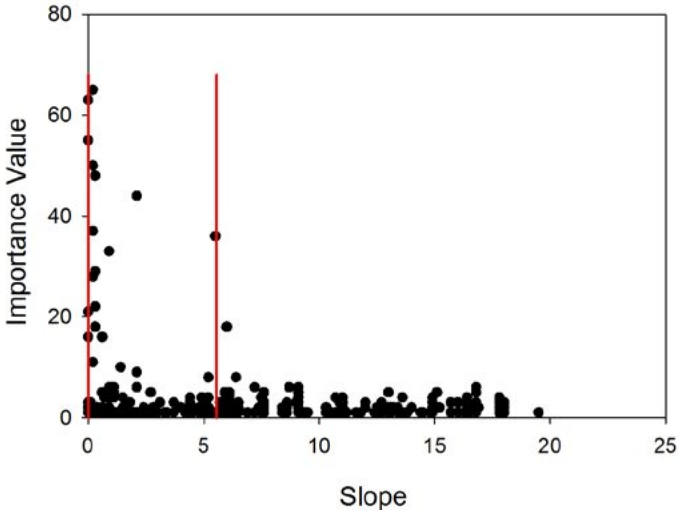
Pinus rigida (pitch pine)
Soil and Topographic Parameters







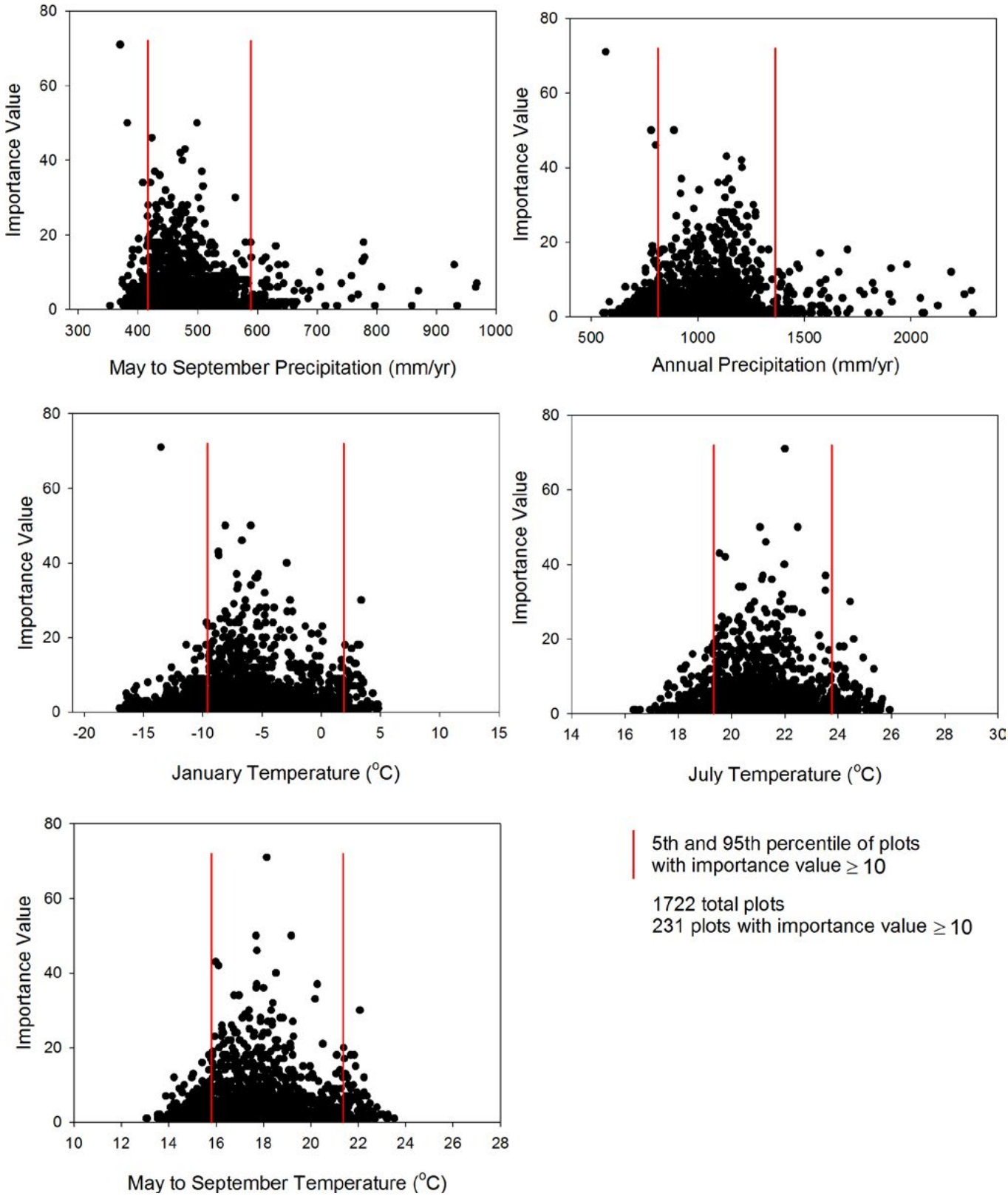




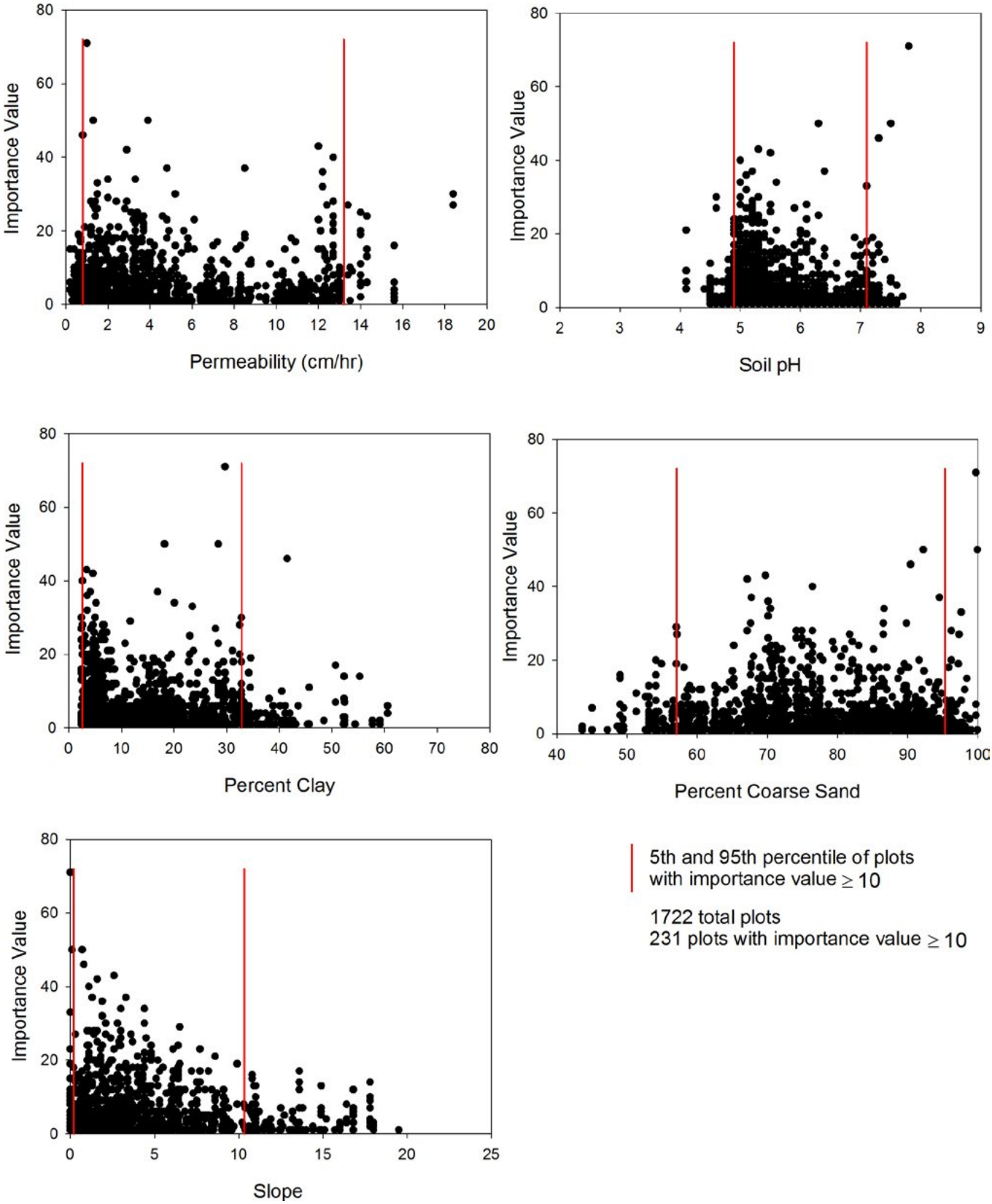
5th and 95th percentile of plots with importance value ≥ 10

437 total plots
19 plots with importance value ≥ 10

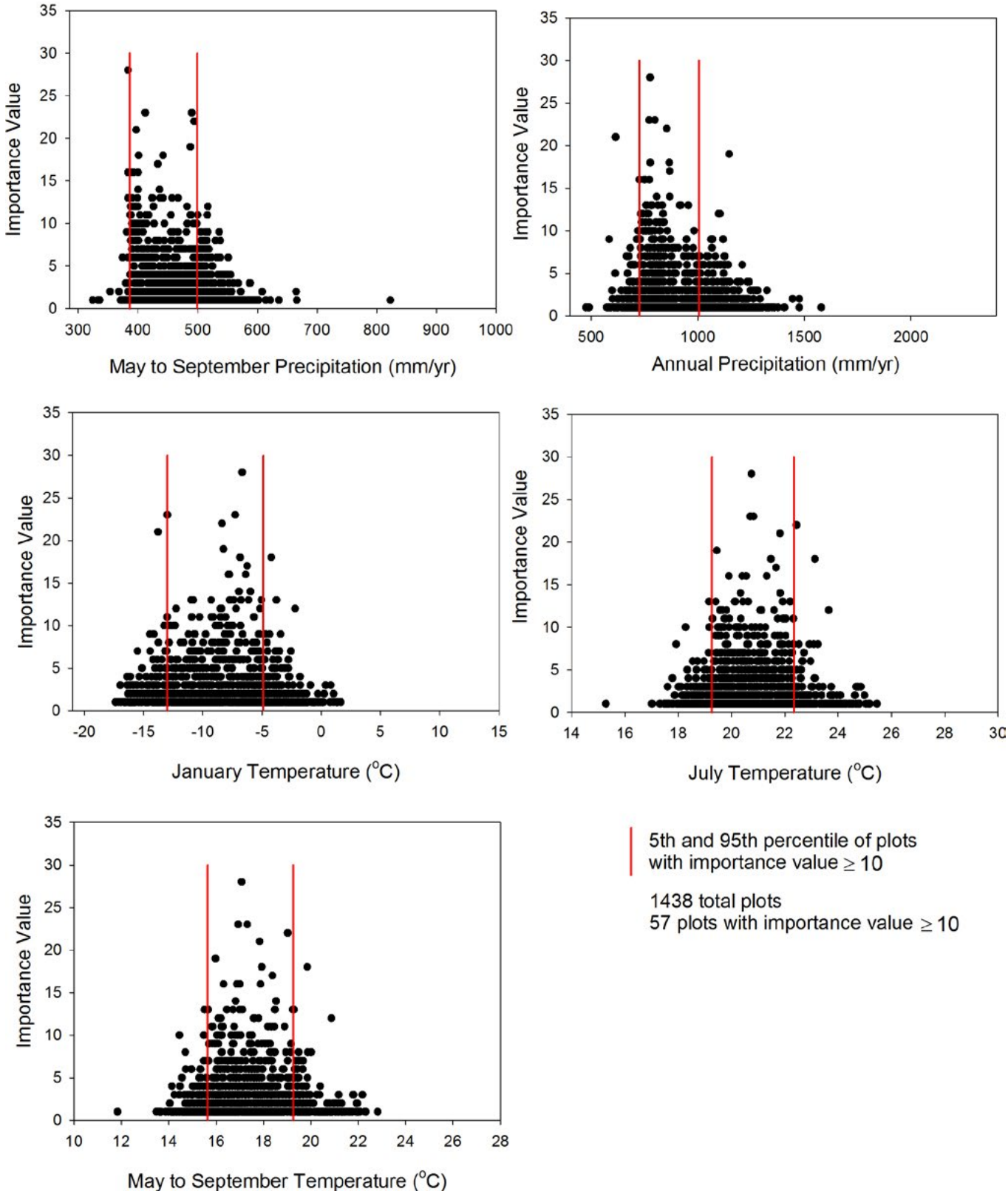
Pinus strobus (white pine)
Climate Parameters



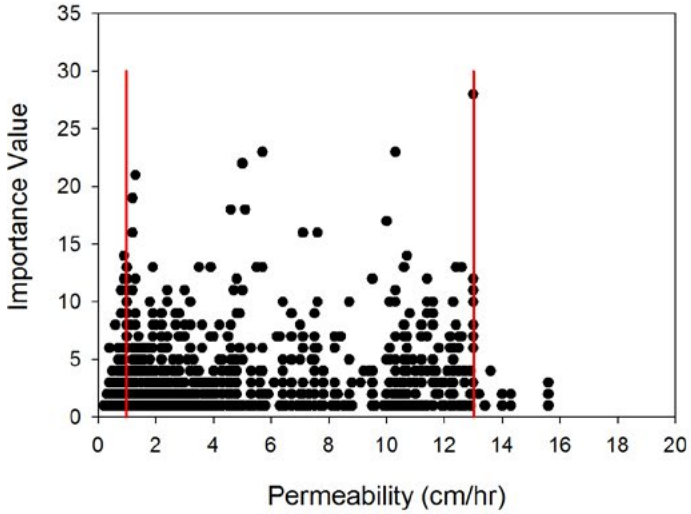
Pinus strobus (white pine)
Soil and Topographic Parameters

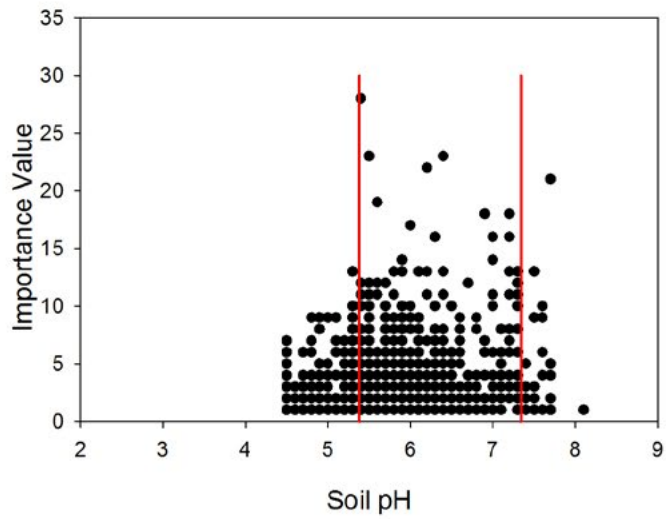


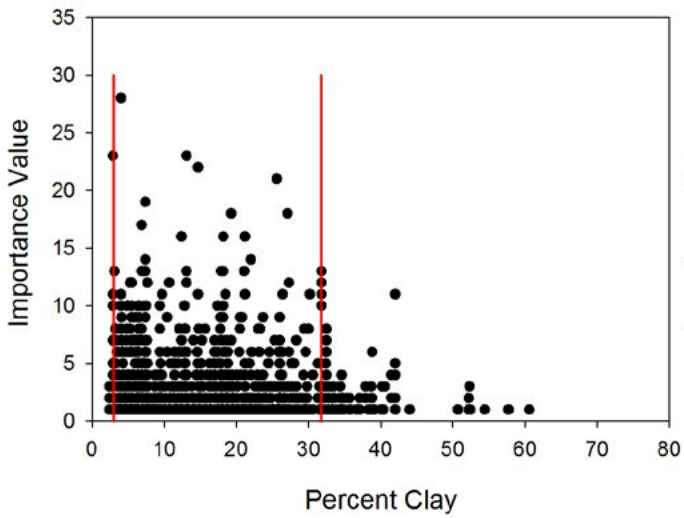
Populus grandidentata (bigtooth aspen) Climate Parameters

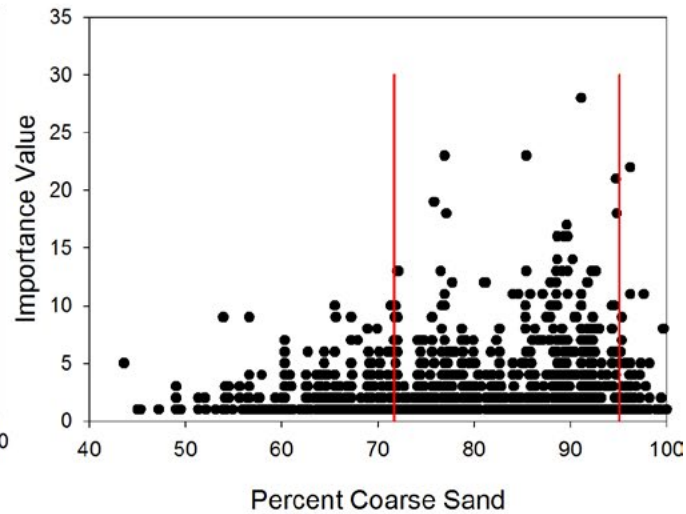


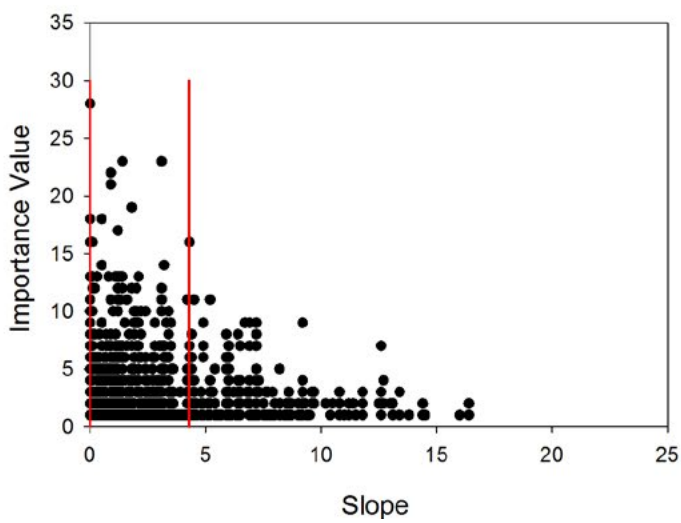
Populus grandidentata (bigtooth aspen)
Soil and Topographic Parameters







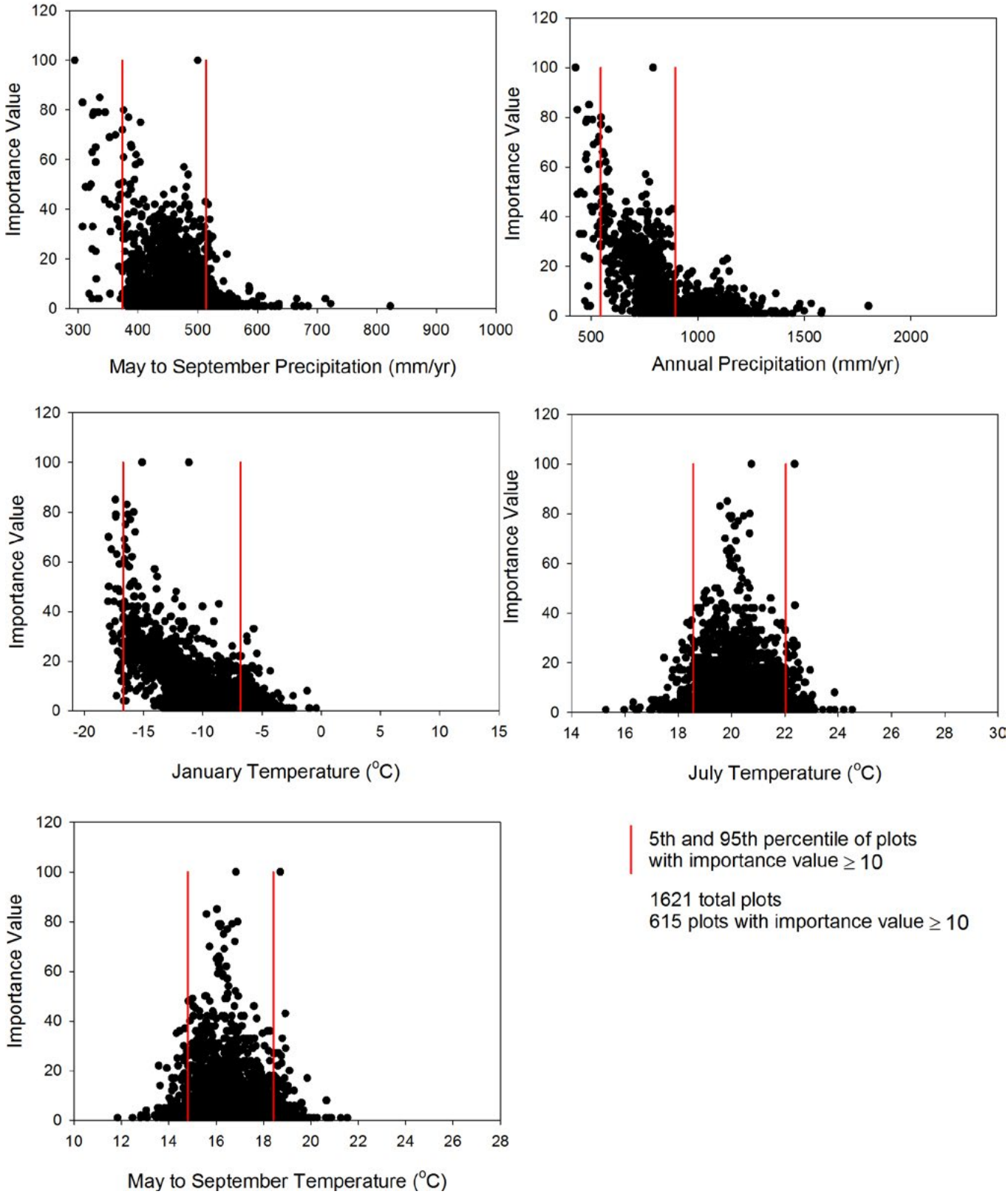




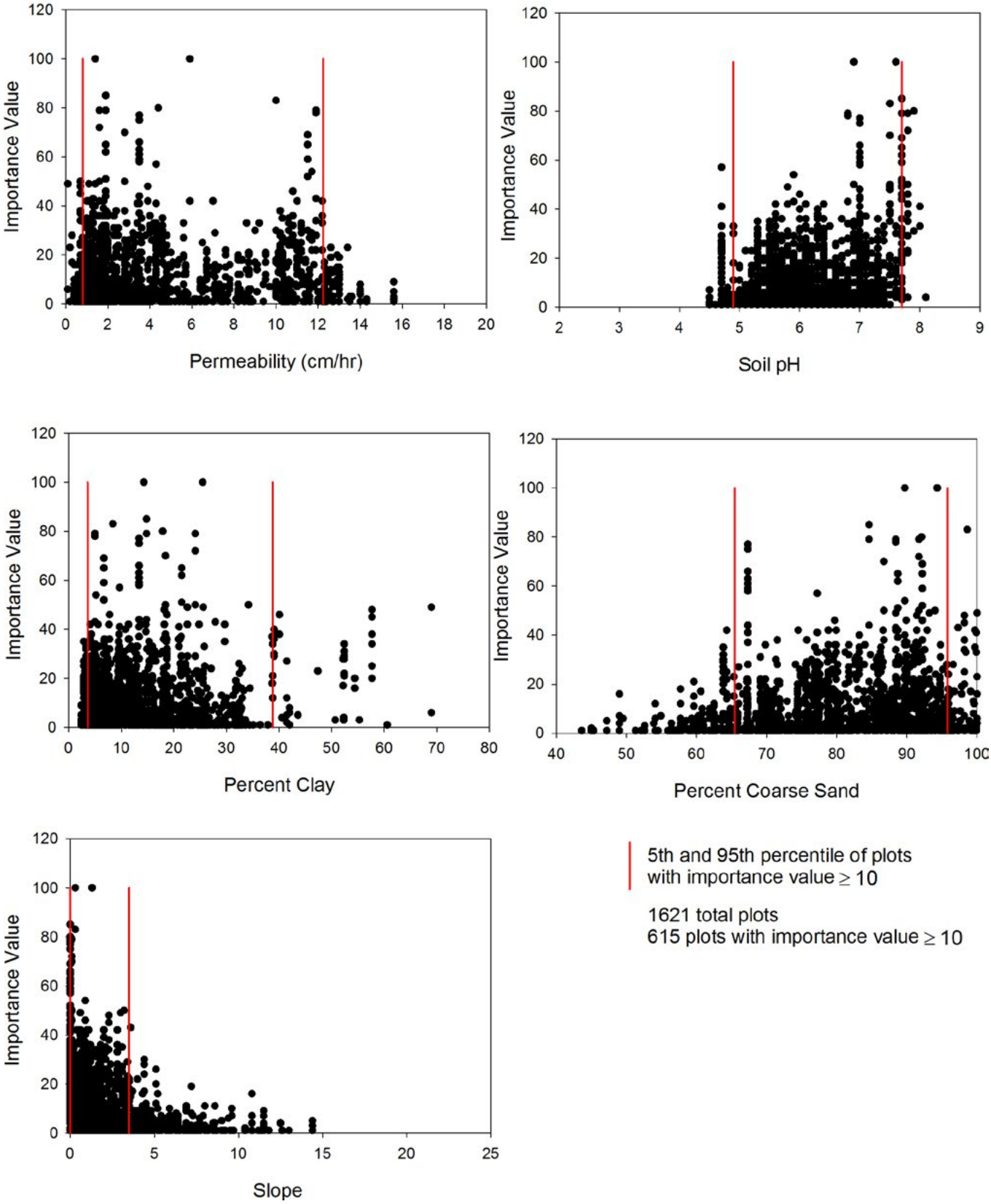
5th and 95th percentile of plots with importance value ≥ 10

1438 total plots
57 plots with importance value ≥ 10

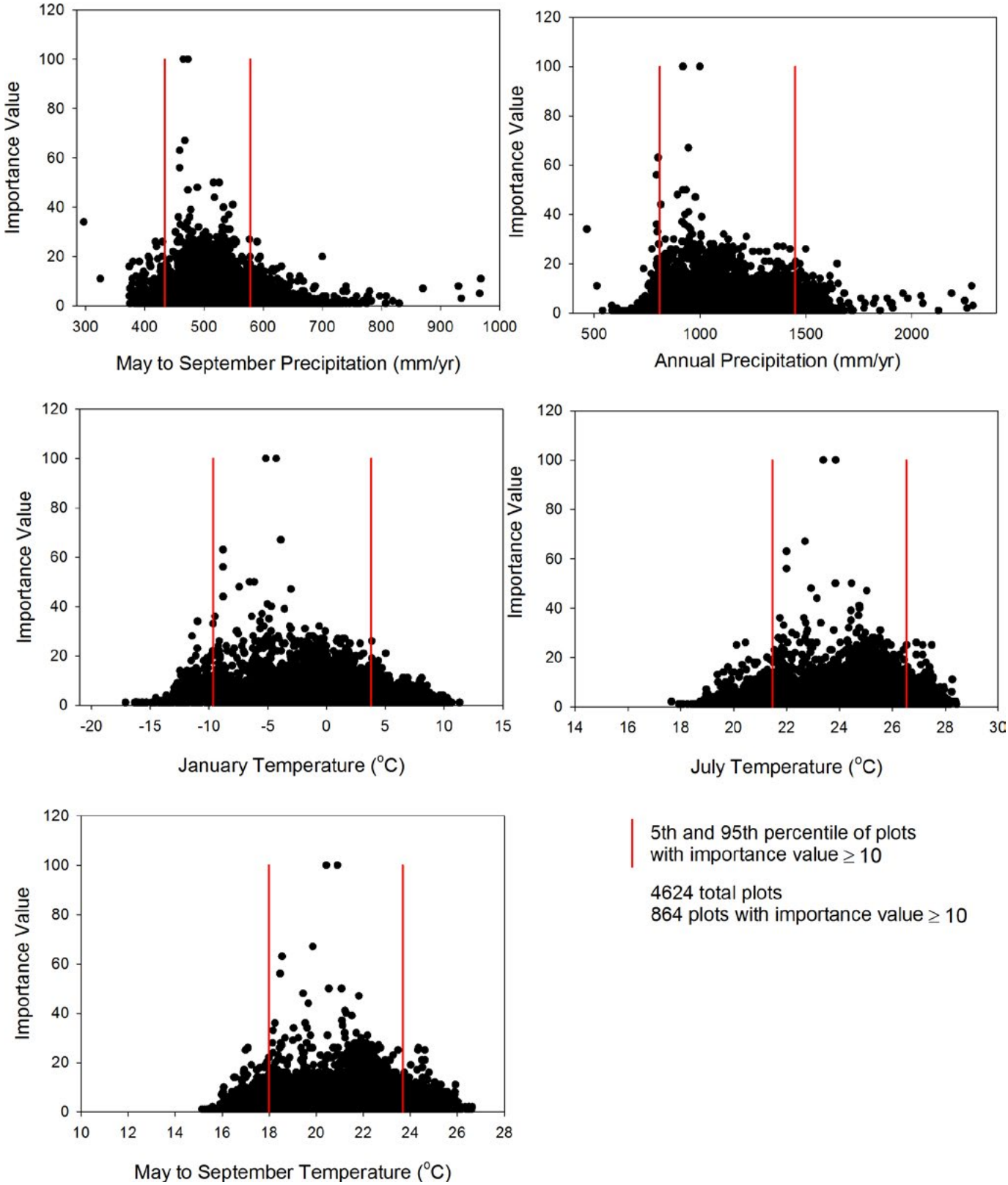
Populus tremuloides (quaking aspen)
Climate Parameters



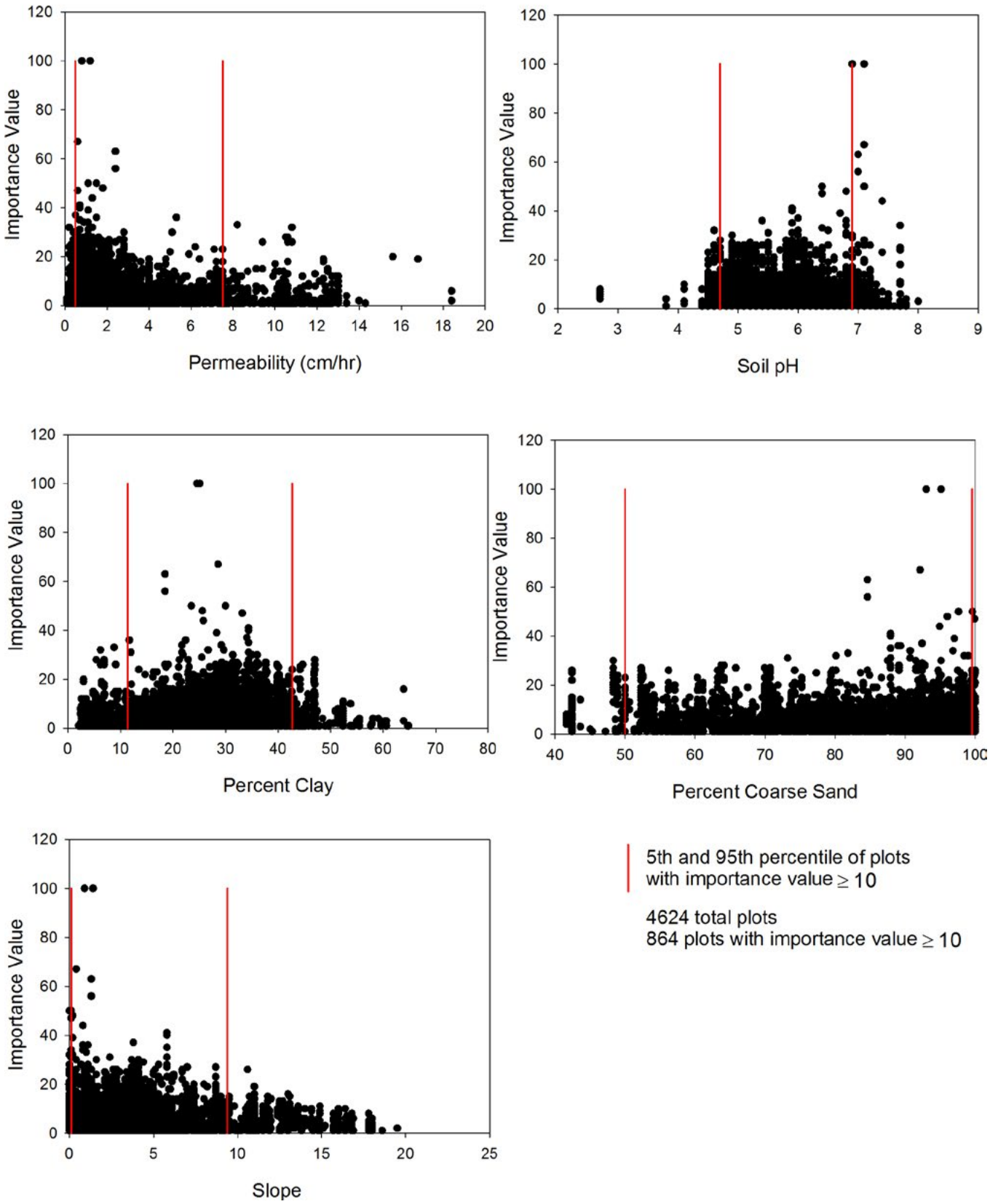
Populus tremuloides (quaking aspen)
Soil and Topographic Parameters



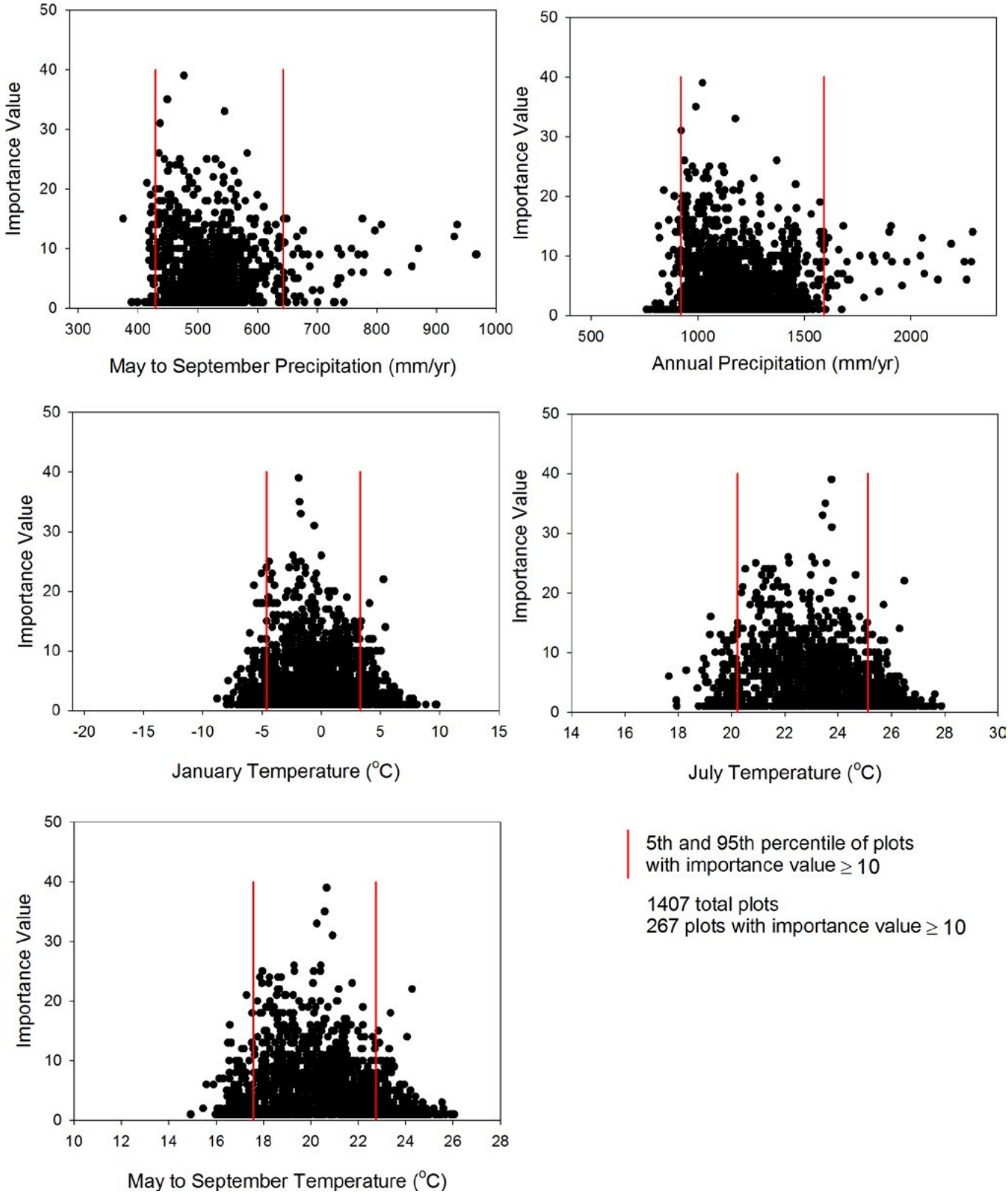
Quercus alba (white oak)
Climate Parameters



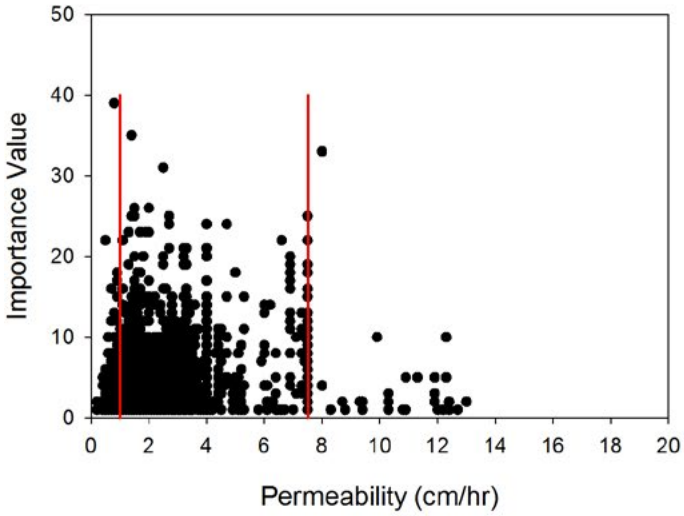
Quercus alba (white oak)
Soil and Topographic Parameters

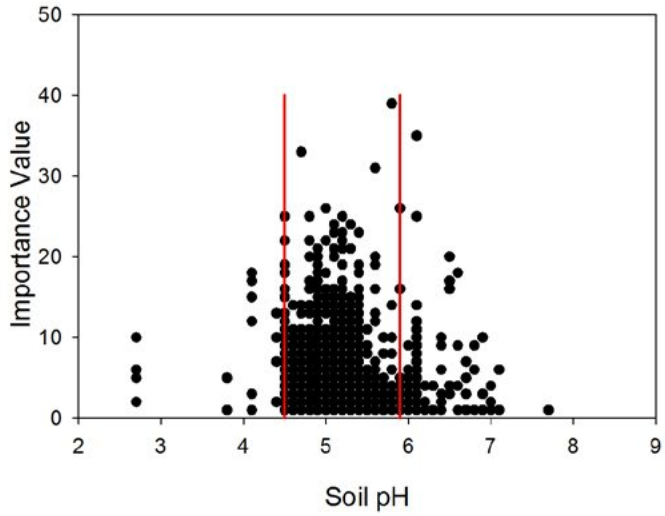


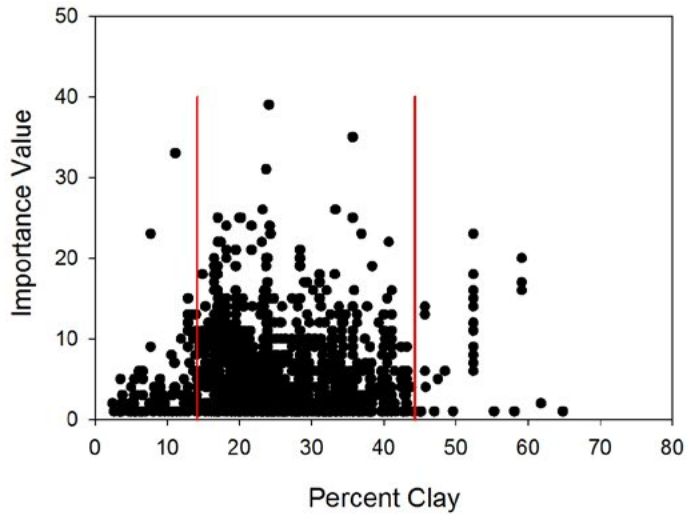
Quercus prinus (chestnut oak)
Climate Parameters

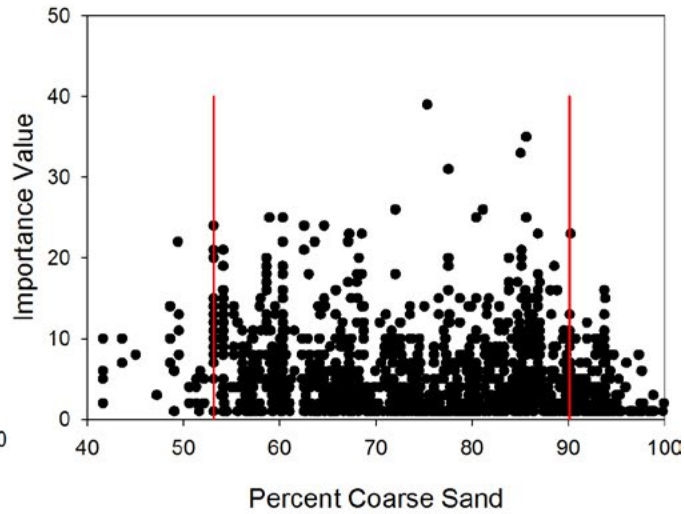


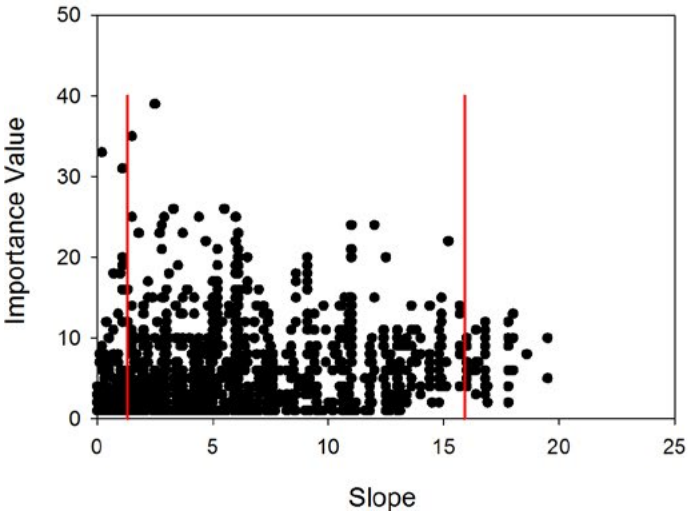
Quercus prinus (chestnut oak)
Soil and Topographic parameters







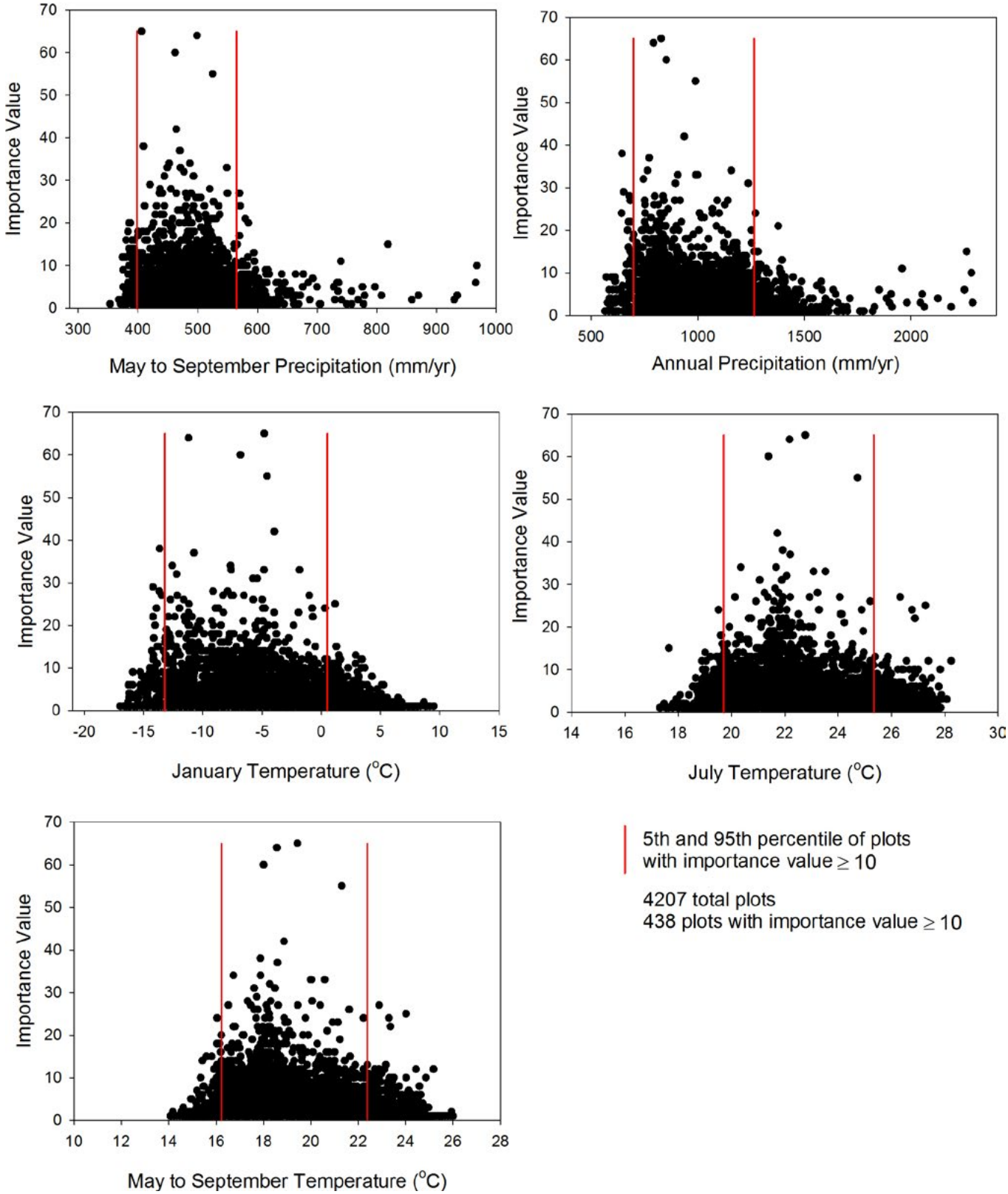




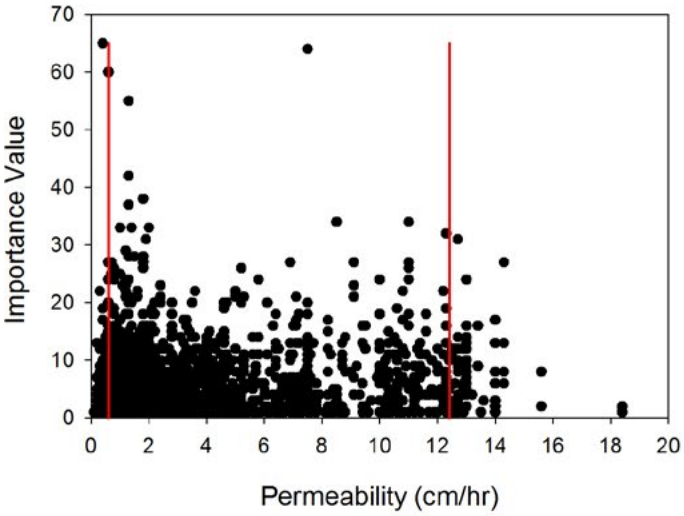
5th and 95th percentile of plots with importance value ≥ 10

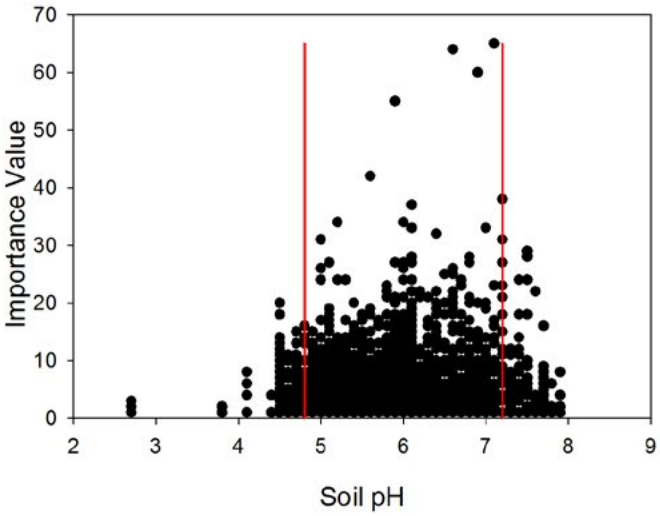
1407 total plots
267 plots with importance value ≥ 10

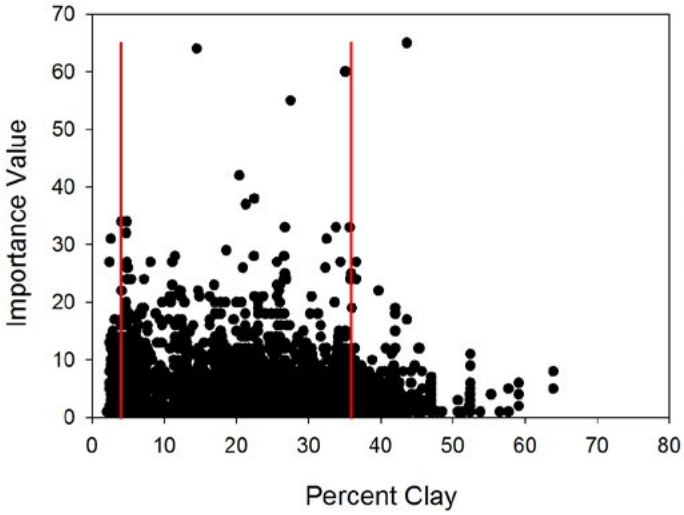
Quercus rubra (northern red oak)
Climate Parameters

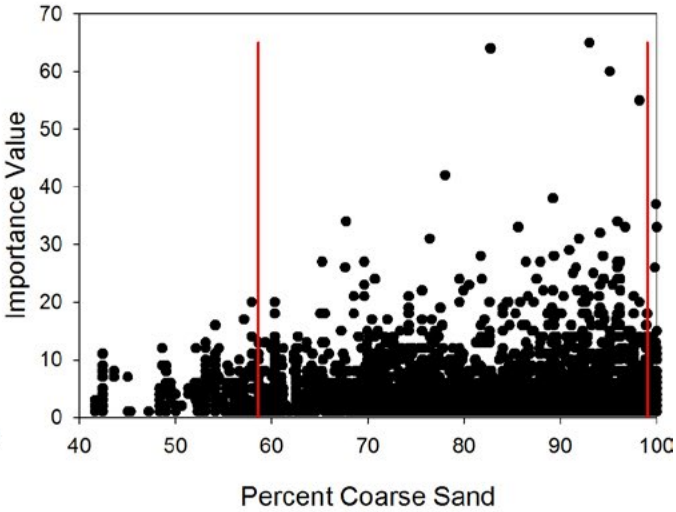


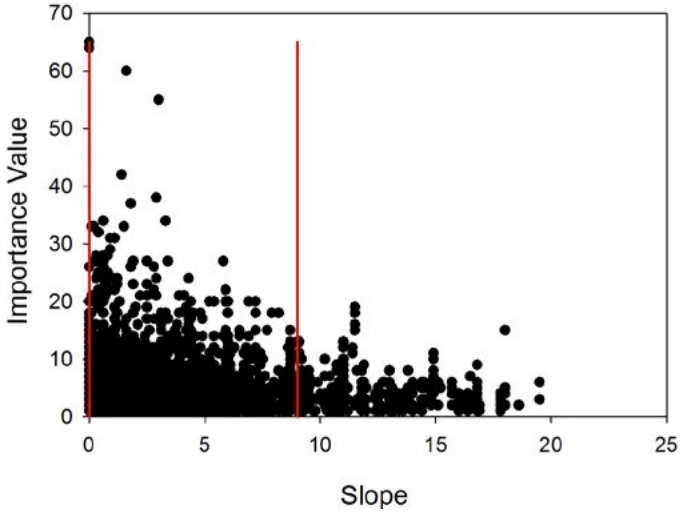
Quercus rubra (northern red oak)
Soil and Topographic Parameters







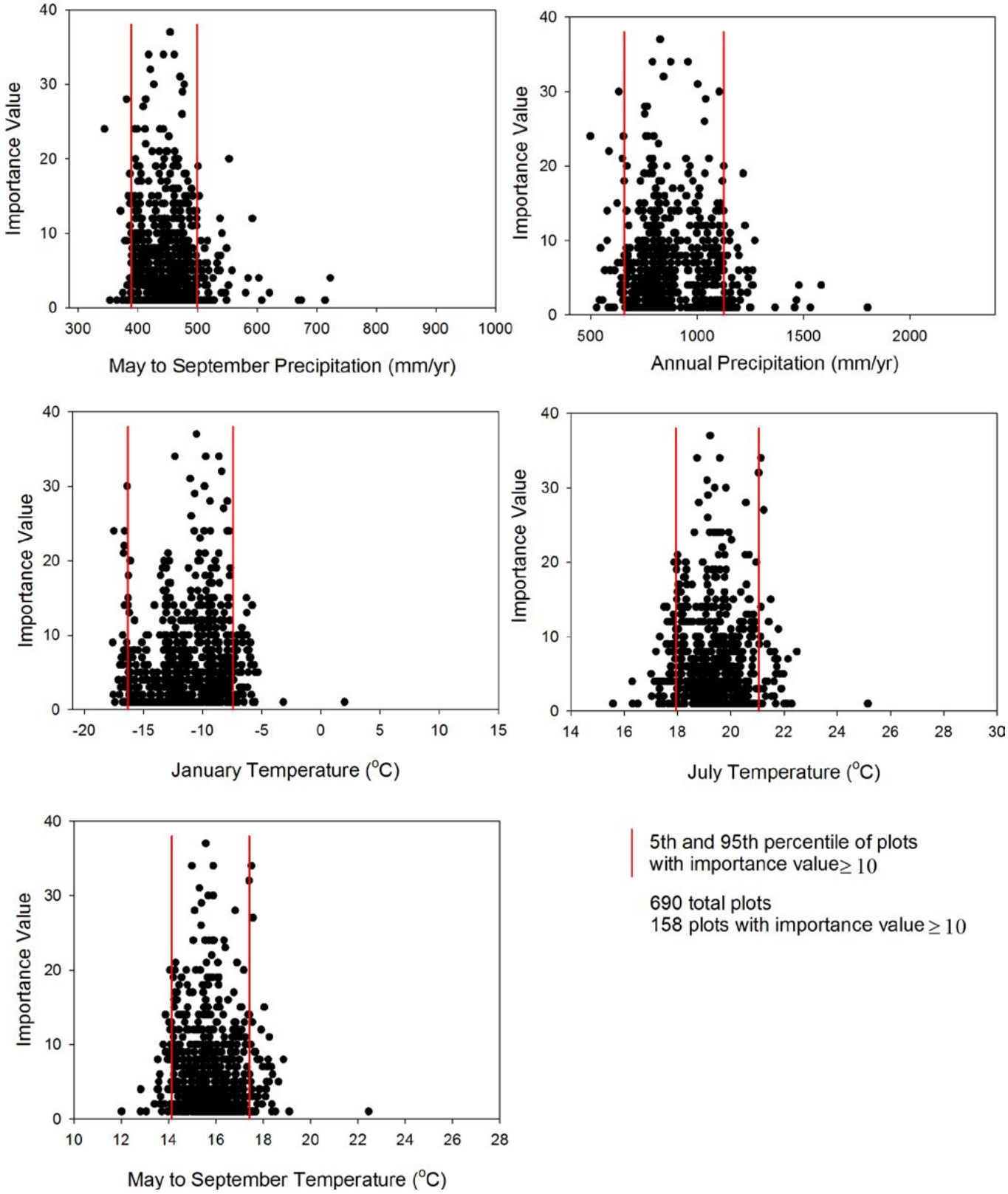




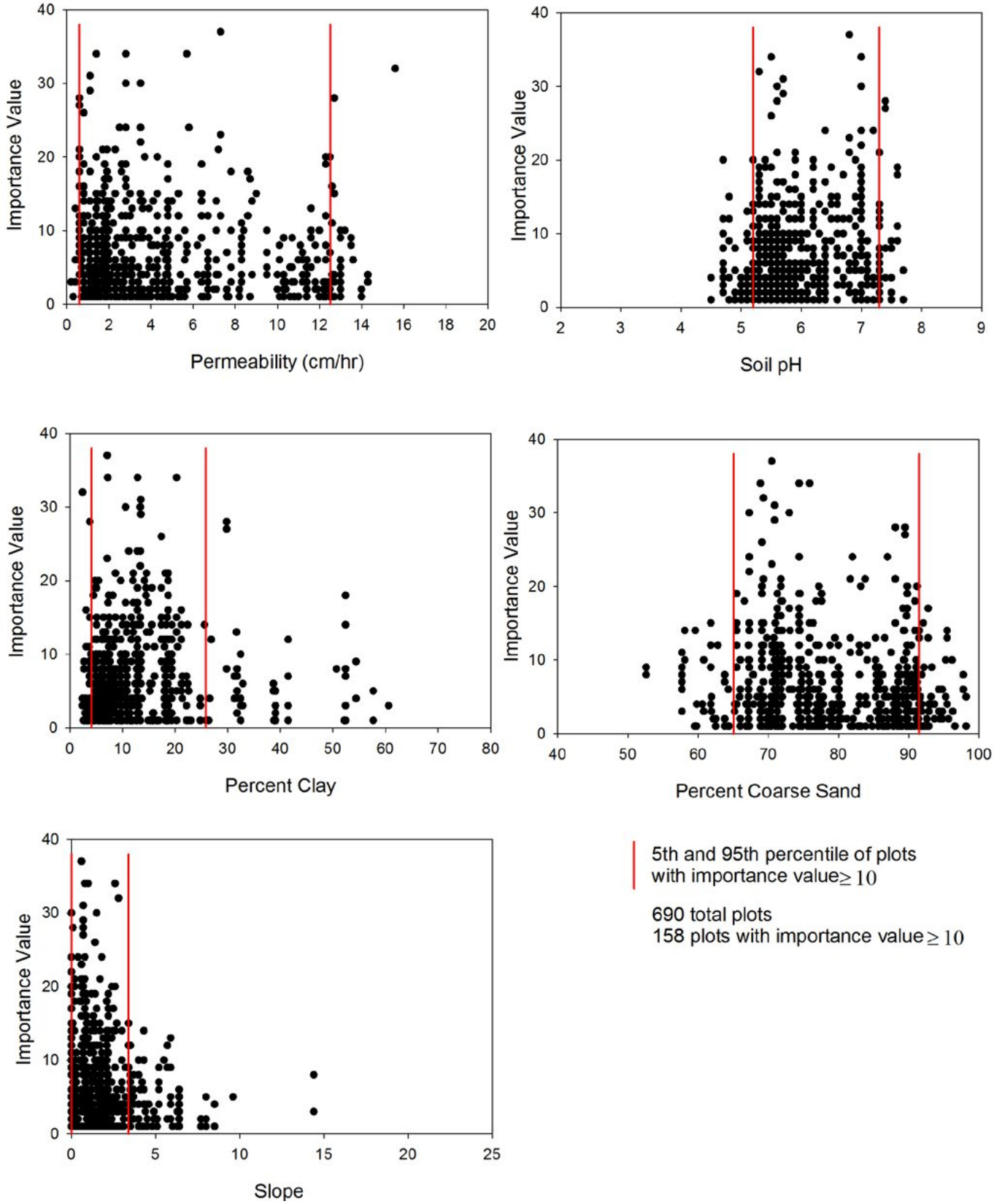
5th and 95th percentile of plots with importance value ≥ 10

4207 total plots
438 plots with importance value ≥ 10

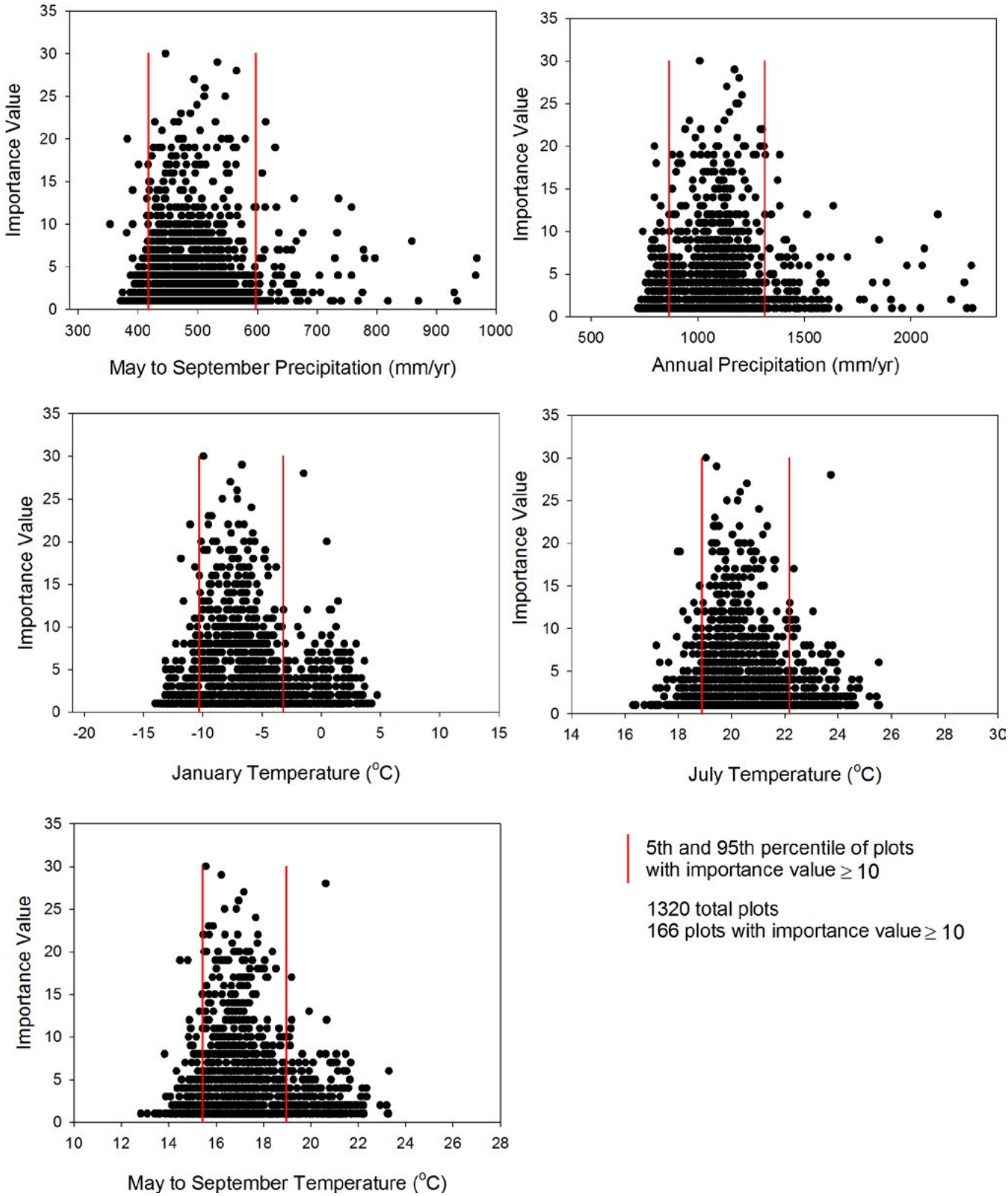
Thuja occidentalis - northern white cedar - climate parameters



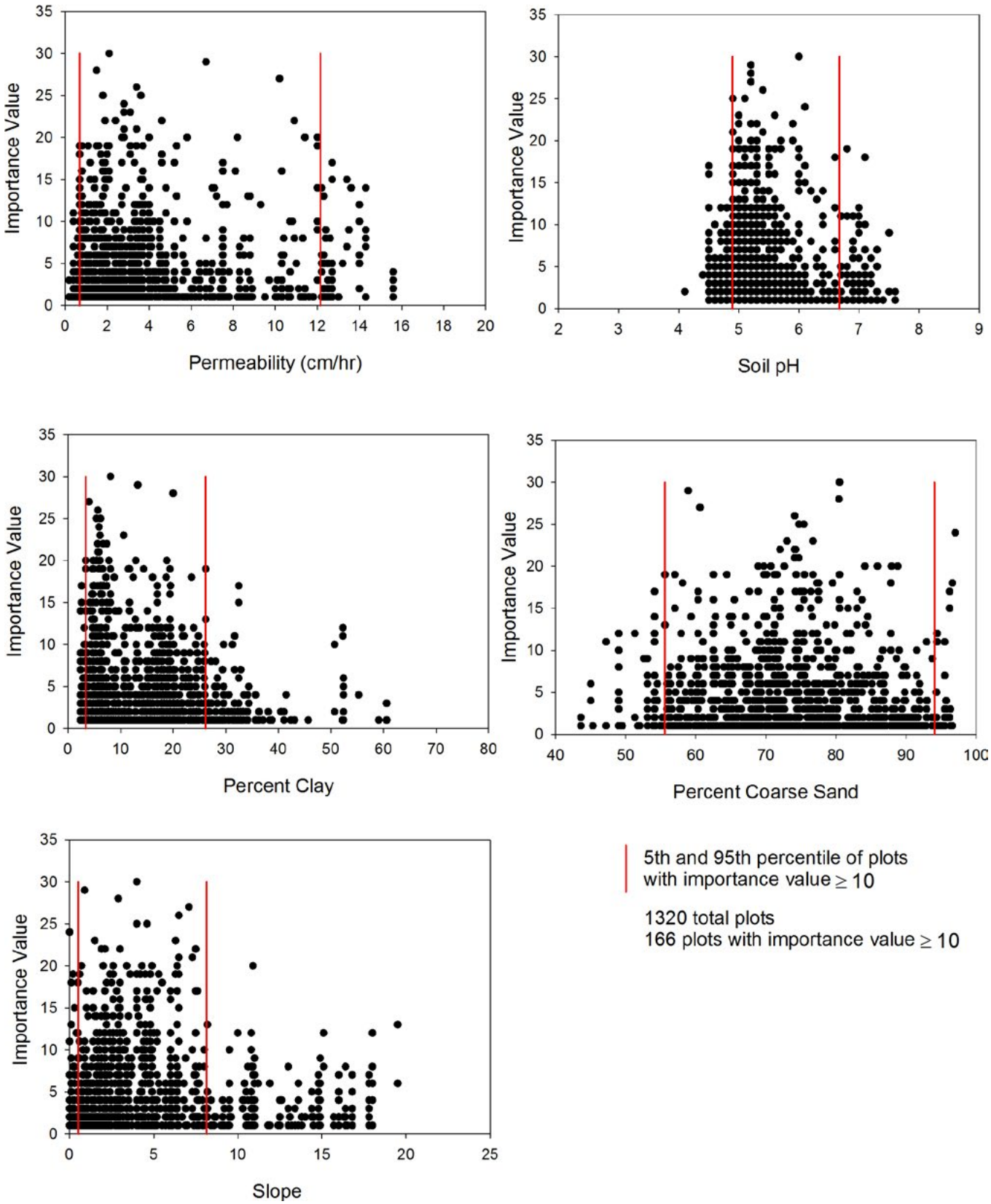
Thuja occidentalis - northern white cedar - soil and topographic parameters



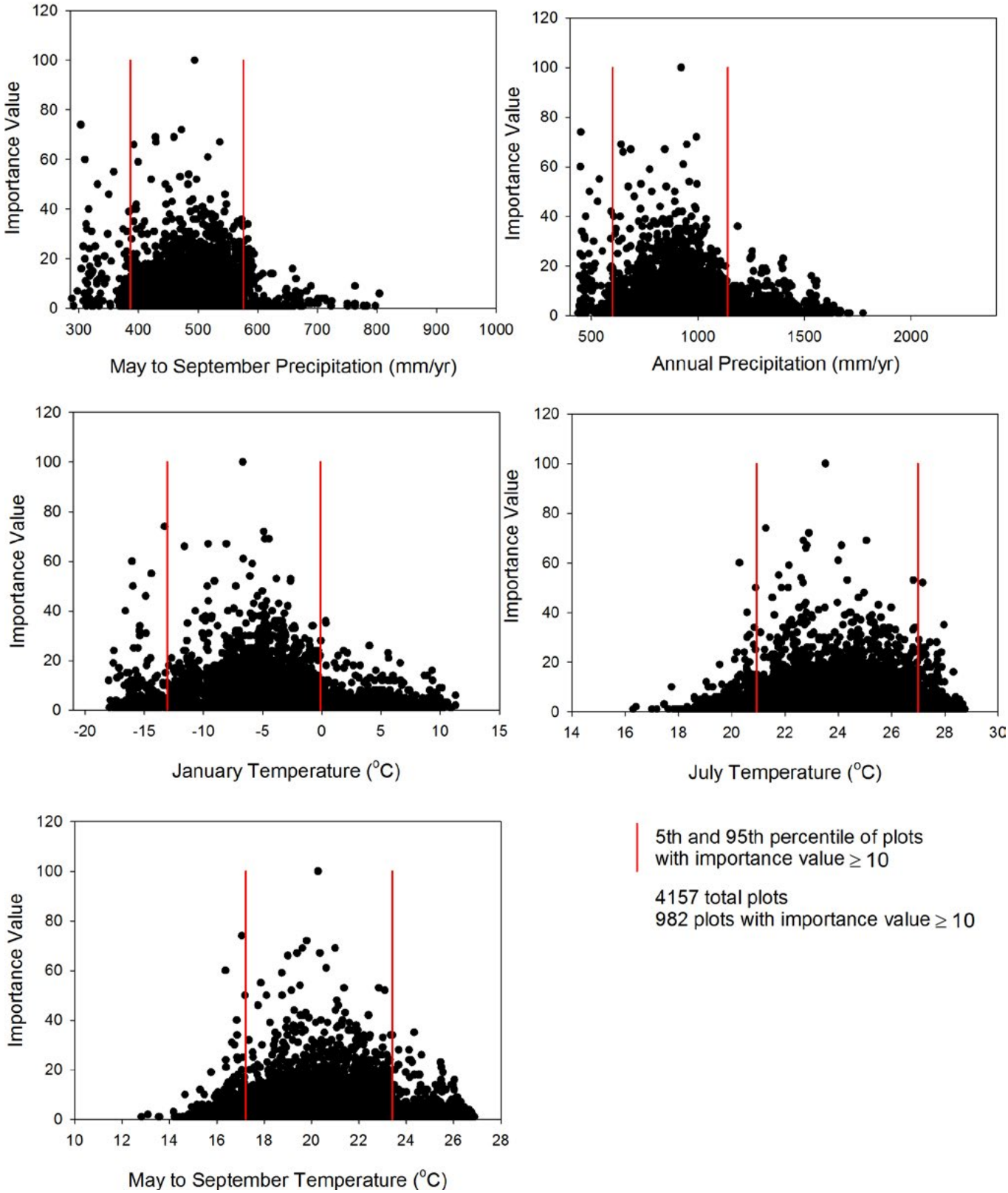
Tsuga canadensis (eastern hemlock) Climate Parameters



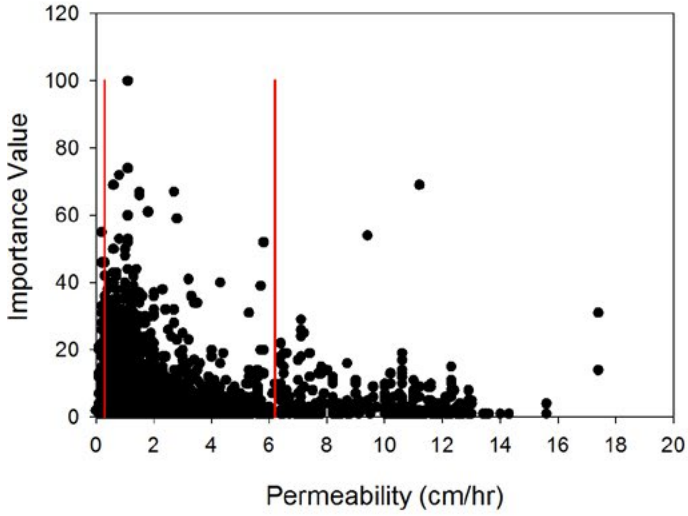
Tsuga canadensis (eastern hemlock)
Soil and Topographic Parameters

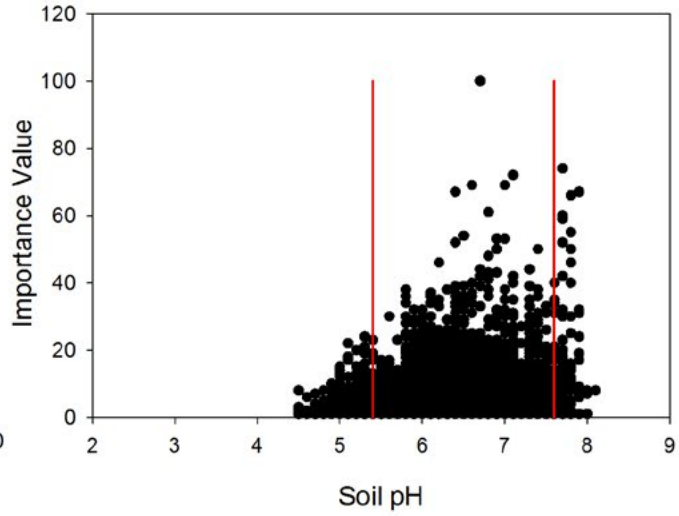


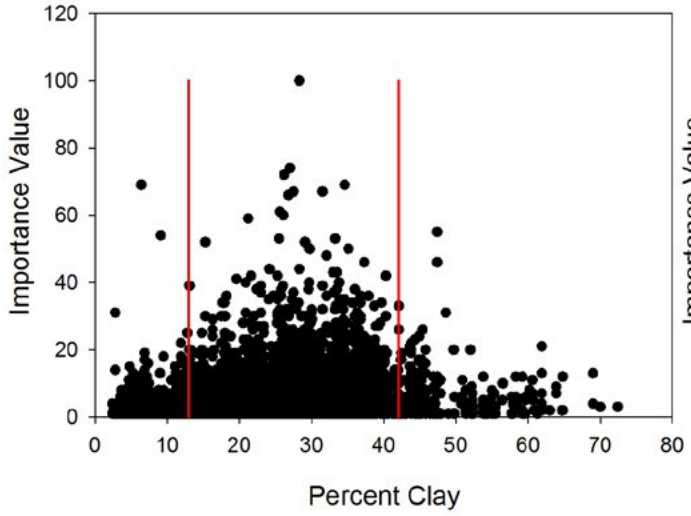
Ulmus americana (American elm)
Climate Parameters

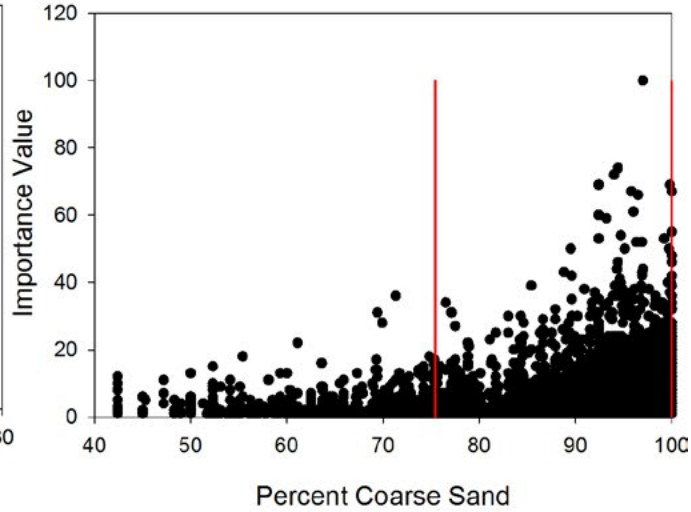


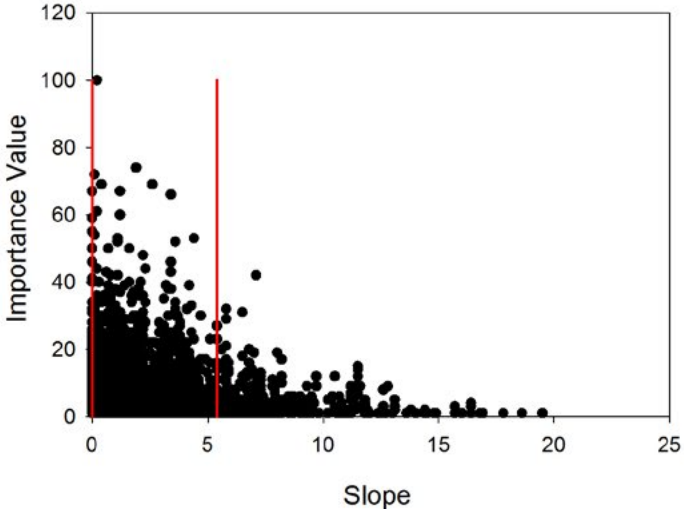
Ulmus americana (American elm)
Soil and Topographic Parameters











5th and 95th percentile of plots with importance value ≥ 10

4157 total plots
982 plots with importance value ≥ 10

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