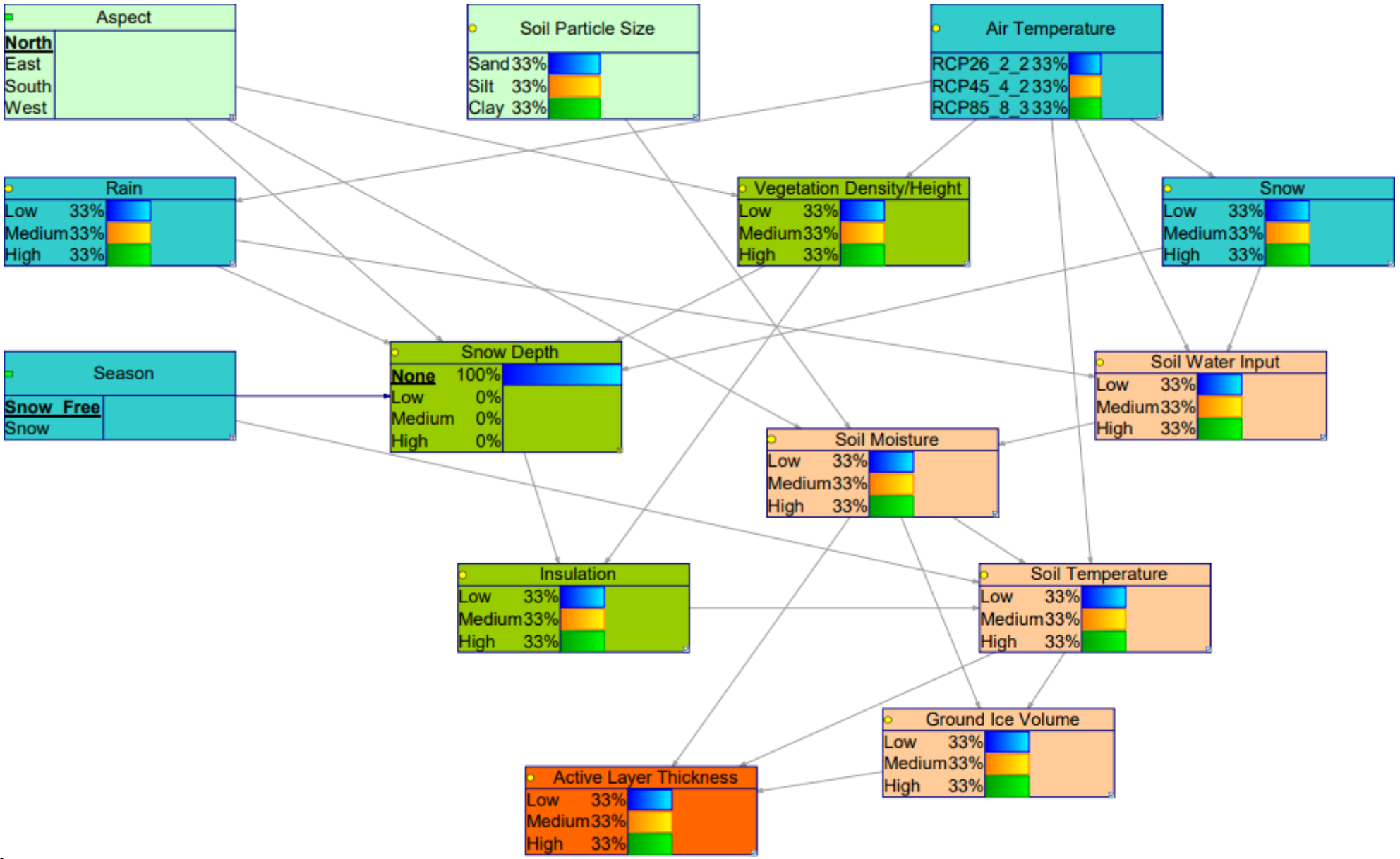
Appendix B

Pre-Validation, Expert Assessment Validation, and Evaluation Prognosis and Diagnosis Experiments

Pre-Validation

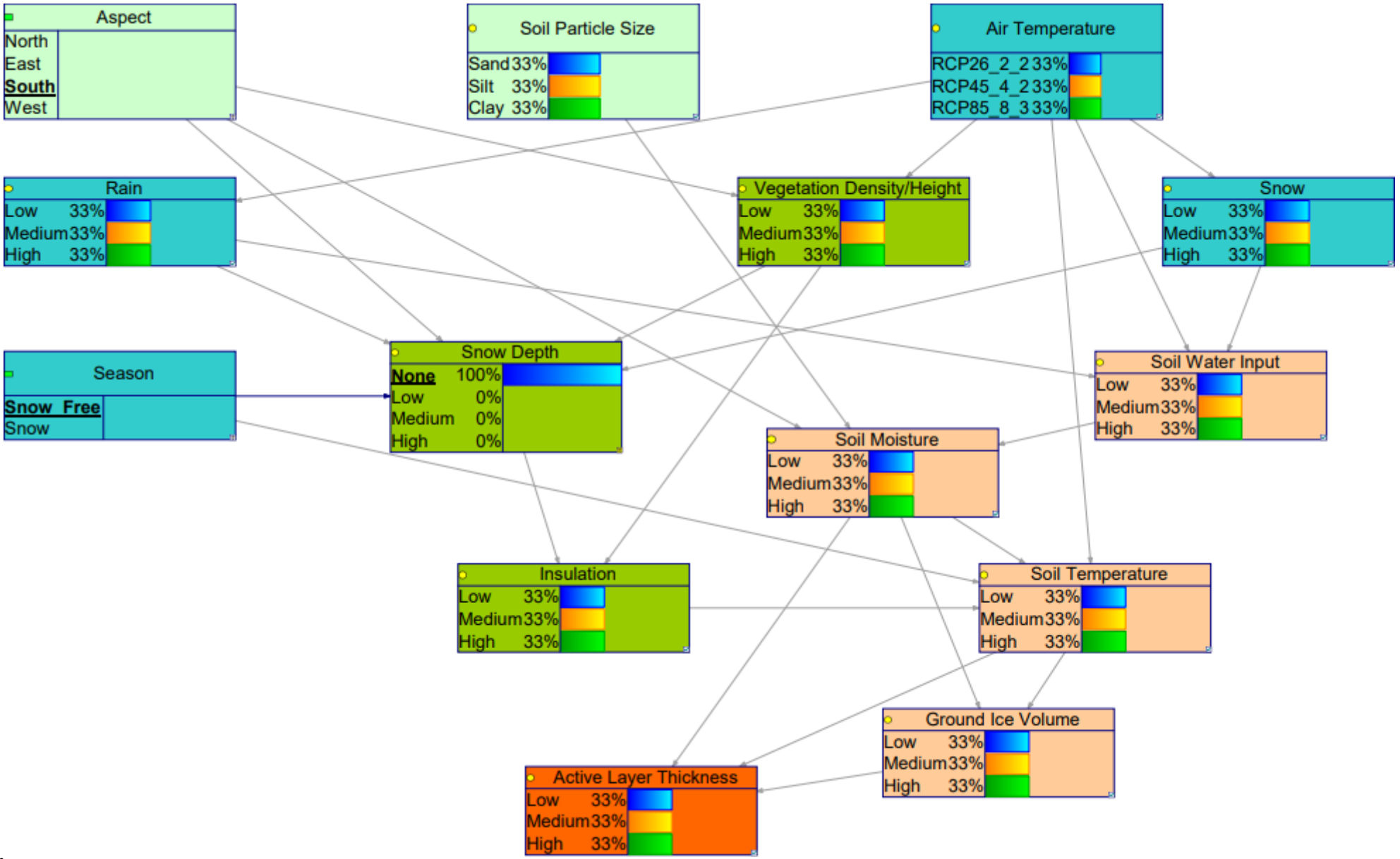
Prognosis



Aspect = North

Season = Snow Free

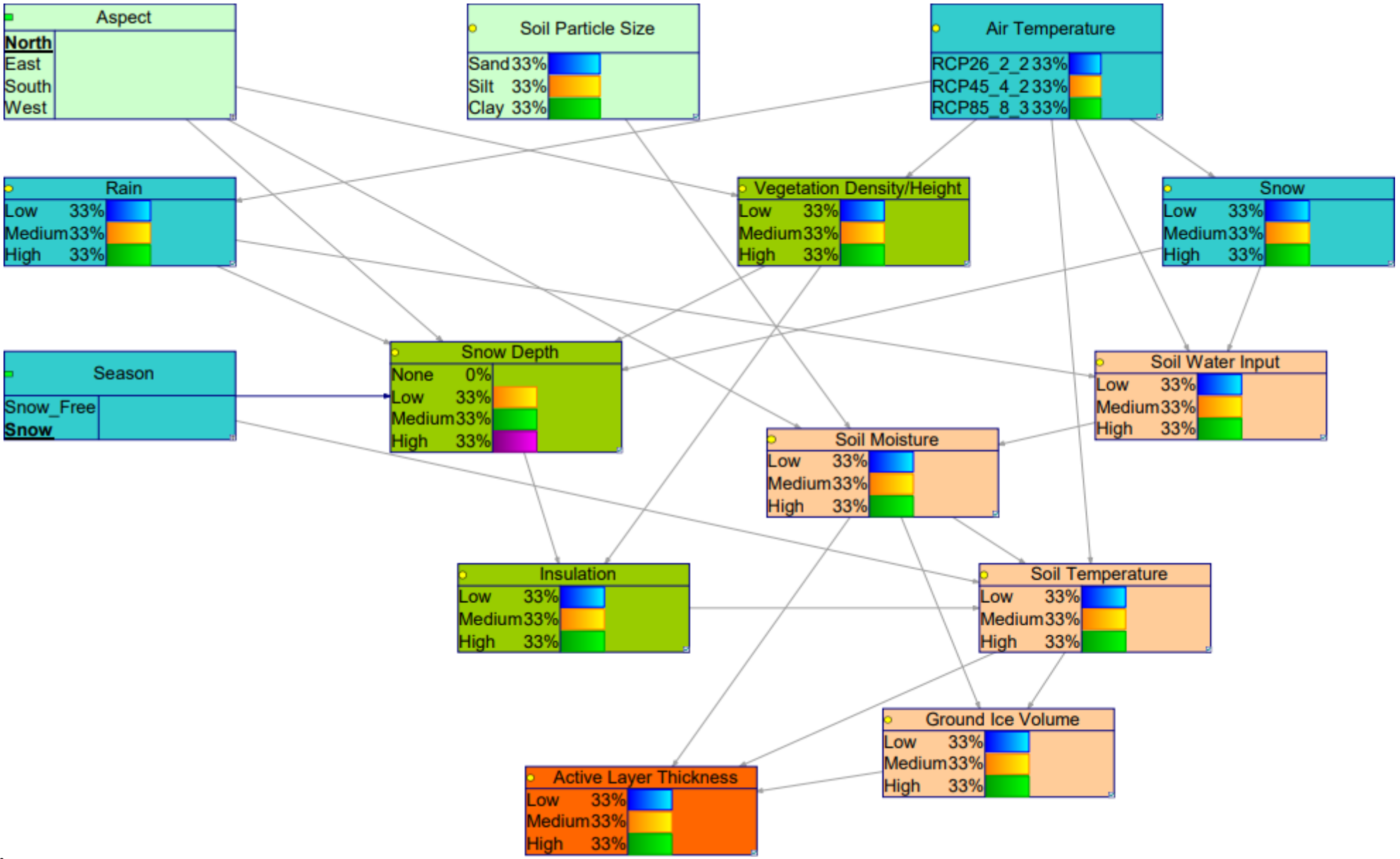
Nodes Informed: None



Aspect = South

Season = Snow Free

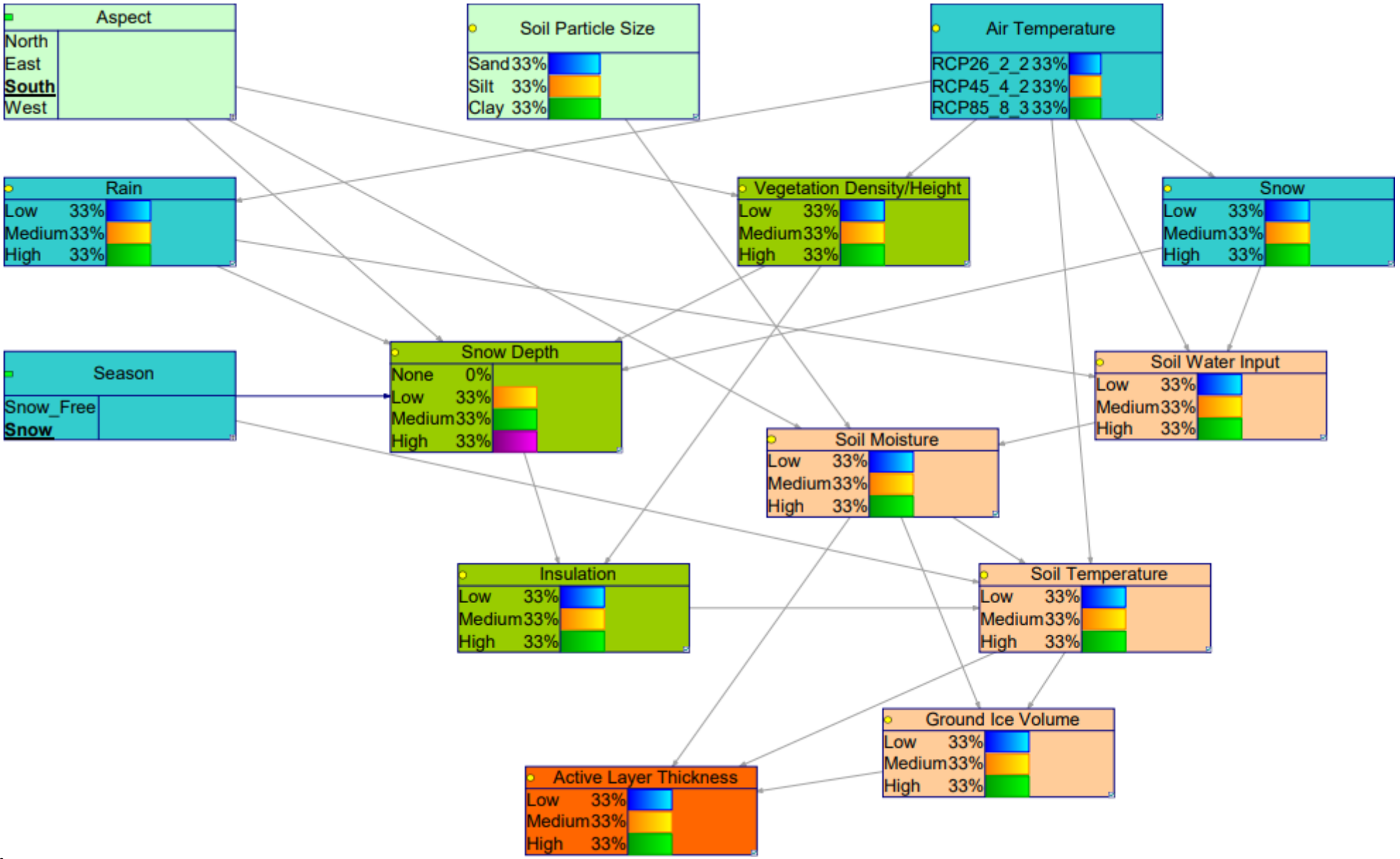
Nodes Informed: None



Aspect = North

Season = Snow

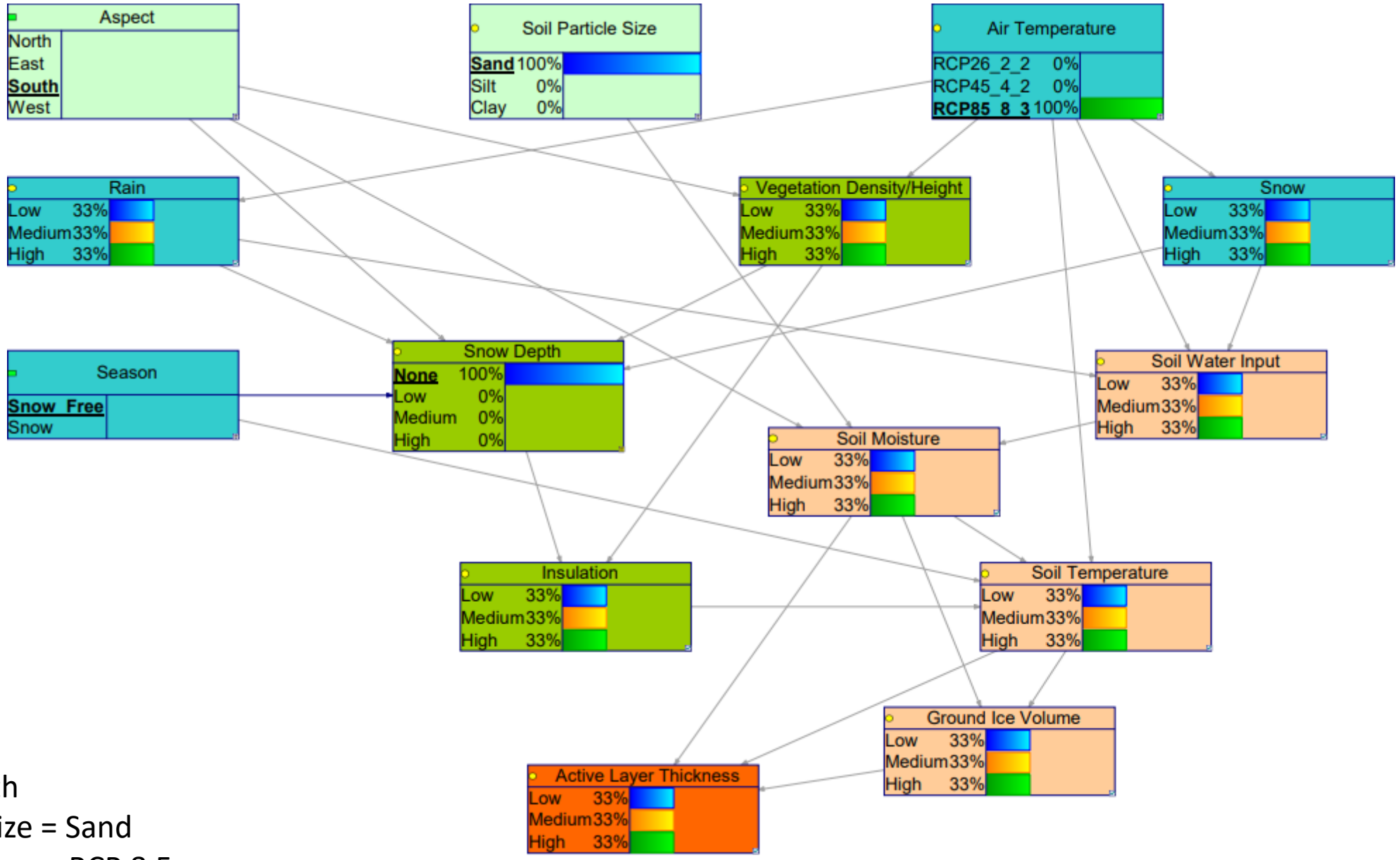
Nodes Informed: None



Aspect = South

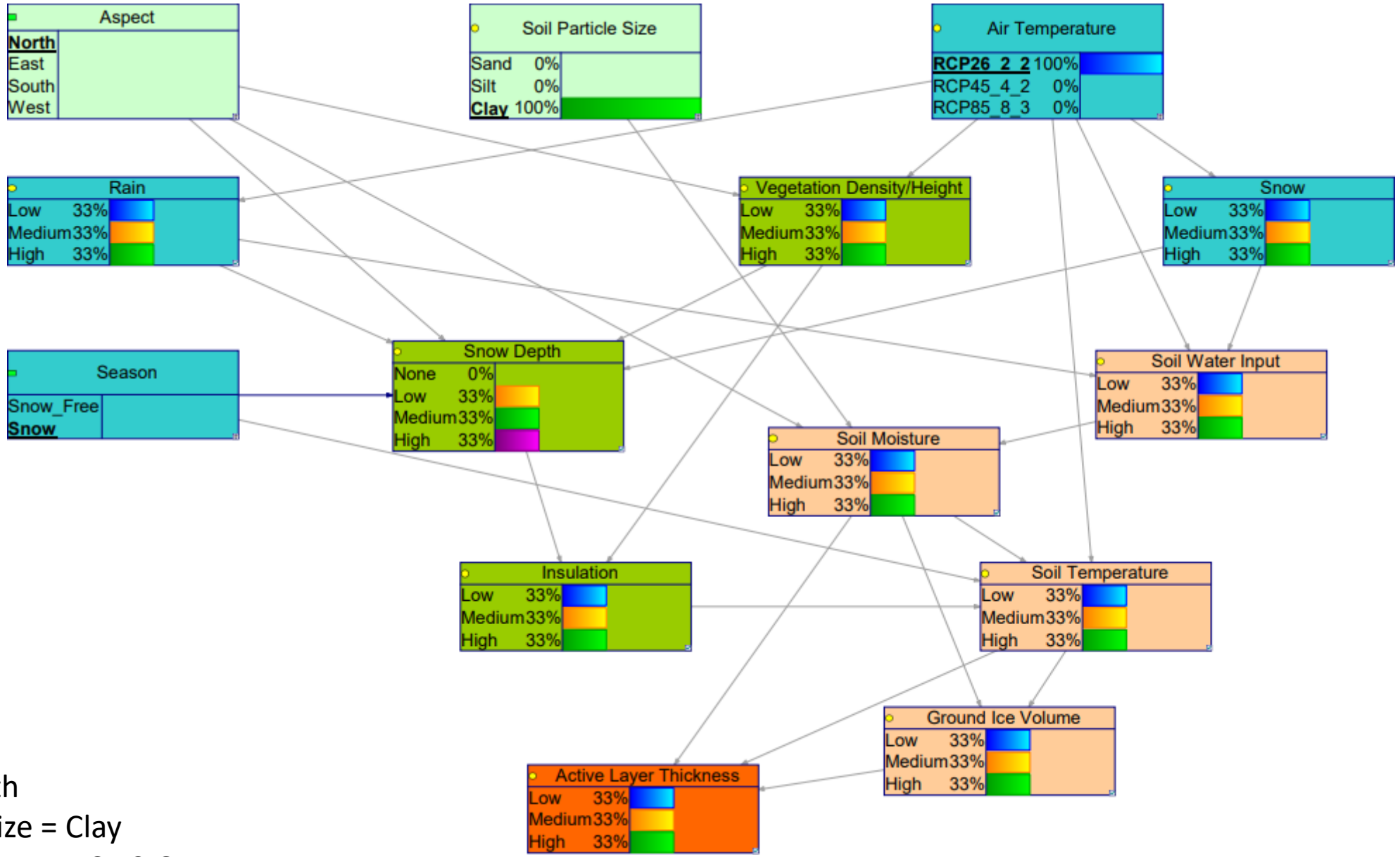
Season = Snow

Nodes Informed: None



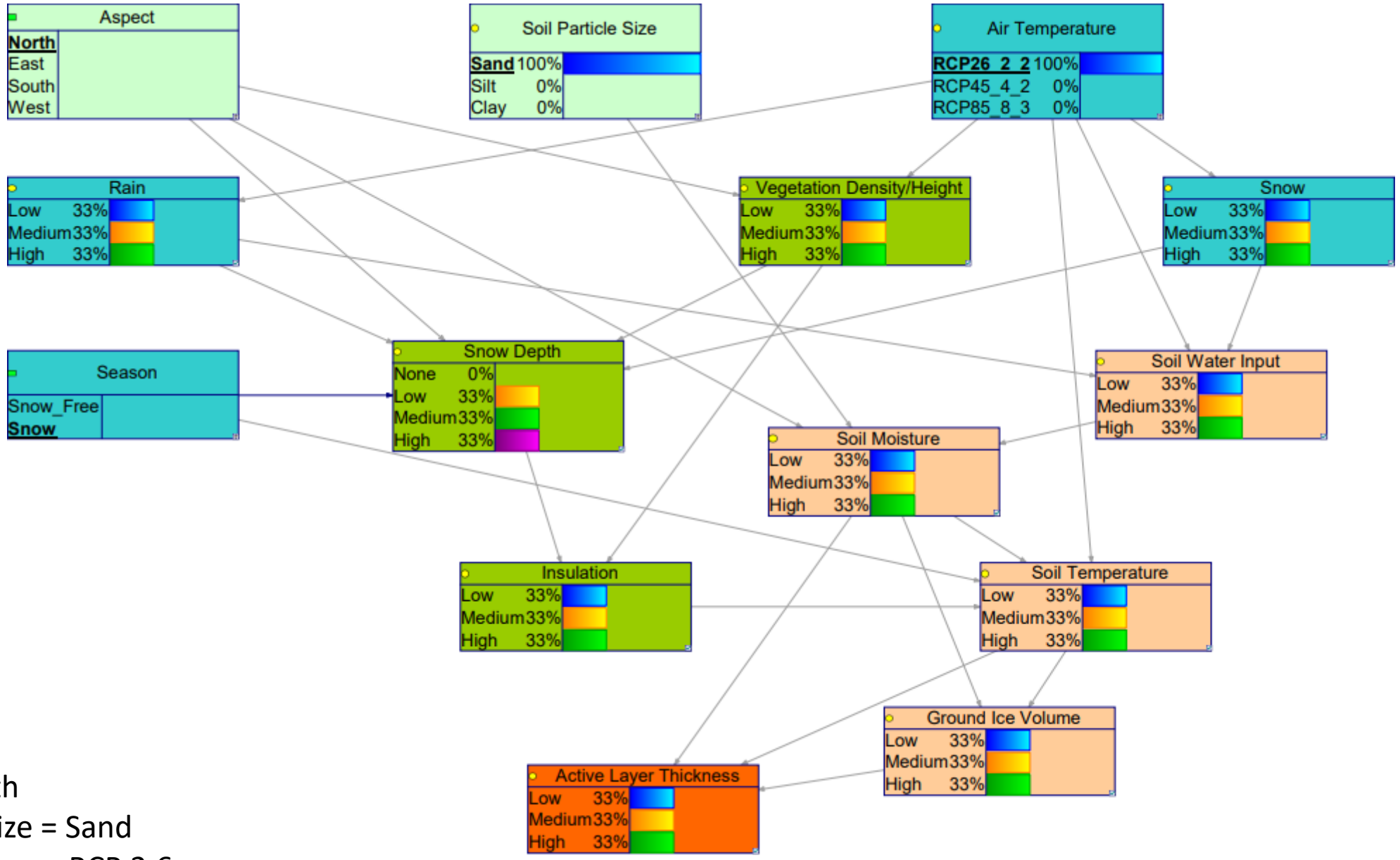
Aspect = South
Soil Particle Size = Sand
Air Temperature = RCP 8.5
Season = Snow Free

Nodes Informed: None



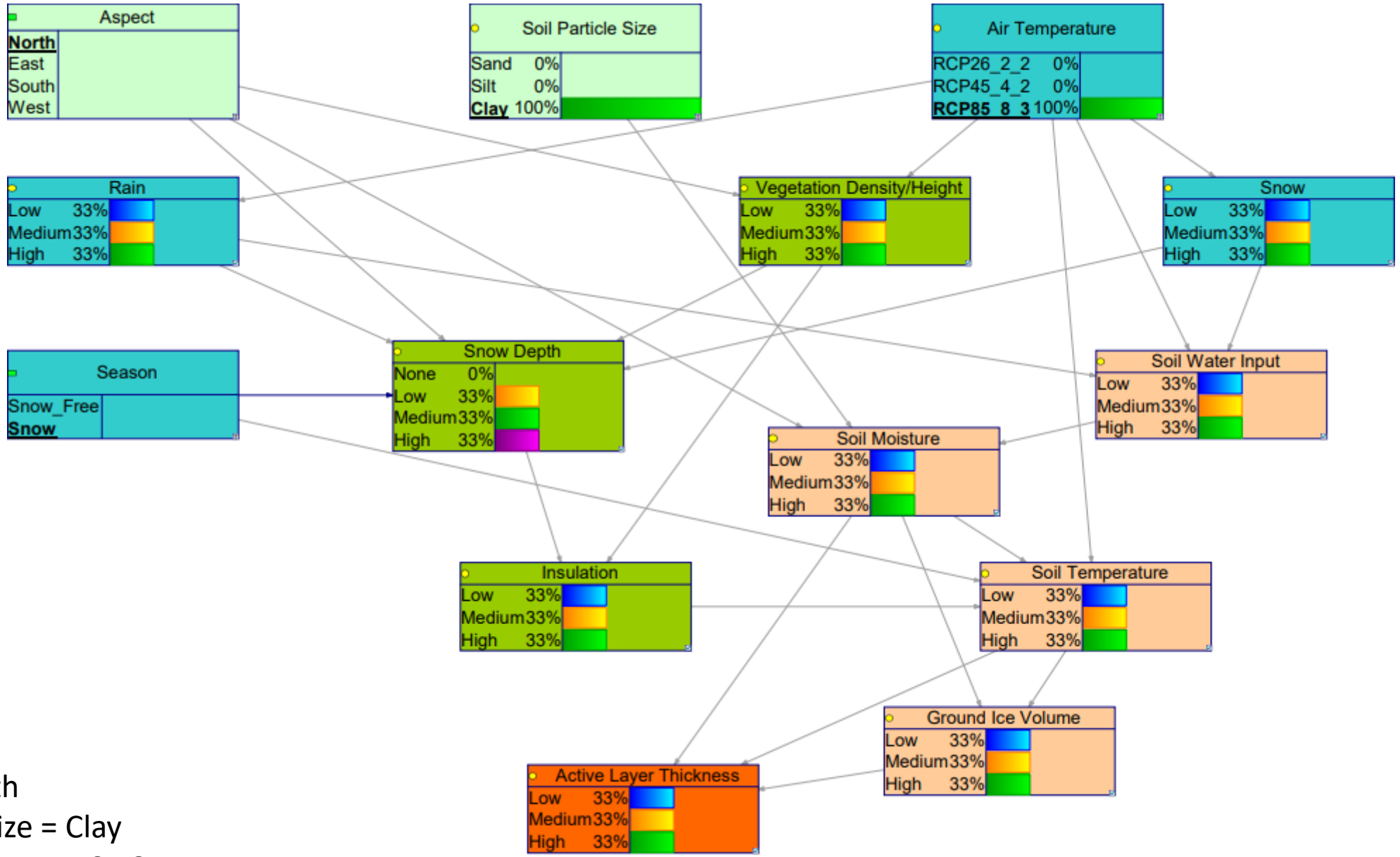
Aspect = North
Soil Particle Size = Clay
Air Temperature = RCP 2.6
Season = Snow

Nodes Informed: None



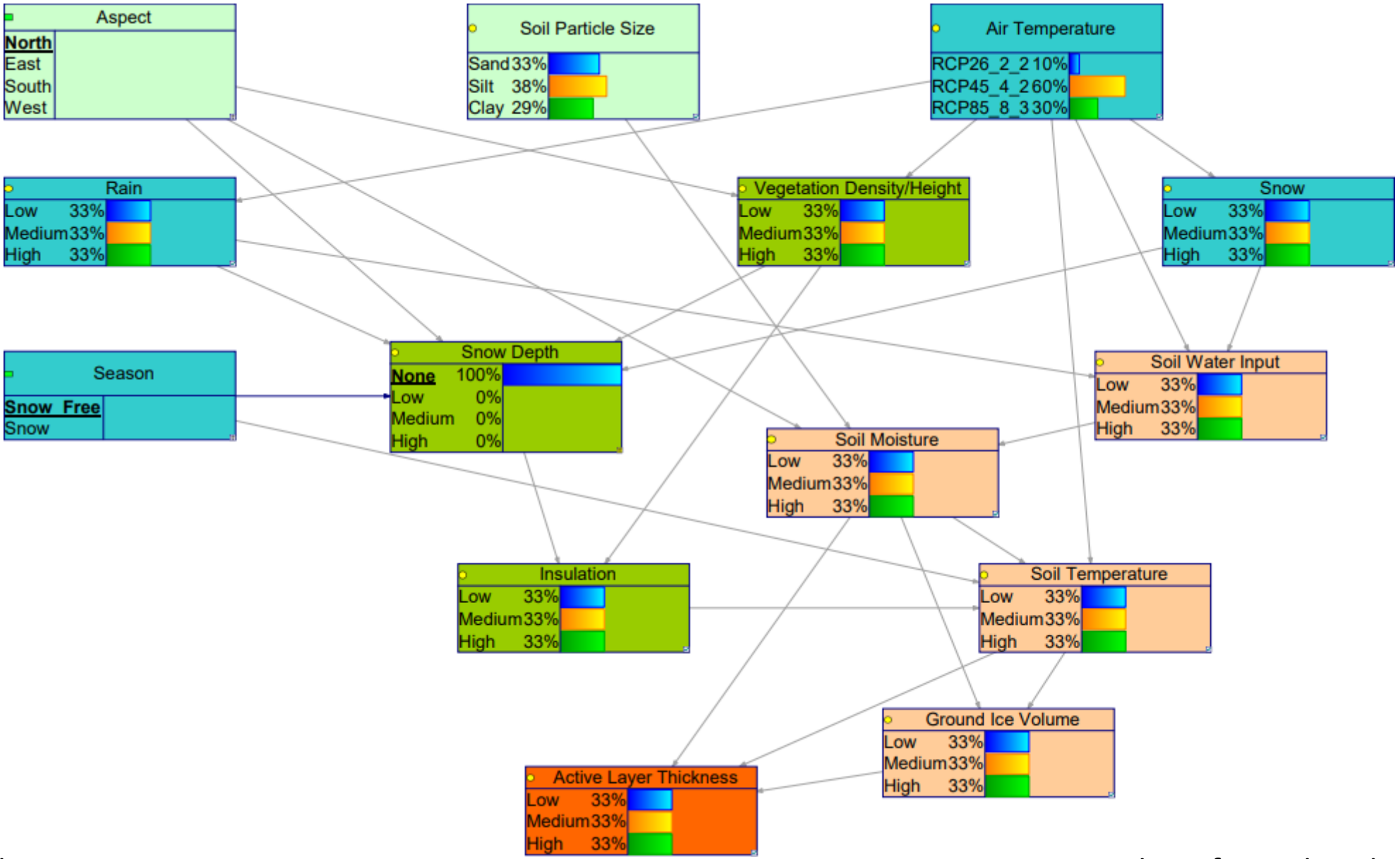
Aspect = North
Soil Particle Size = Sand
Air Temperature = RCP 2.6
Season = Snow

Nodes Informed: None



Aspect = North
Soil Particle Size = Clay
Air Temperature = RCP 8.5
Season = Snow

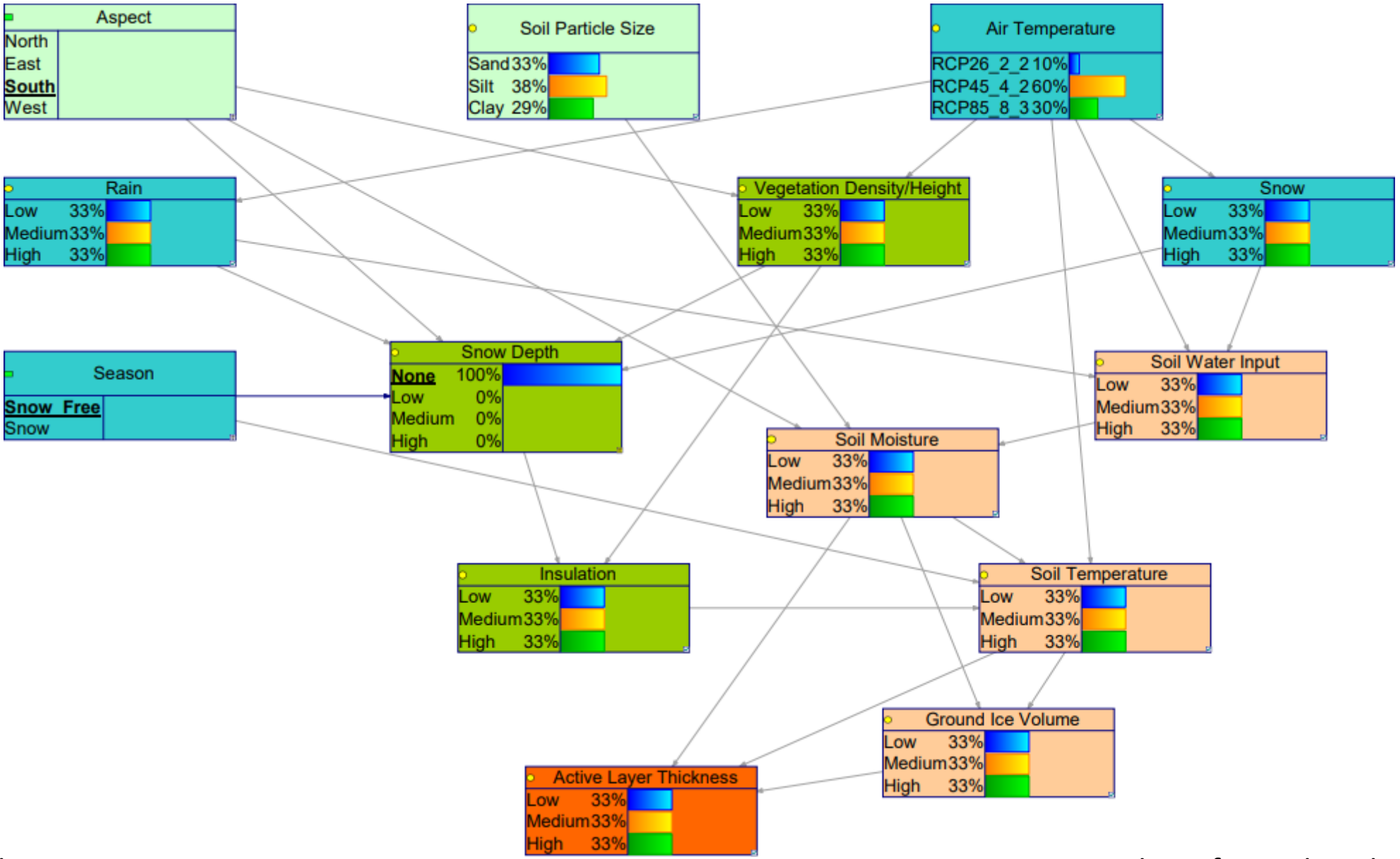
Nodes Informed: None



Aspect = North

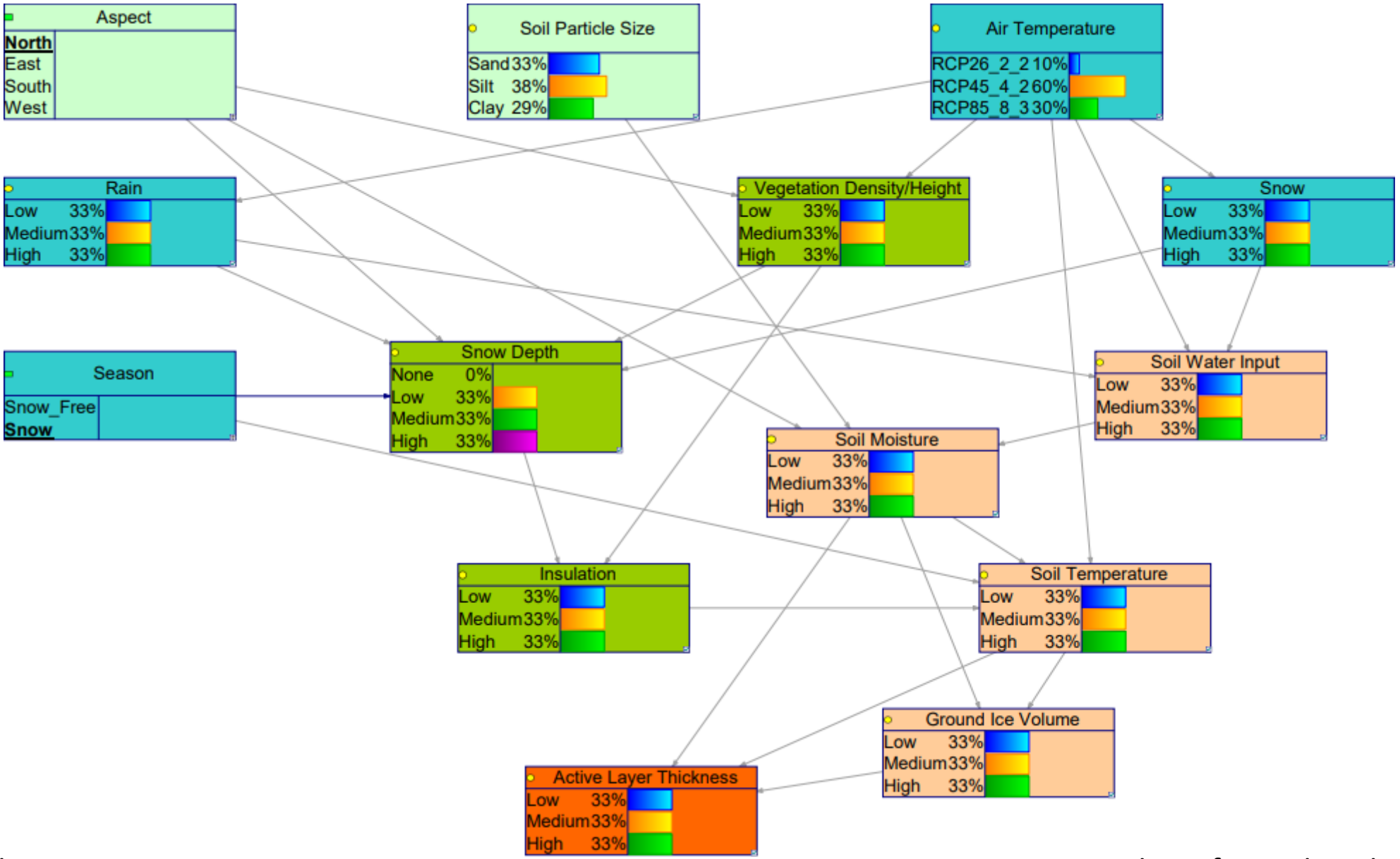
Season = Snow Free

Nodes Informed: Soil Particle Size, Air Temperature



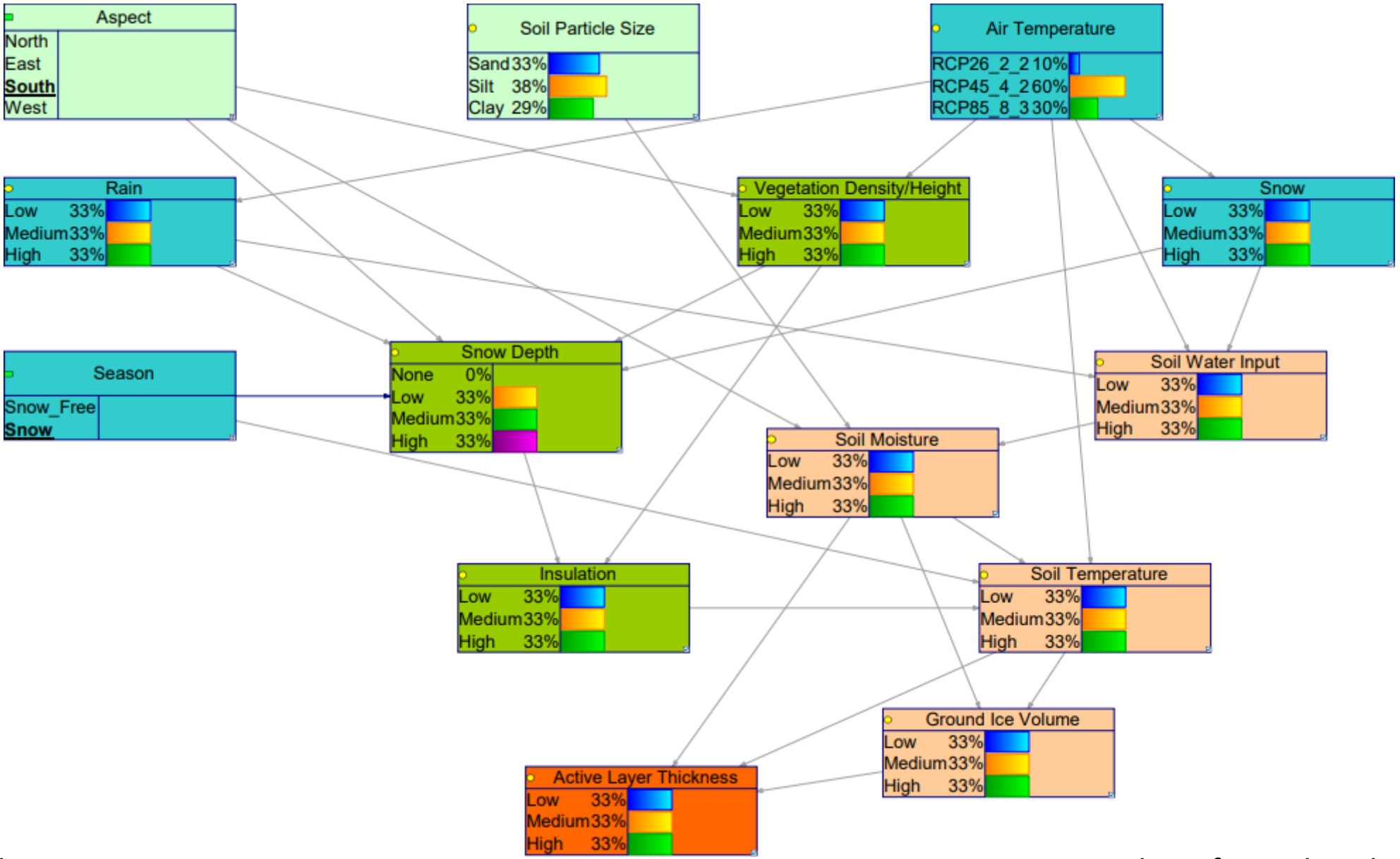
Aspect = South
Season = Snow Free

Nodes Informed: Soil Particle Size, Air Temperature



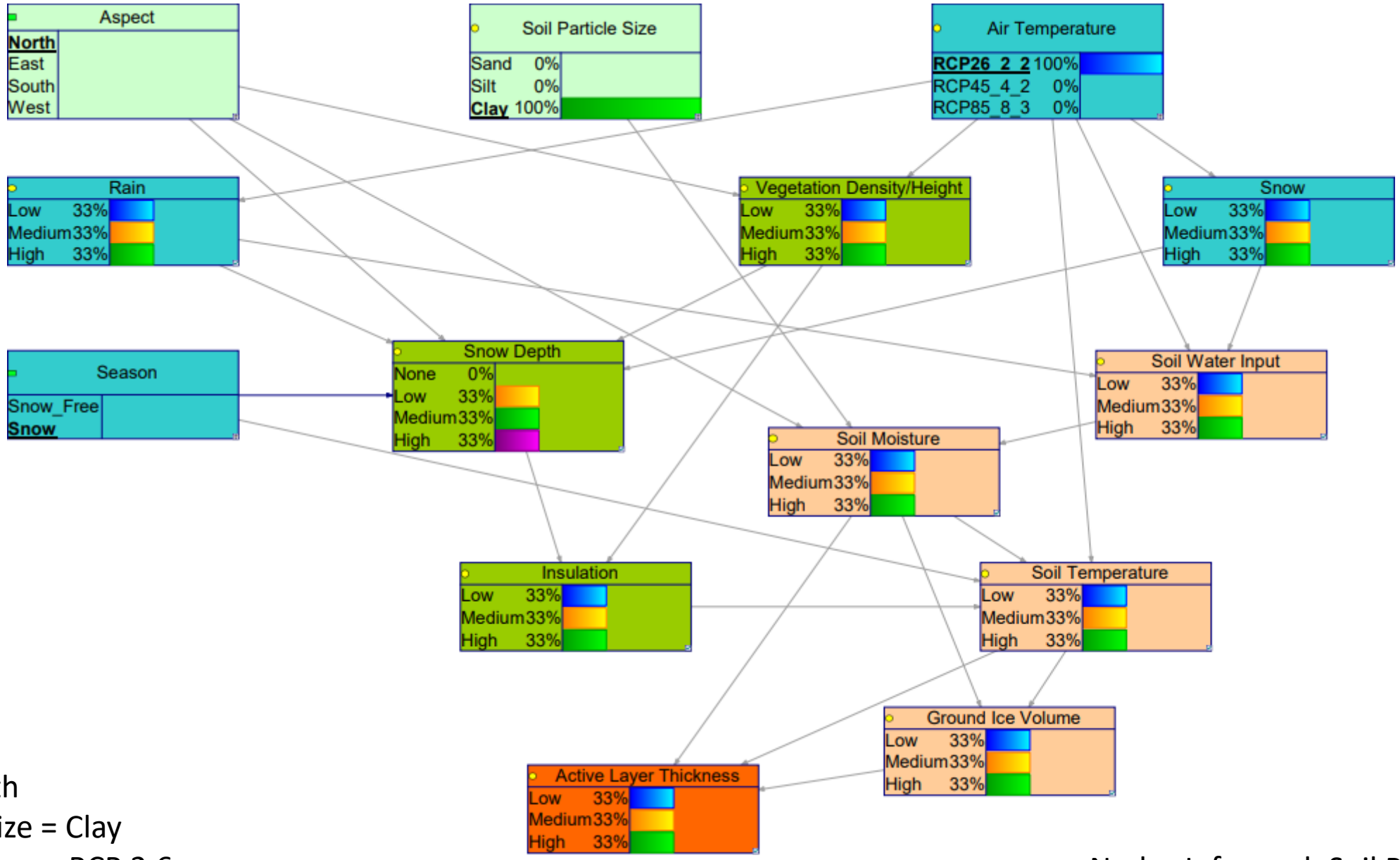
Aspect = North
Season = Snow

Nodes Informed: Soil Particle Size, Air Temperature



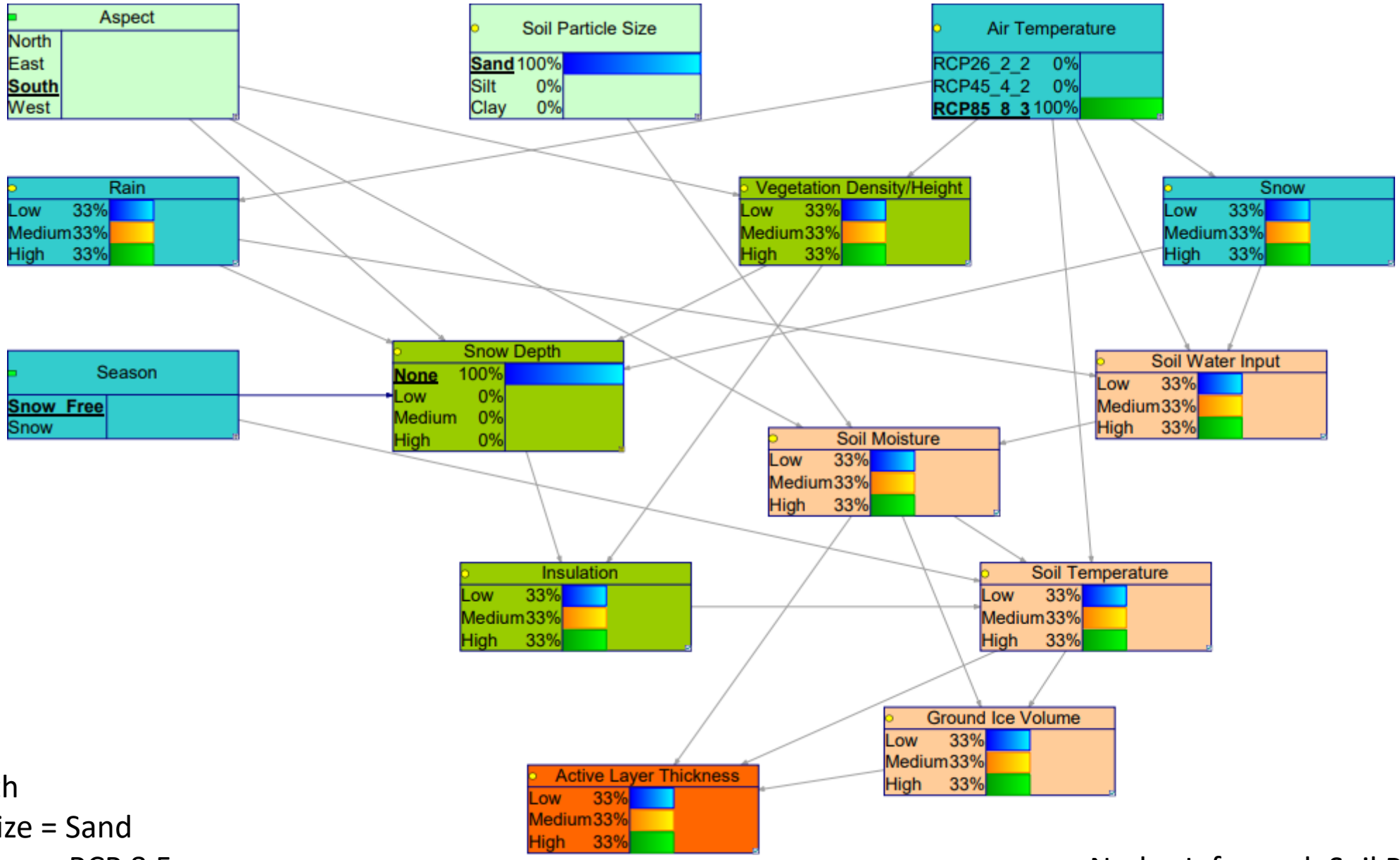
Aspect = South
Season = Snow

Nodes Informed: Soil Particle Size, Air Temperature



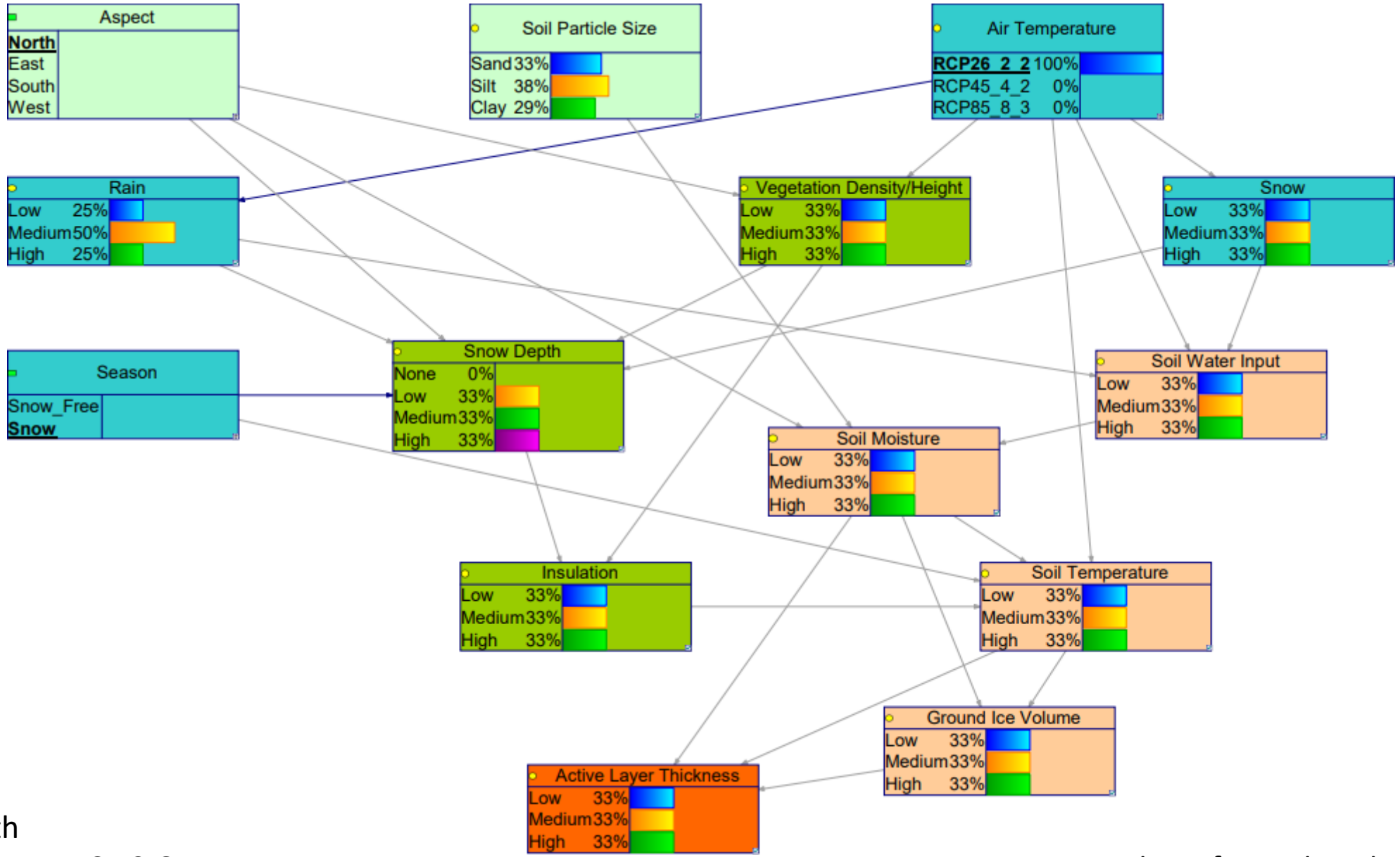
Aspect = North
Soil Particle Size = Clay
Air Temperature = RCP 2.6
Season = Snow

Nodes Informed: Soil Particle Size, Air Temperature



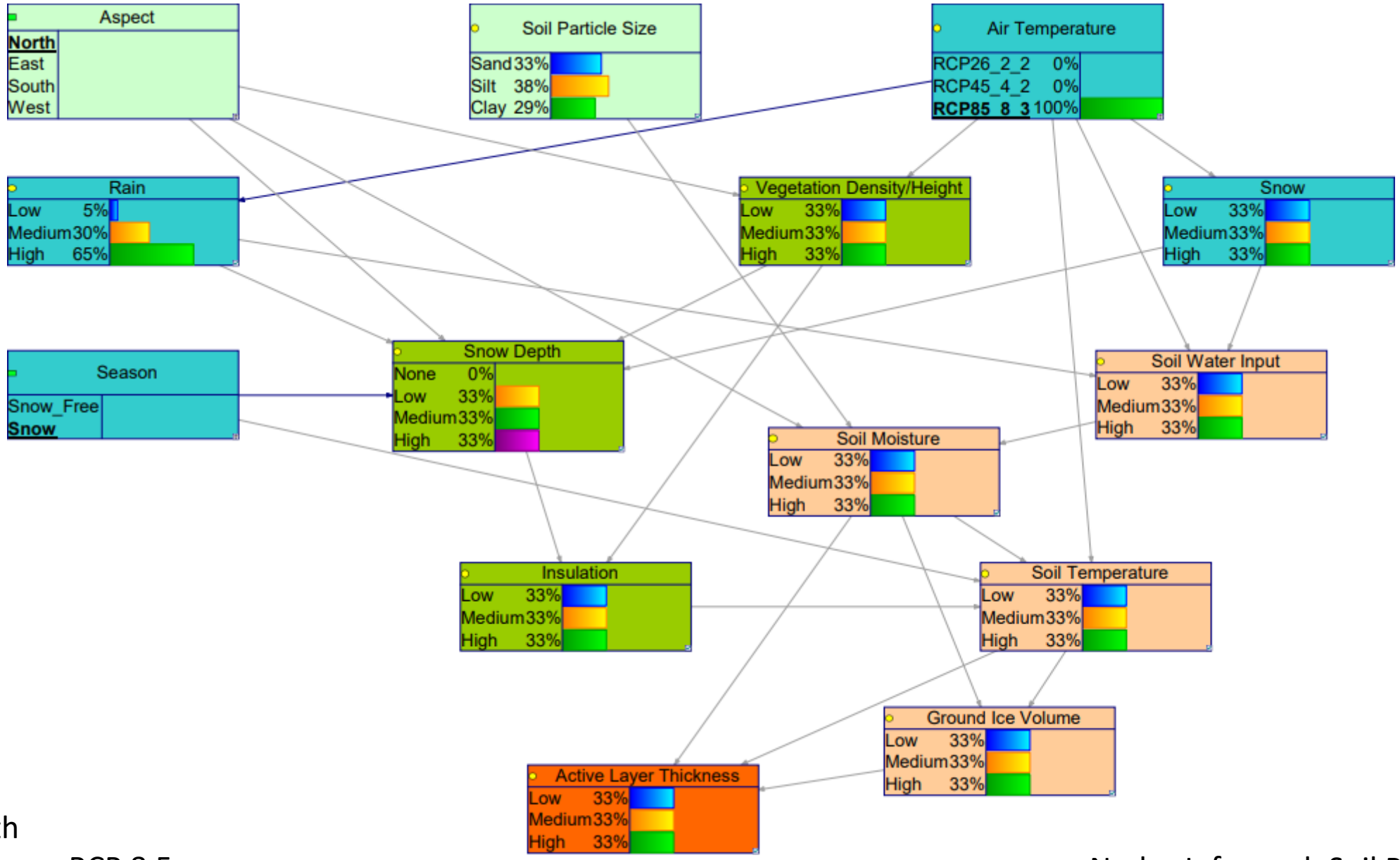
Aspect = South
Soil Particle Size = Sand
Air Temperature = RCP 8.5
Season = Snow Free

Nodes Informed: Soil Particle Size, Air Temperature



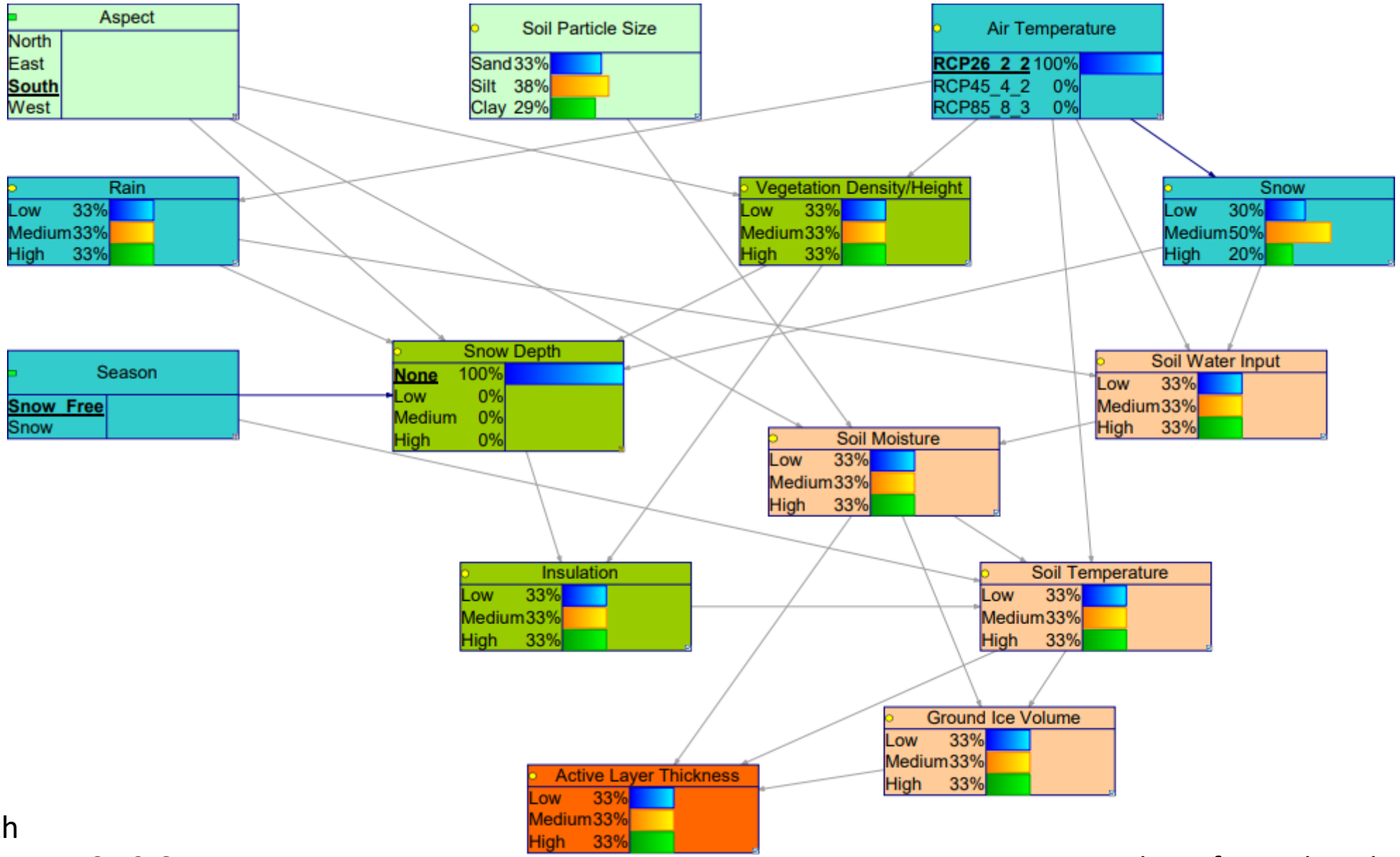
Aspect = North
Air Temperature = RCP 2.6
Season = Snow

Nodes Informed: Soil Particle Size, Air Temperature, Rain



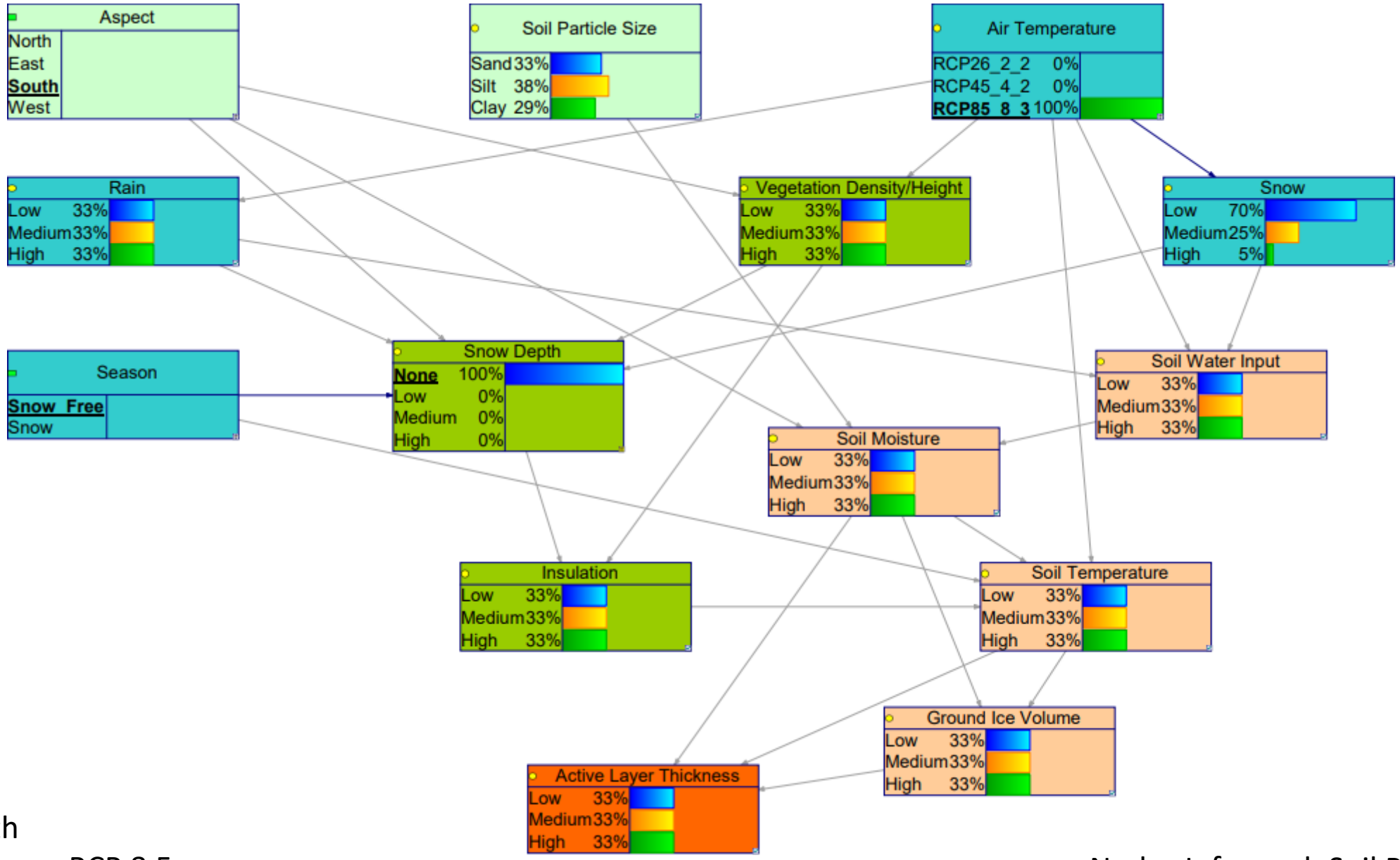
Aspect = North
Air Temperature = RCP 8.5
Season = Snow

Nodes Informed: Soil Particle Size, Air Temperature, Rain



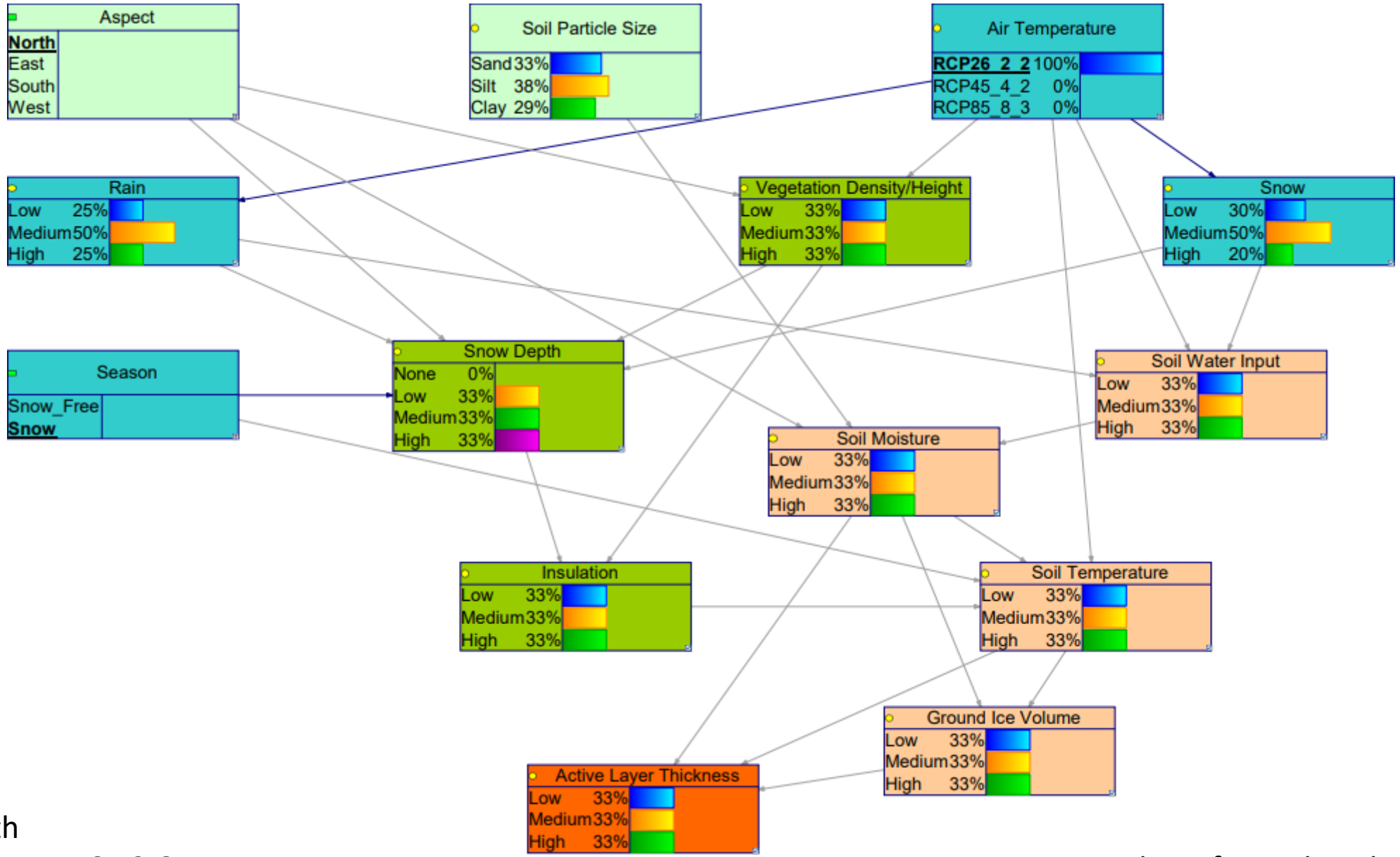
Aspect = South
Air Temperature = RCP 2.6
Season = Snow Free

Nodes Informed: Soil Particle Size, Air Temperature, Snow



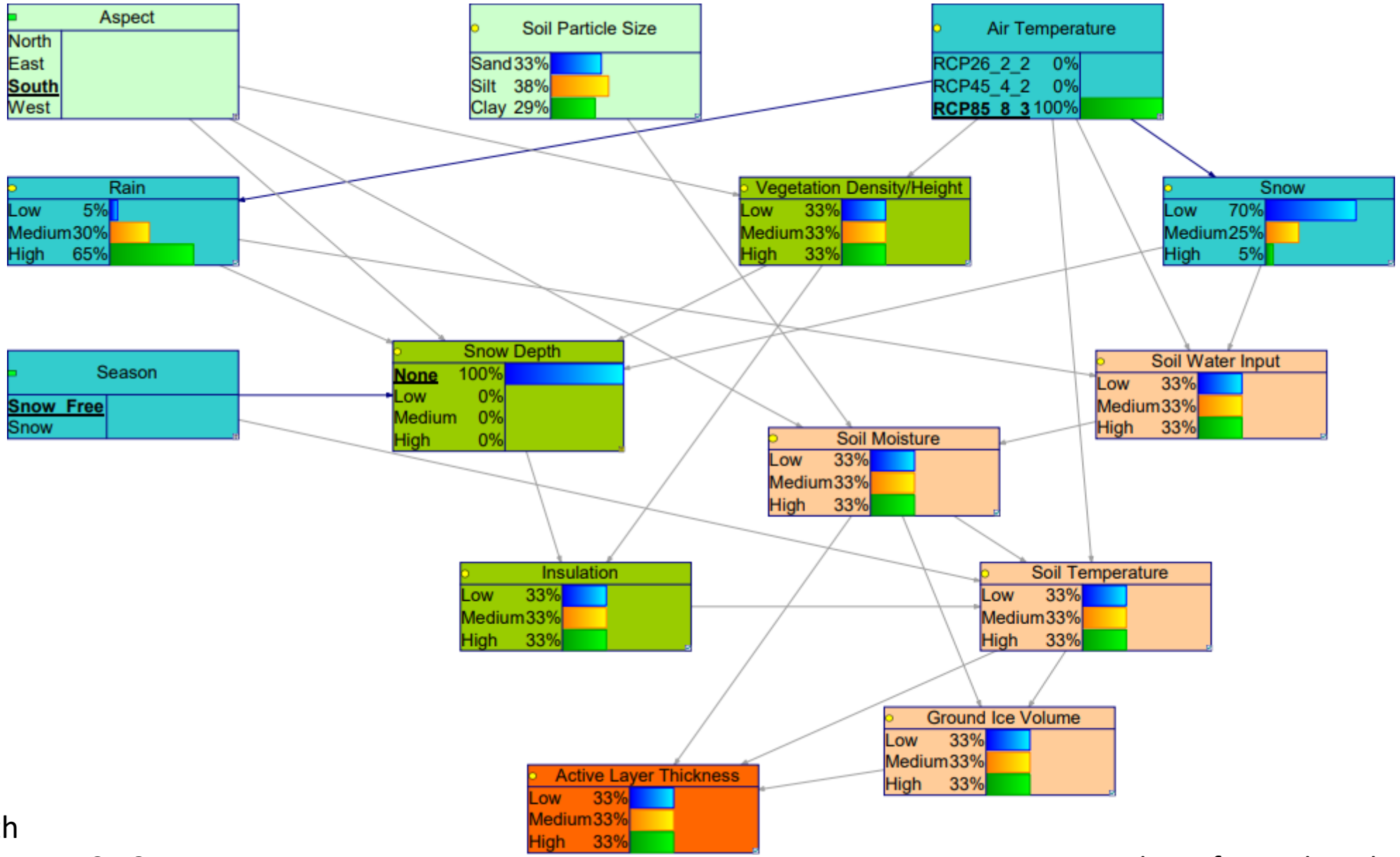
Aspect = South
Air Temperature = RCP 8.5
Season = Snow Free

Nodes Informed: Soil Particle Size, Air Temperature, Snow



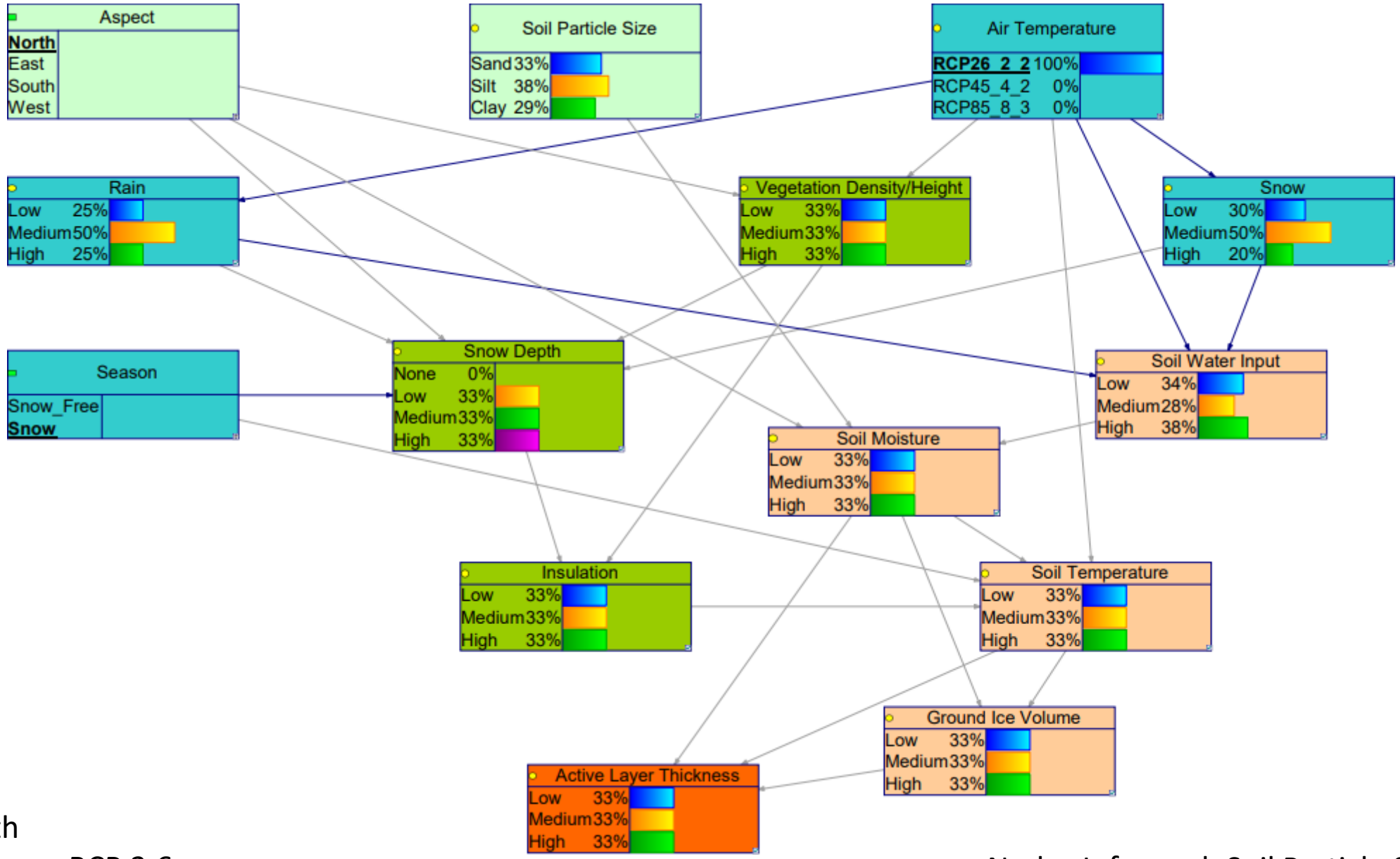
Aspect = North
Air Temperature = RCP 2.6
Season = Snow

Nodes Informed: Soil Particle Size, Air Temperature, Rain, Snow



Aspect = South
Air Temperature = RCP 8.5
Season = Snow Free

Nodes Informed: Soil Particle Size, Air Temperature, Rain, Snow

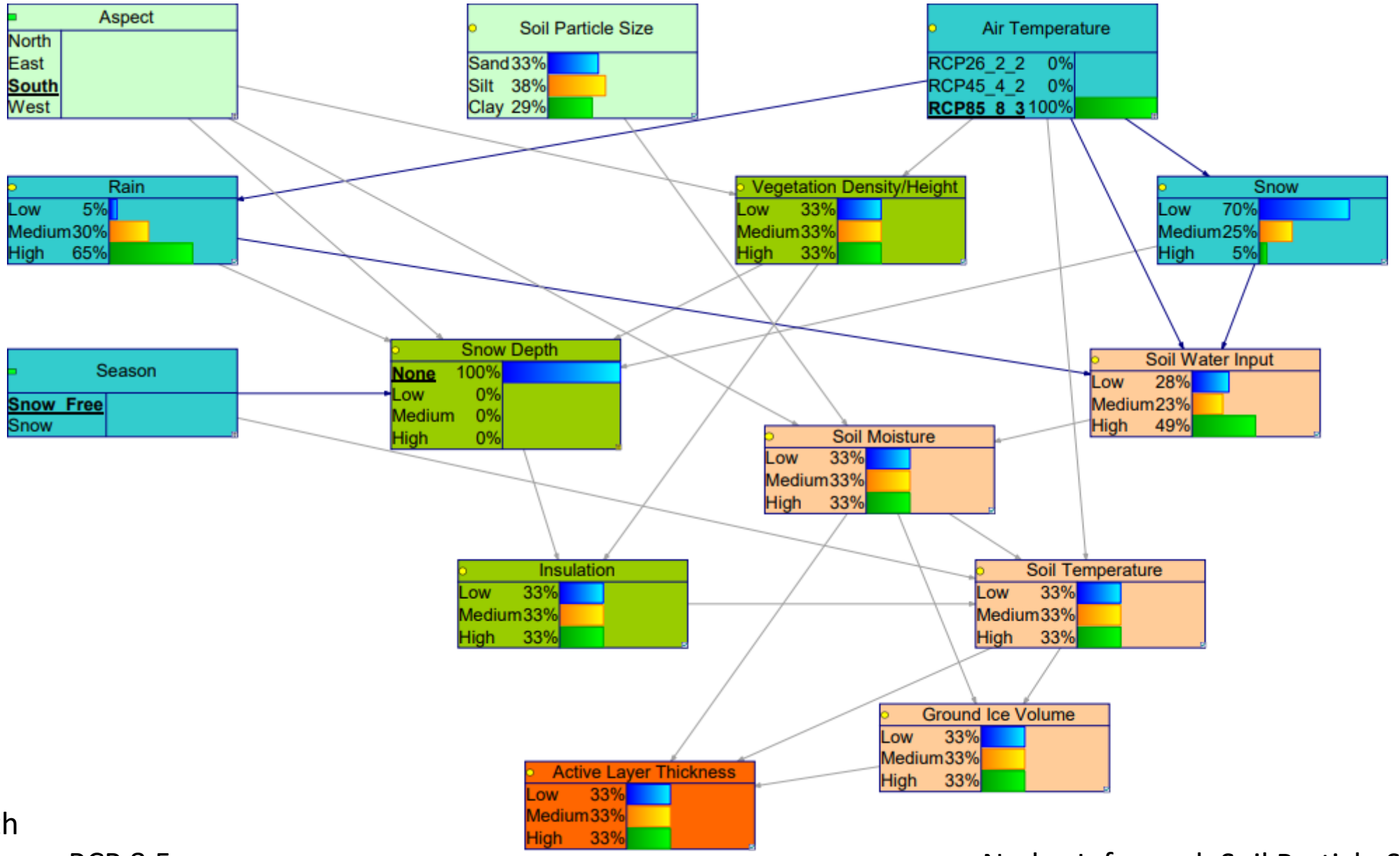


Aspect = North

Air Temperature = RCP 2.6

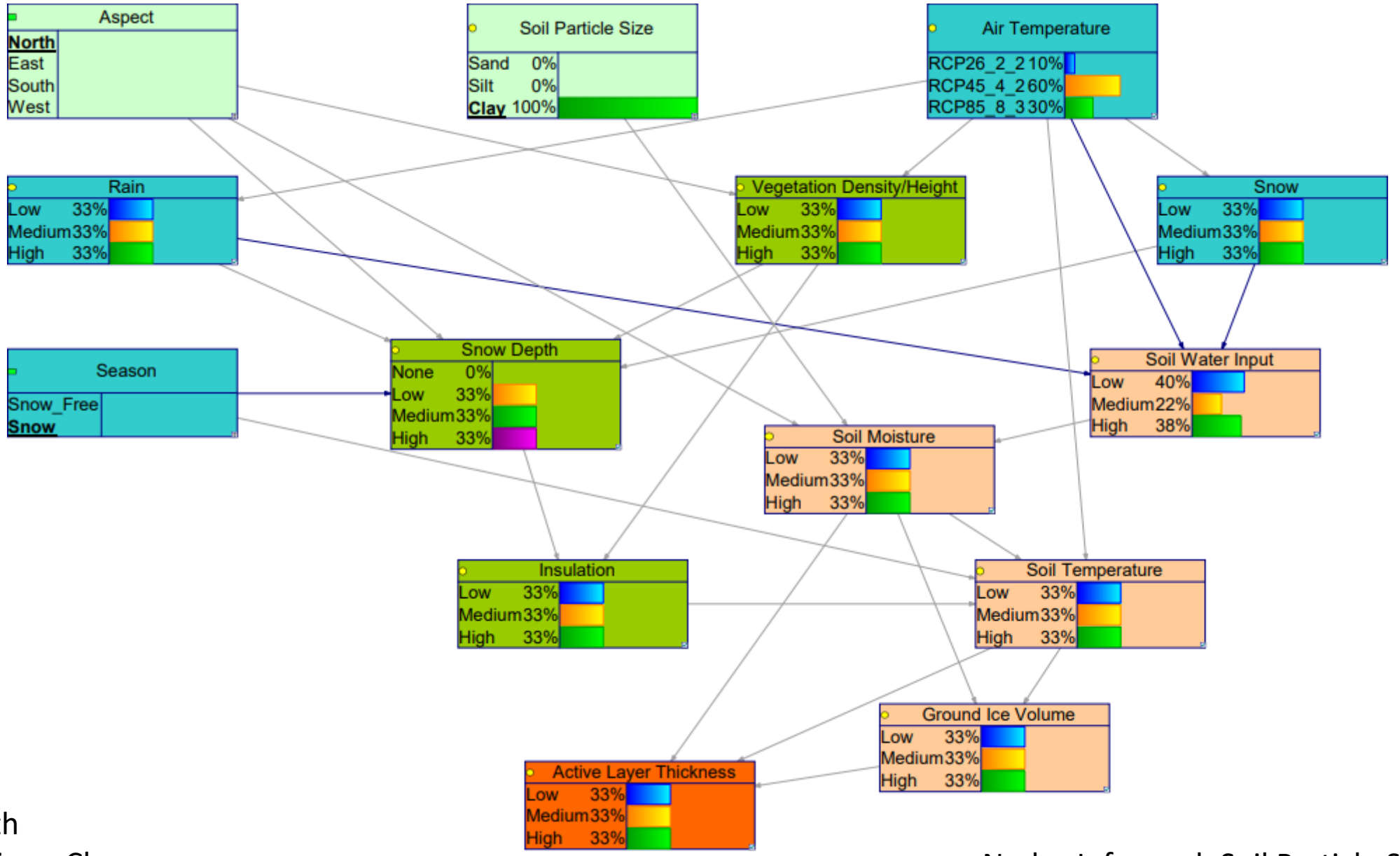
Season = Snow

Nodes Informed: Soil Particle Size, Air Temperature, Rain, Snow, Soil Water Input



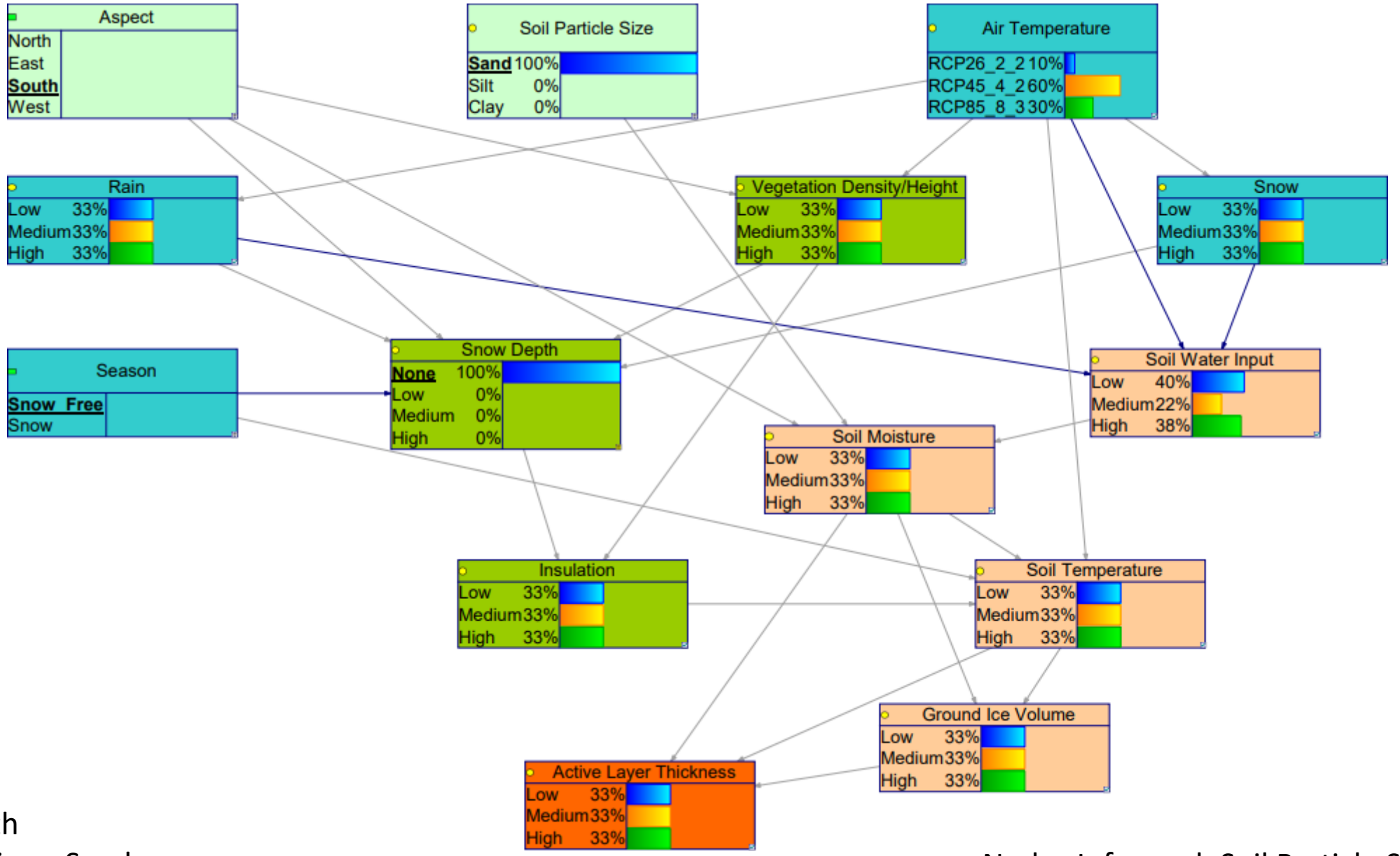
Aspect = South
Air Temperature = RCP 8.5
Season = Snow Free

Nodes Informed: Soil Particle Size, Air Temperature, Rain, Snow, Soil Water Input



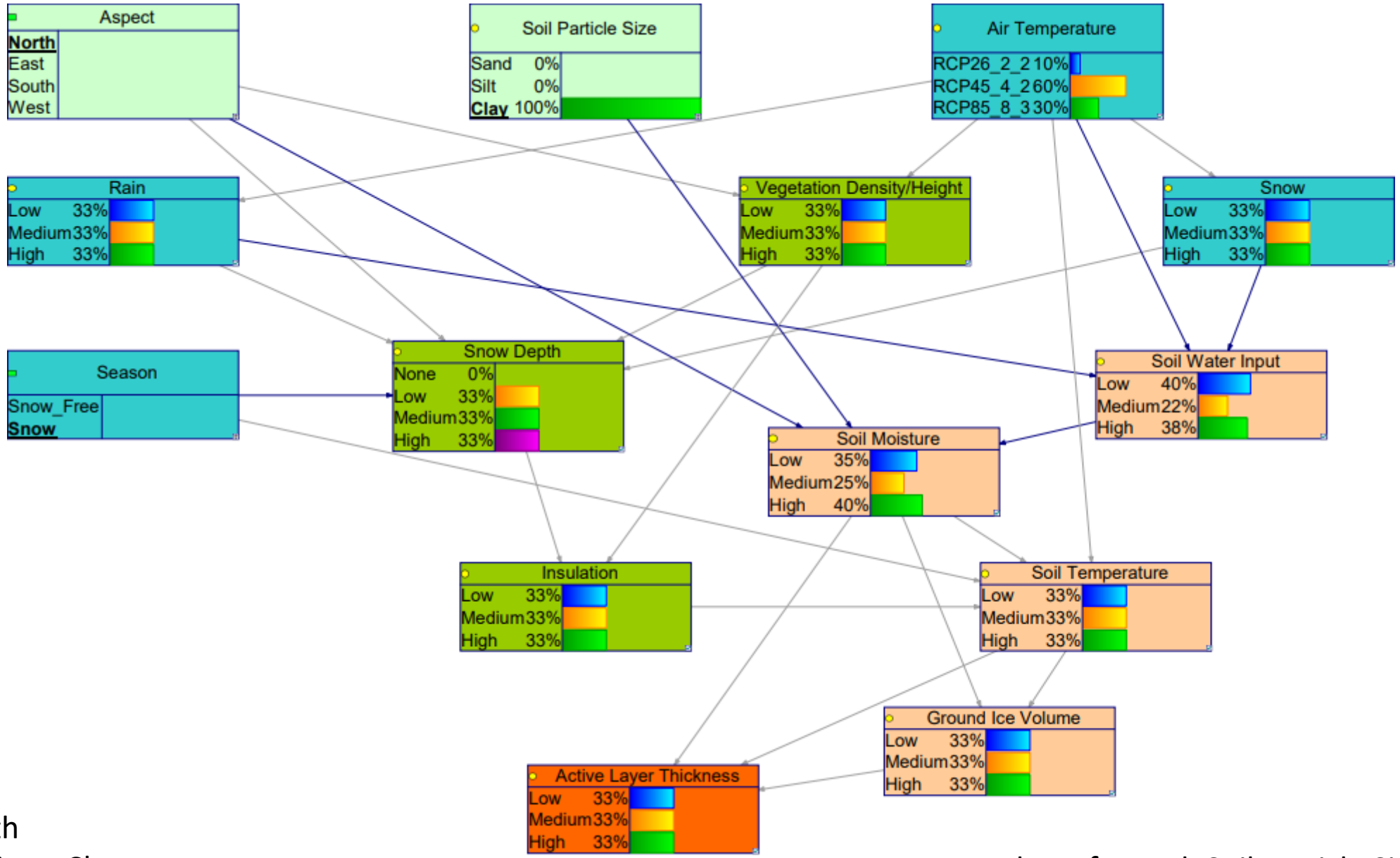
Aspect = North
Soil Particle Size = Clay
Season = Snow

Nodes Informed: Soil Particle Size, Air Temperature, Soil Water Input



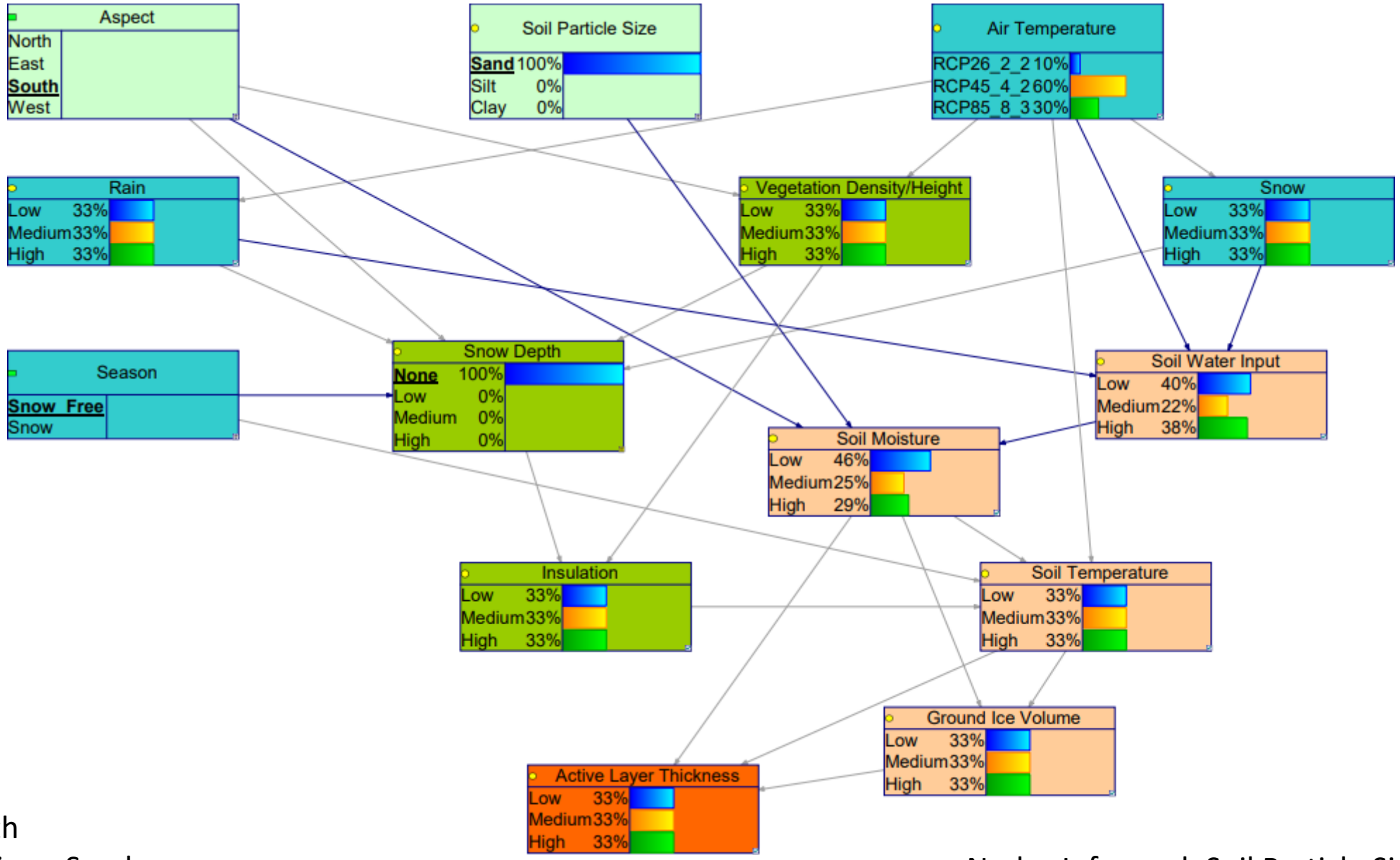
Aspect = South
Soil Particle Size = Sand
Season = Snow Free

Nodes Informed: Soil Particle Size, Air Temperature, Soil Water Input



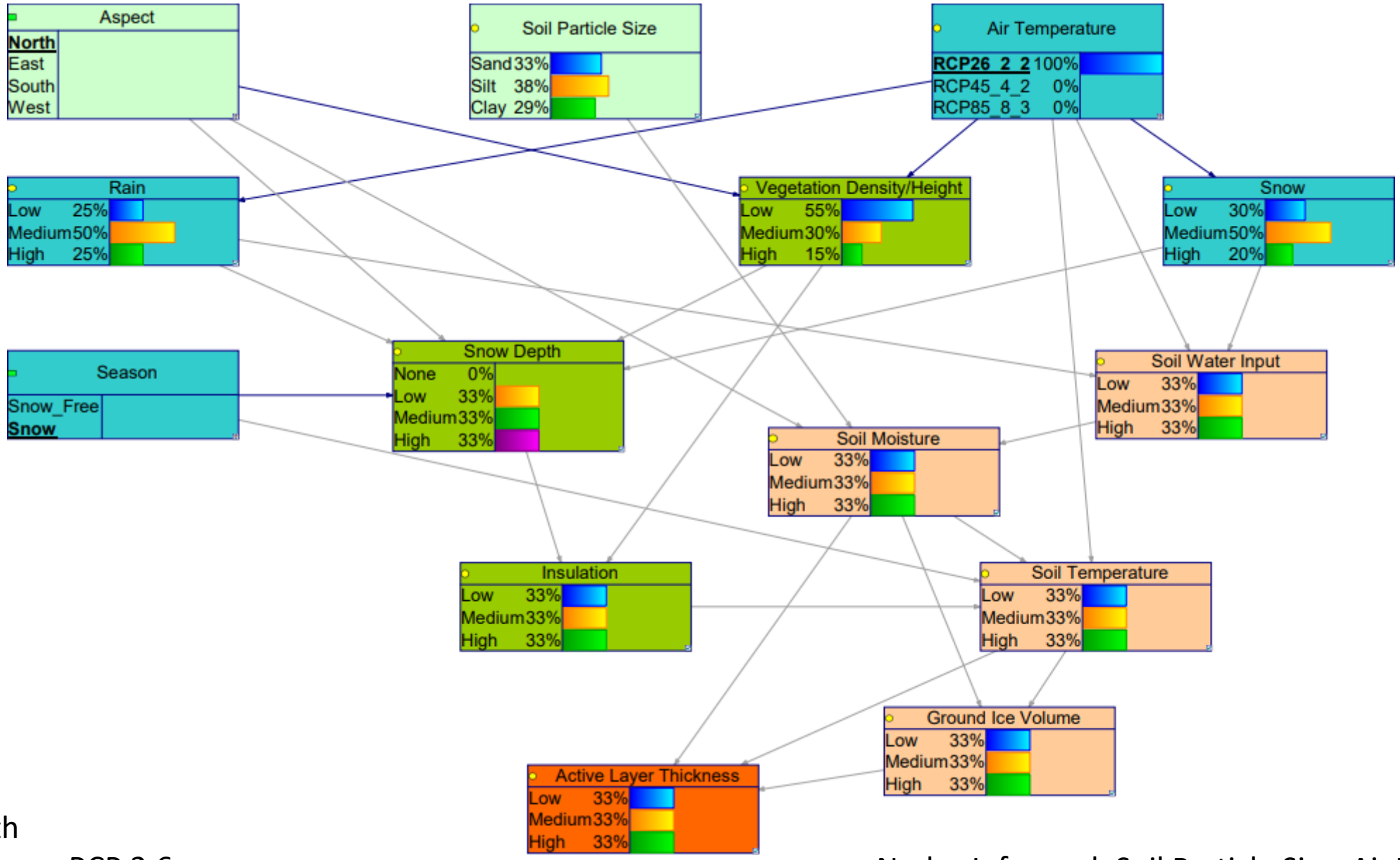
Aspect = North
Soil Particle Size = Clay
Season = Snow

Nodes Informed: Soil Particle Size, Air Temperature, Soil Water Input, Soil Moisture



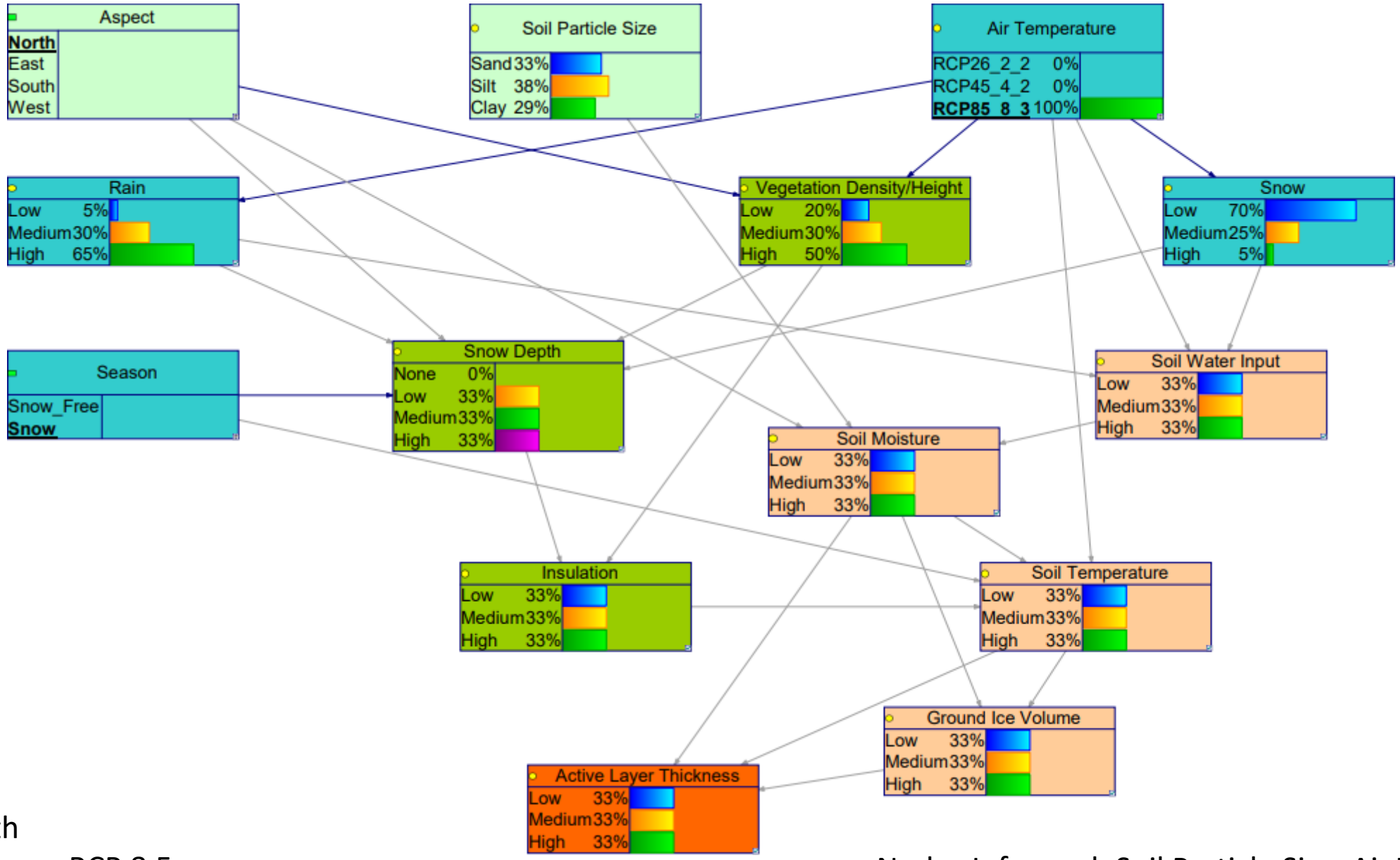
Aspect = South
Soil Particle Size = Sand
Season = Snow Free

Nodes Informed: Soil Particle Size, Air Temperature, Soil Water Input, Soil Moisture



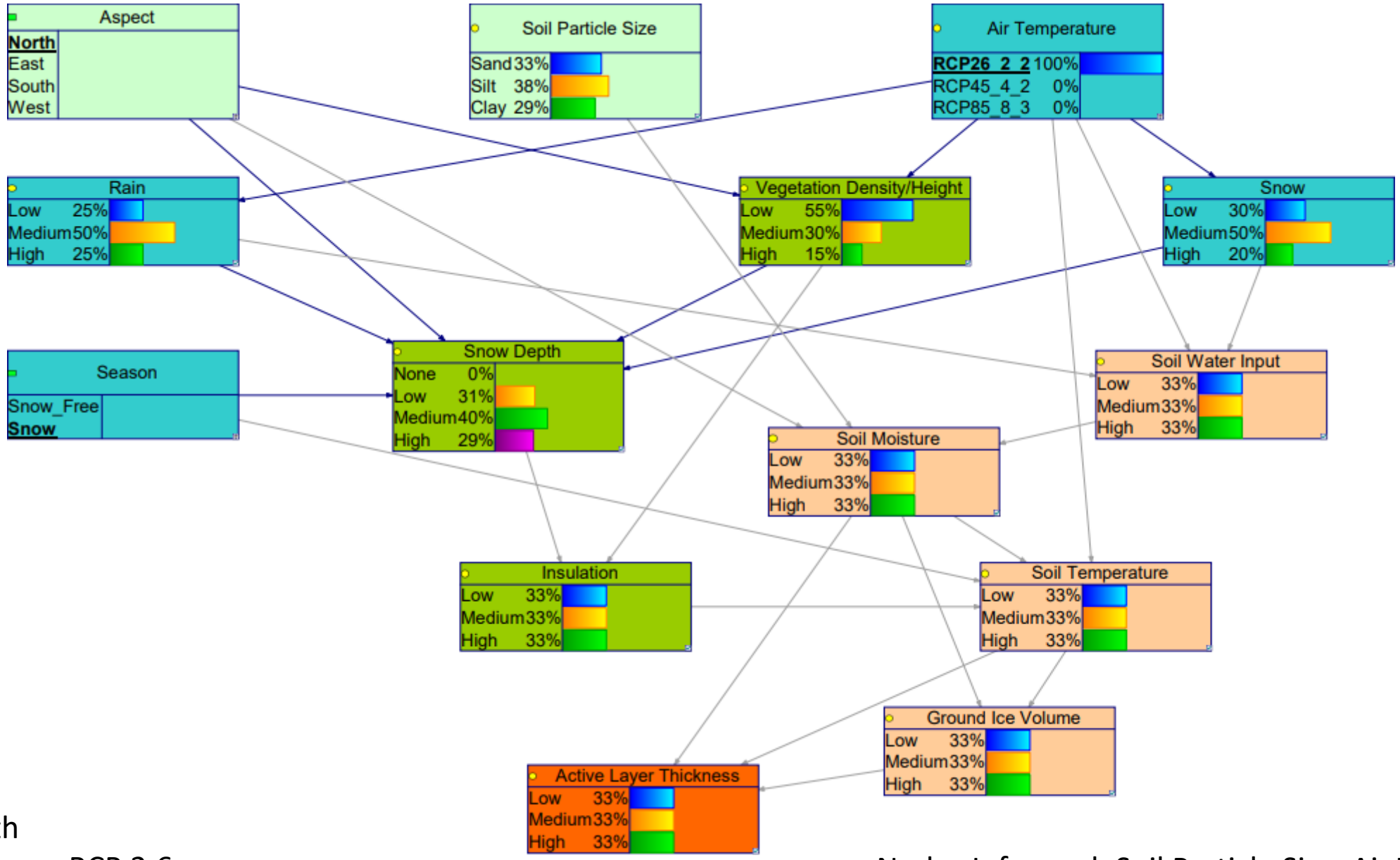
Aspect = North
Air Temperature = RCP 2.6
Season = Snow

Nodes Informed: Soil Particle Size, Air Temperature, Rain, Snow, Vegetation Density/Height



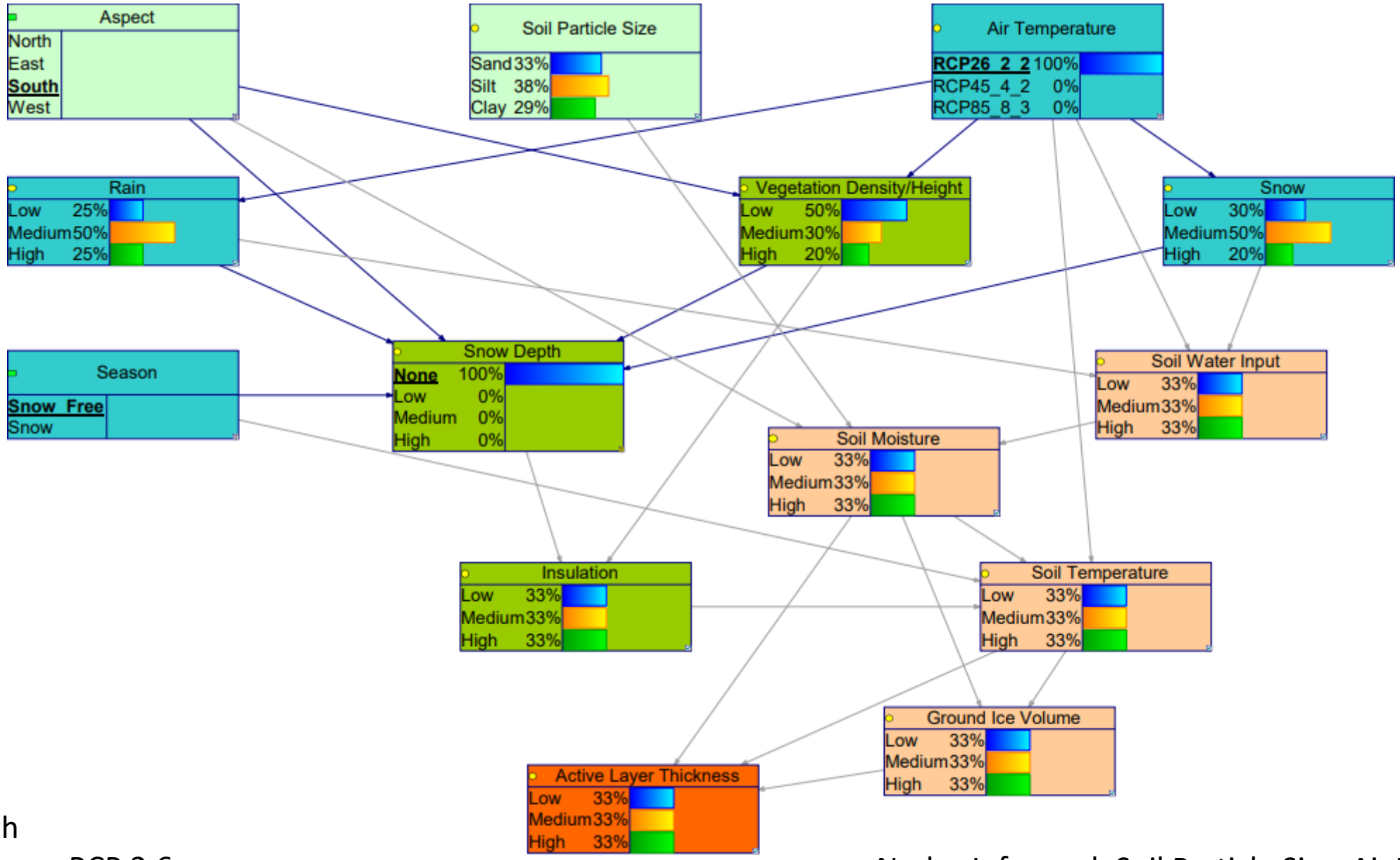
Aspect = North
Air Temperature = RCP 8.5
Season = Snow

Nodes Informed: Soil Particle Size, Air Temperature, Rain, Snow, Vegetation Density/Height



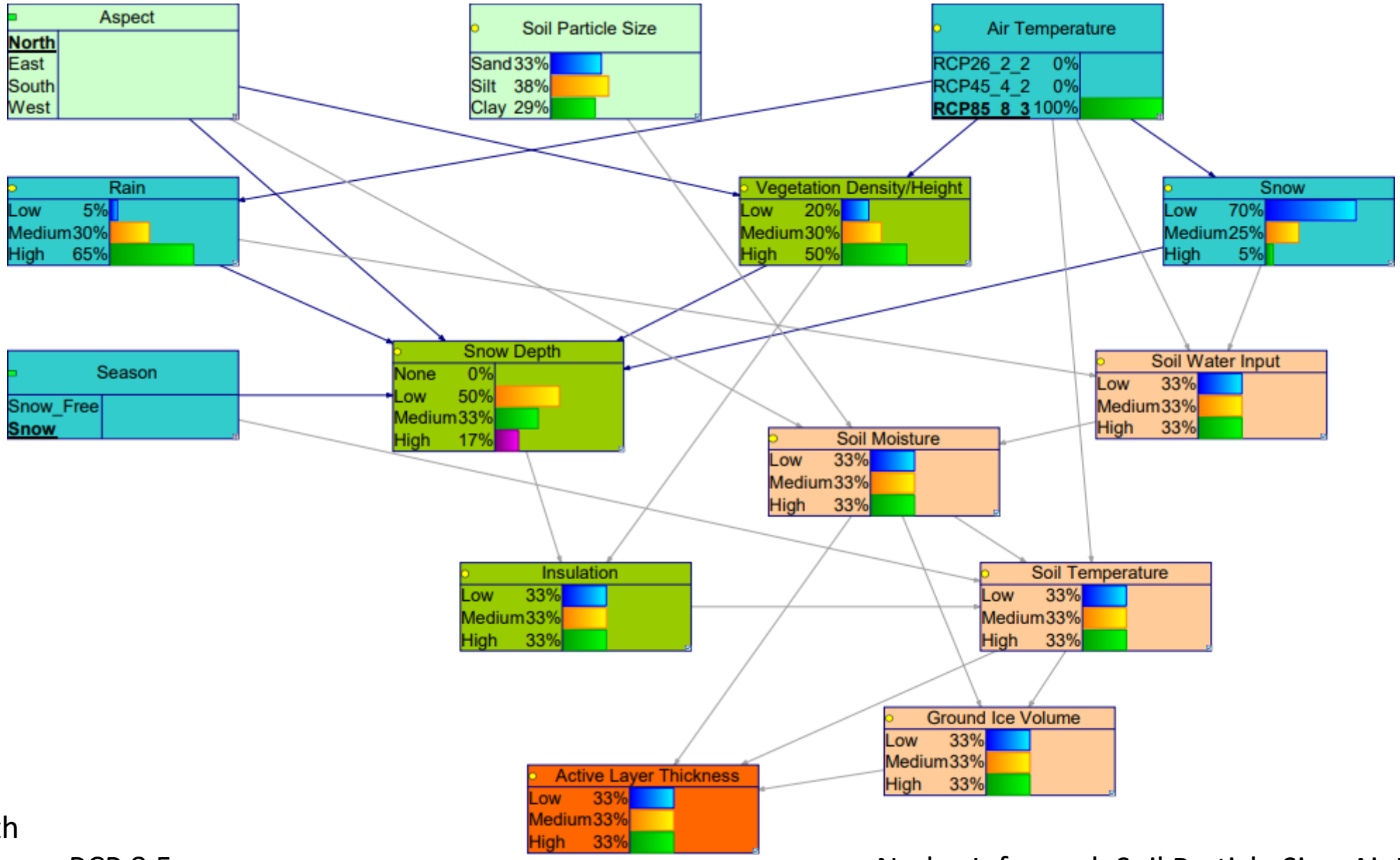
Aspect = North
Air Temperature = RCP 2.6
Season = Snow

Nodes Informed: Soil Particle Size, Air Temperature, Rain, Snow, Vegetation Density/Height, Snow Depth



Aspect = South
Air Temperature = RCP 2.6
Season = Snow Free

Nodes Informed: Soil Particle Size, Air Temperature, Rain, Snow, Vegetation Density/Height, Snow Depth

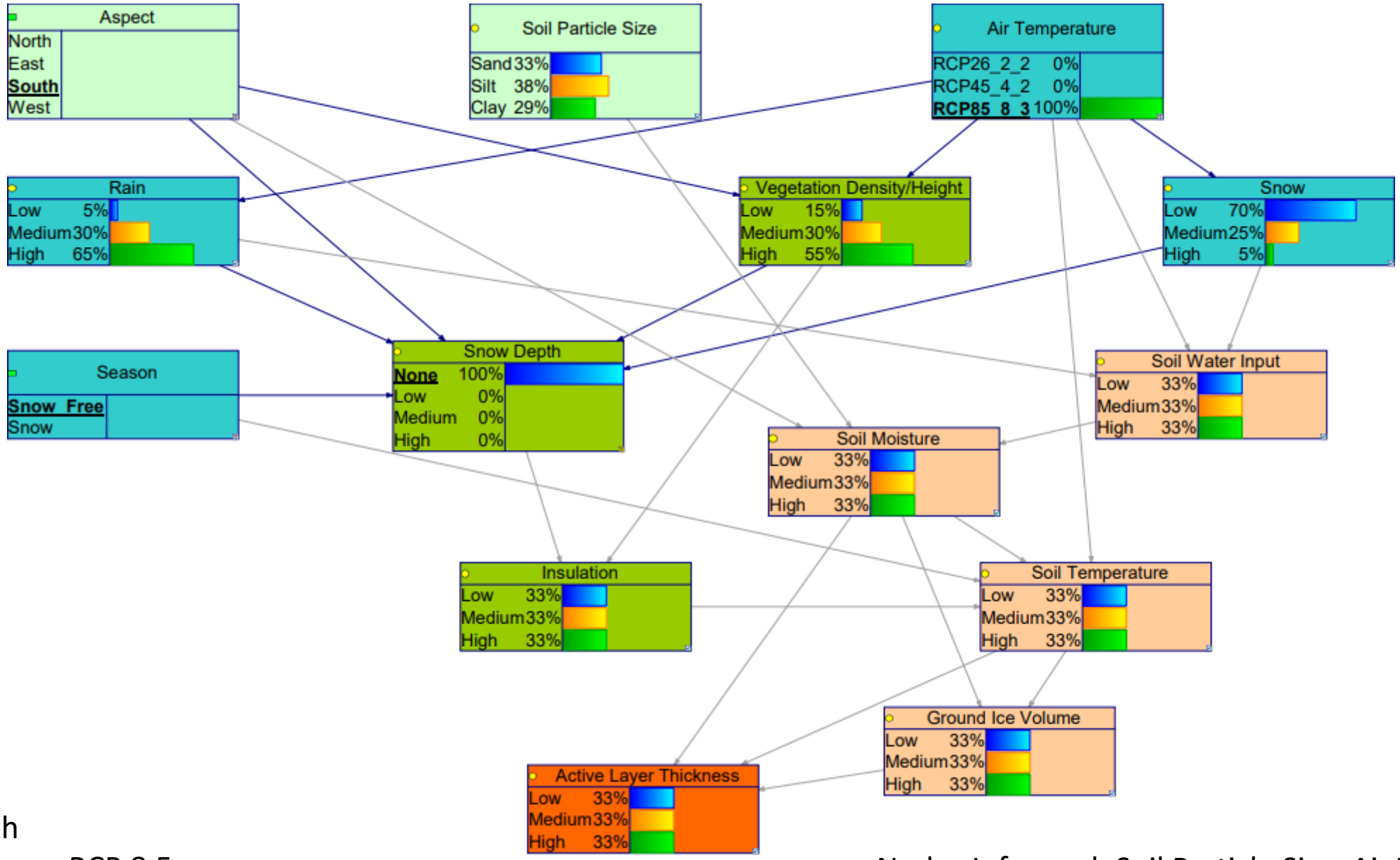


Aspect = North

Air Temperature = RCP 8.5

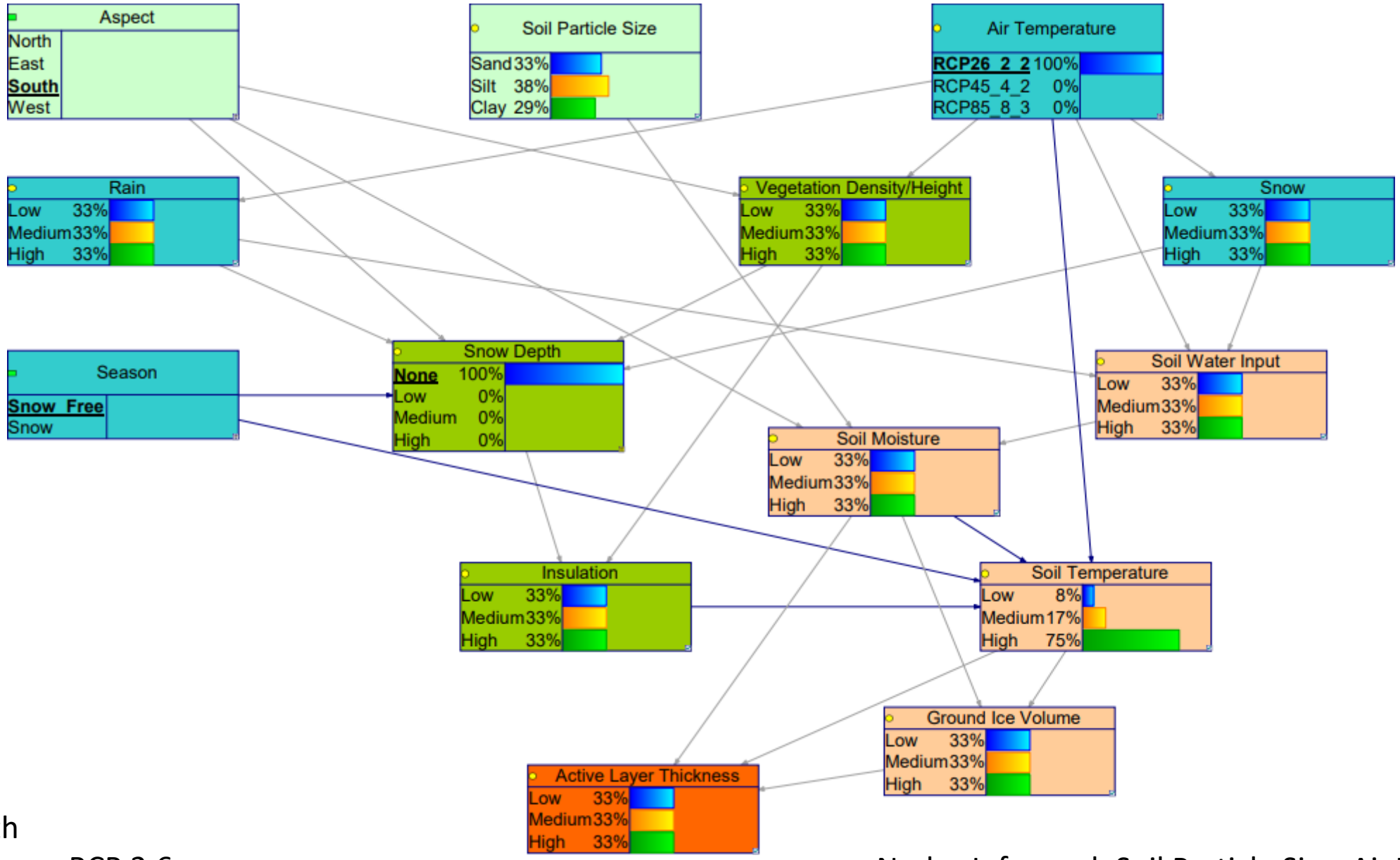
Season = Snow

Nodes Informed: Soil Particle Size, Air Temperature, Rain, Snow, Vegetation Density/Height, Snow Depth



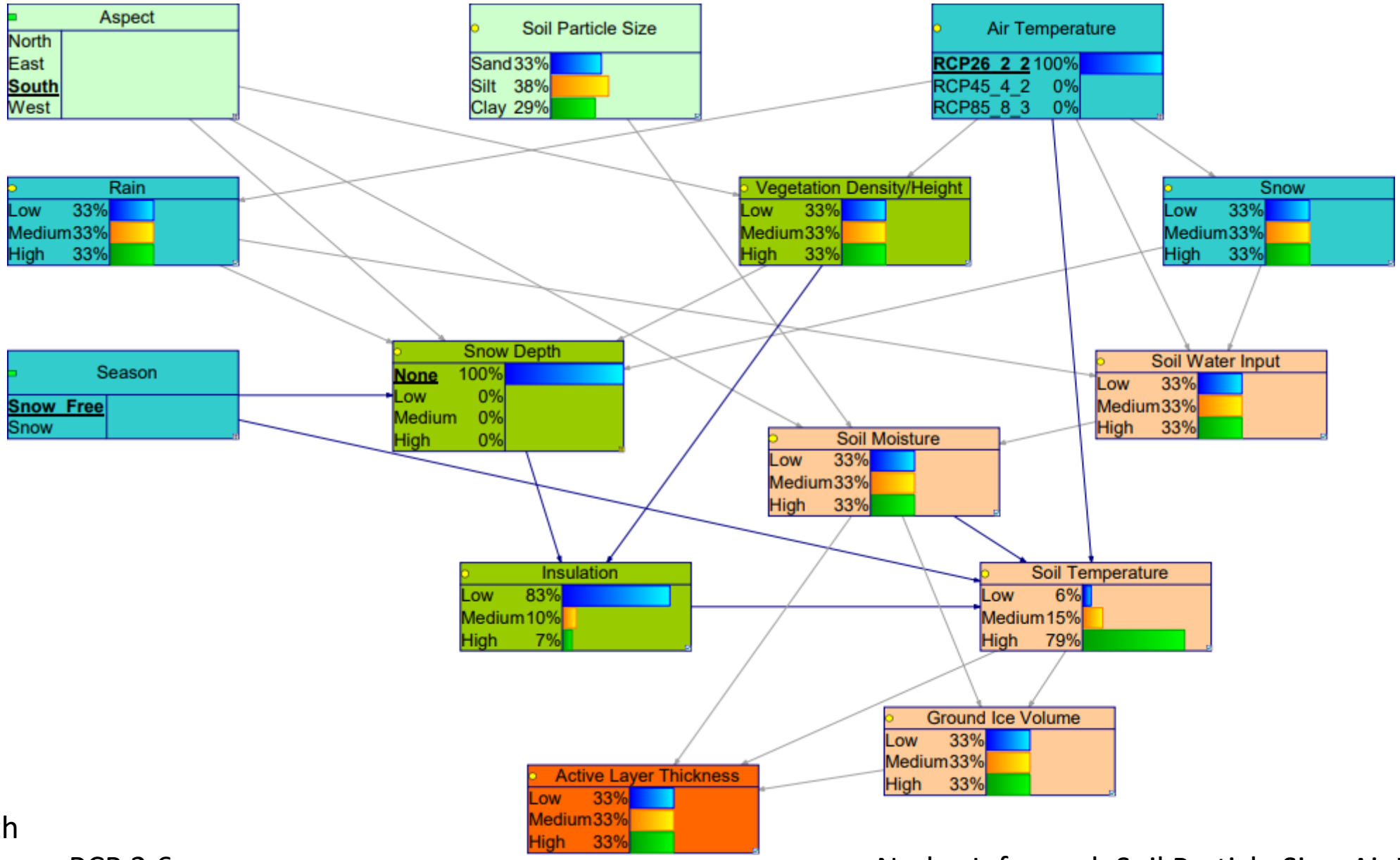
Aspect = South
Air Temperature = RCP 8.5
Season = Snow Free

Nodes Informed: Soil Particle Size, Air Temperature, Rain, Snow, Vegetation Density/Height, Snow Depth



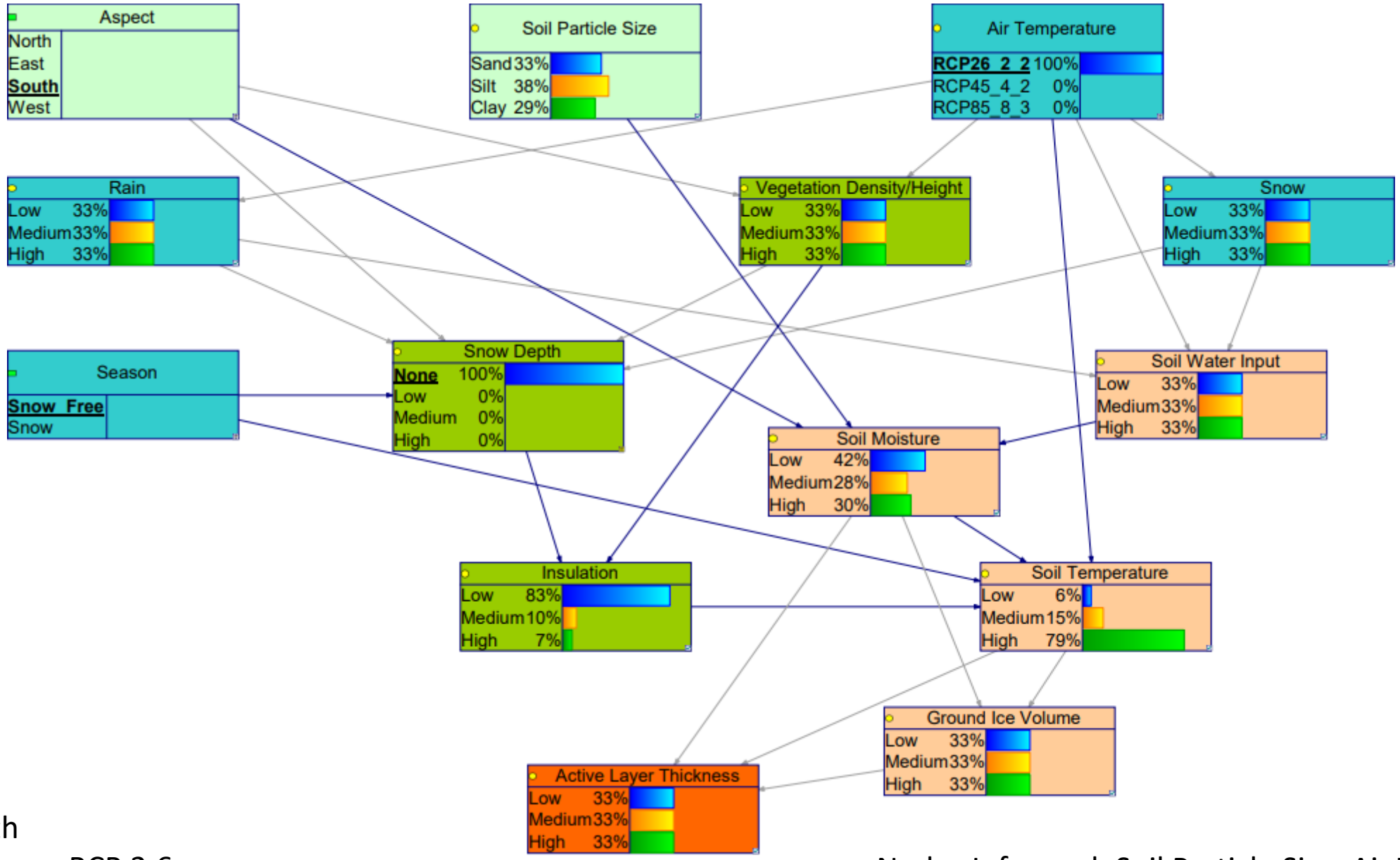
Aspect = South
Air Temperature = RCP 2.6
Season = Snow Free

Nodes Informed: Soil Particle Size, Air Temperature, Soil Temperature



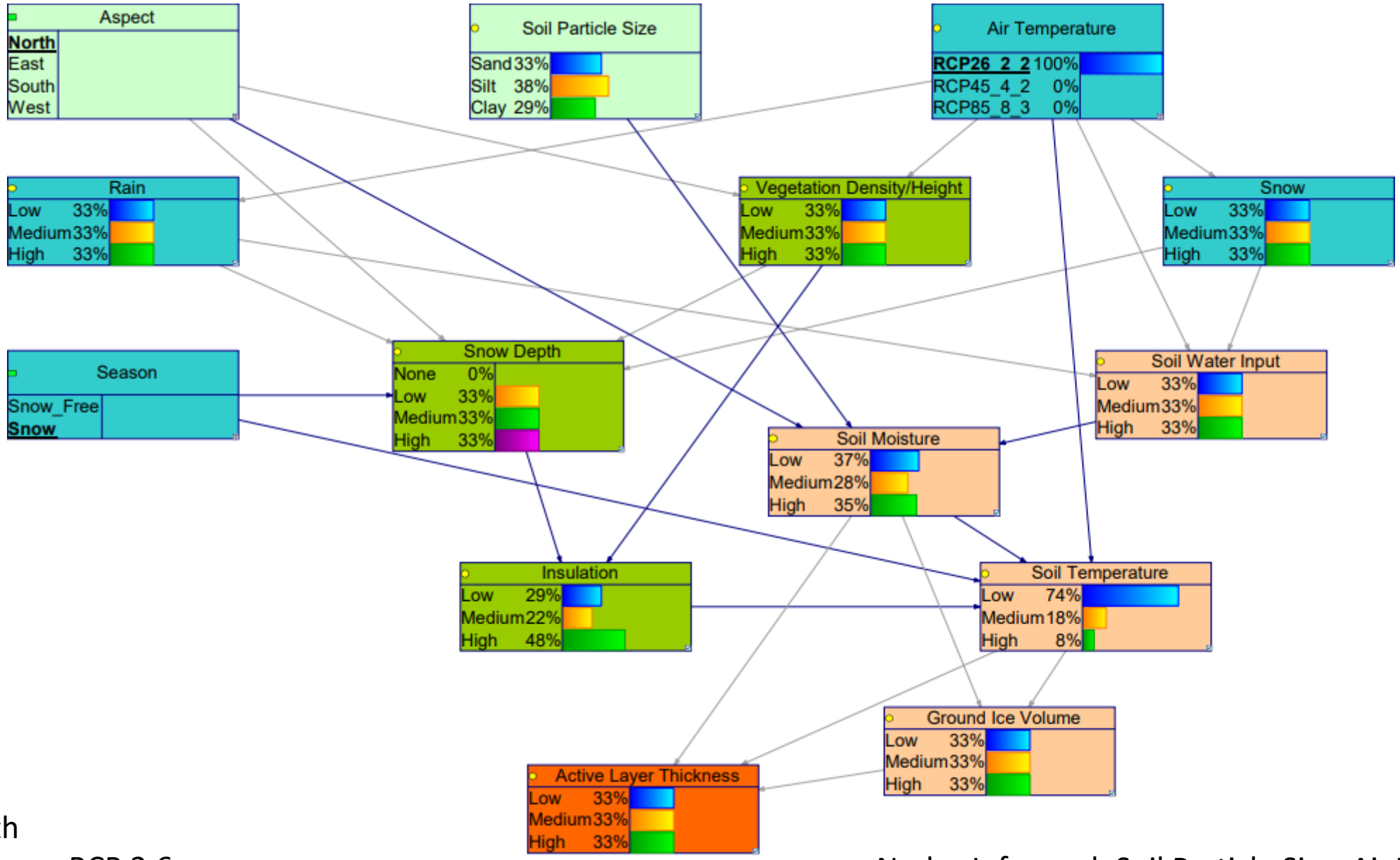
Aspect = South
Air Temperature = RCP 2.6
Season = Snow Free

Nodes Informed: Soil Particle Size, Air Temperature, Insulation, Soil Temperature



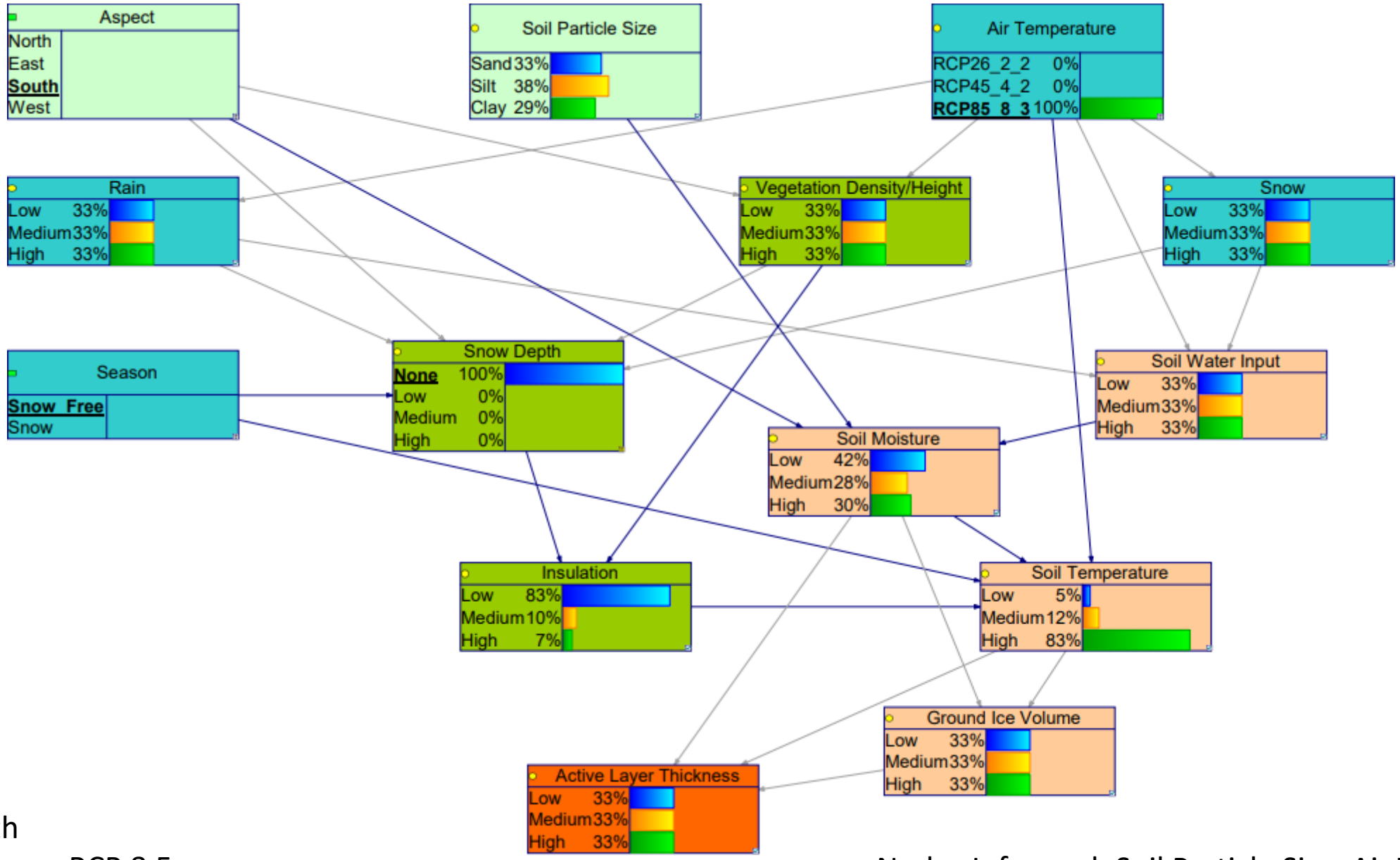
Aspect = South
Air Temperature = RCP 2.6
Season = Snow Free

Nodes Informed: Soil Particle Size, Air Temperature, Insulation, Soil Moisture, Soil Temperature



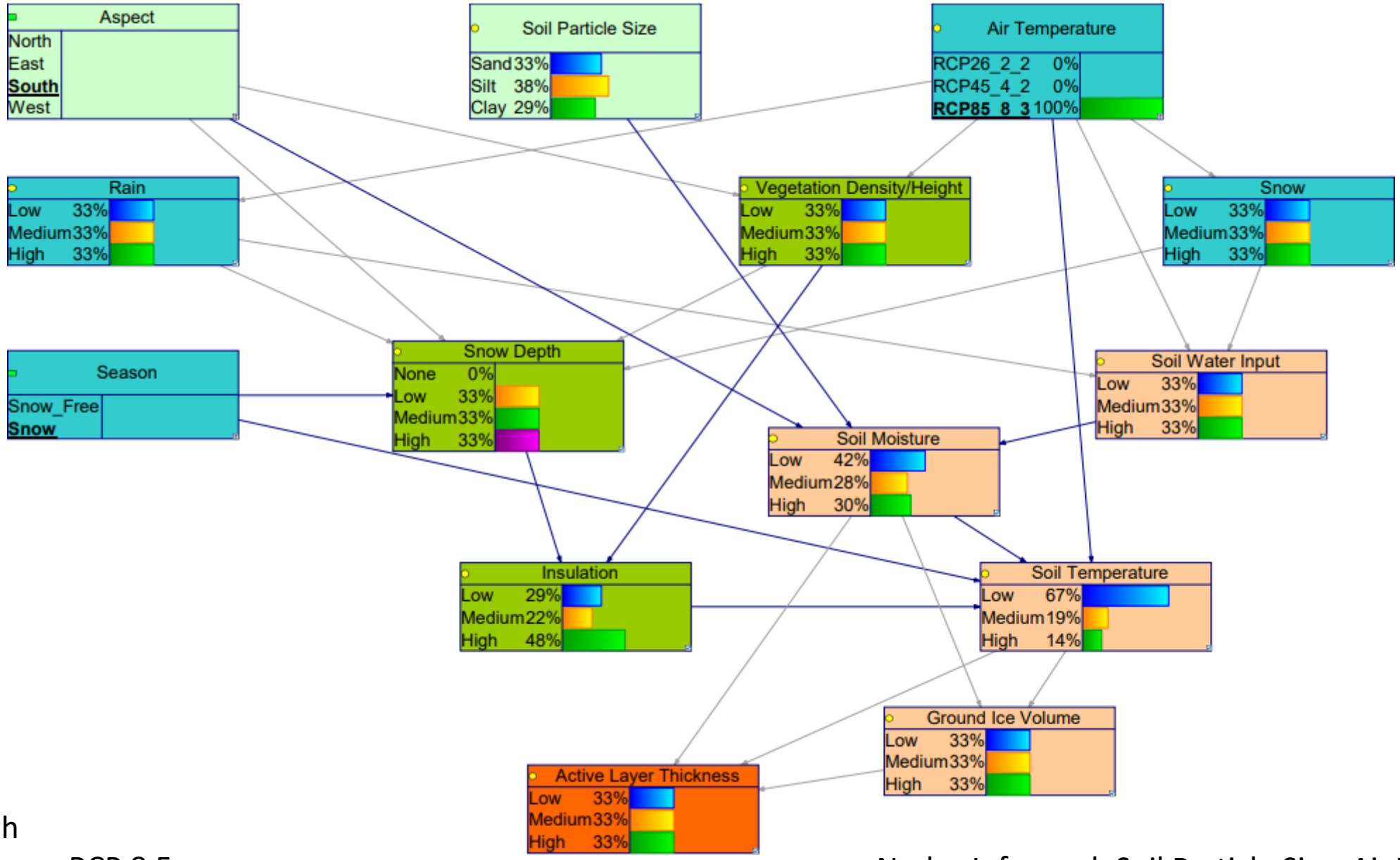
Aspect = North
Air Temperature = RCP 2.6
Season = Snow

Nodes Informed: Soil Particle Size, Air Temperature, Insulation, Soil Moisture, Soil Temperature



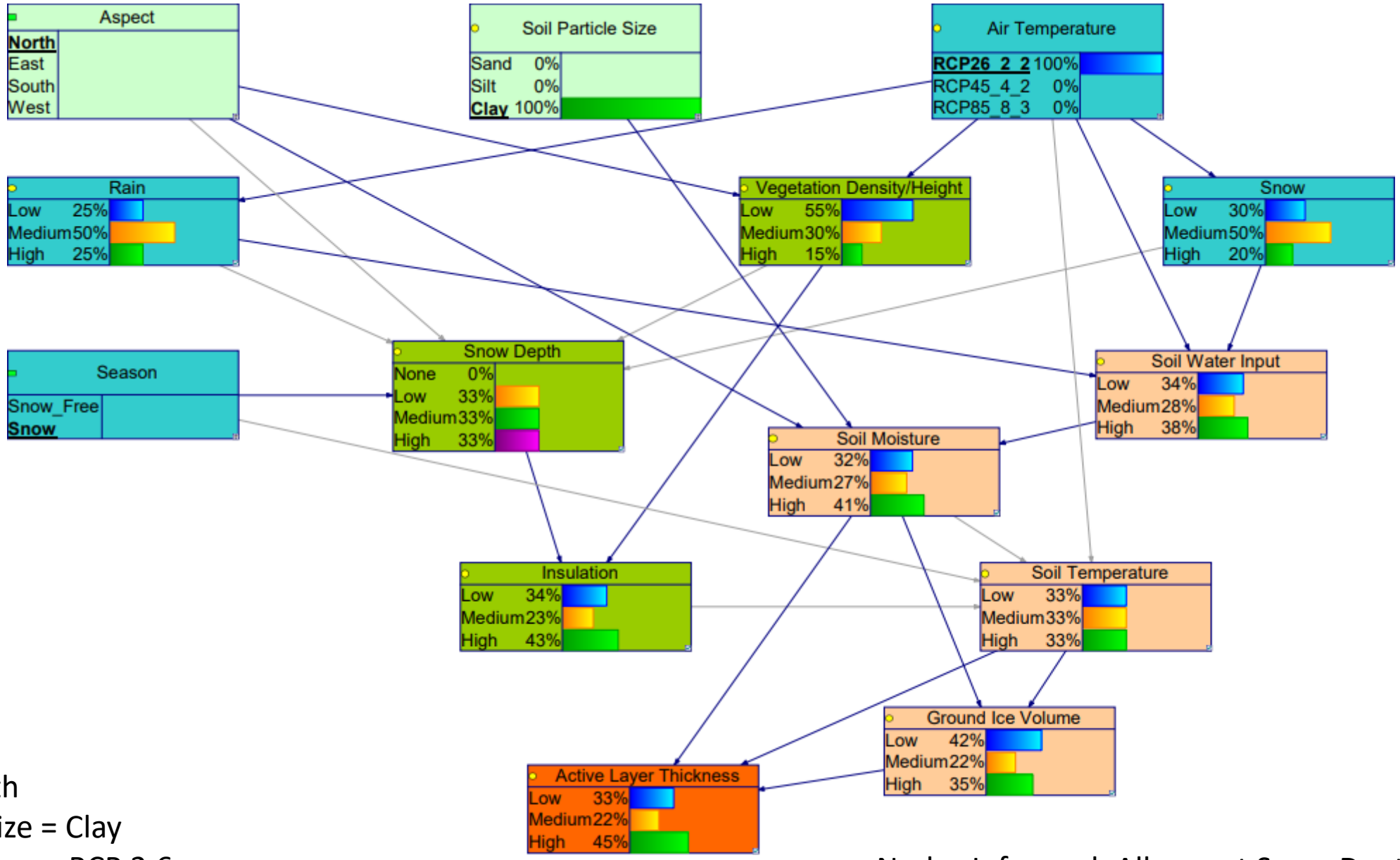
Aspect = South
Air Temperature = RCP 8.5
Season = Snow Free

Nodes Informed: Soil Particle Size, Air Temperature, Insulation, Soil Moisture, Soil Temperature



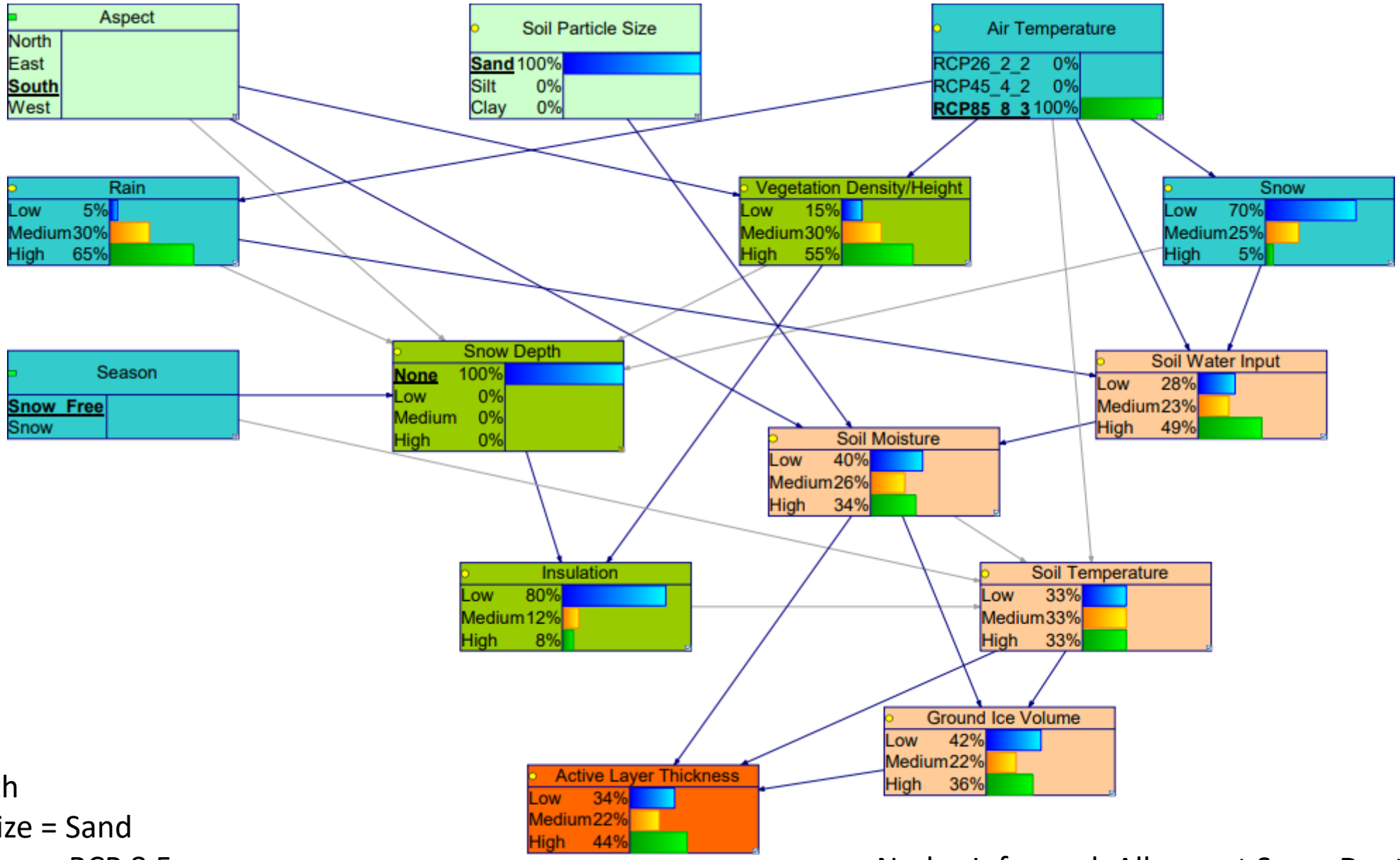
Aspect = South
Air Temperature = RCP 8.5
Season = Snow

Nodes Informed: Soil Particle Size, Air Temperature, Insulation, Soil Moisture, Soil Temperature



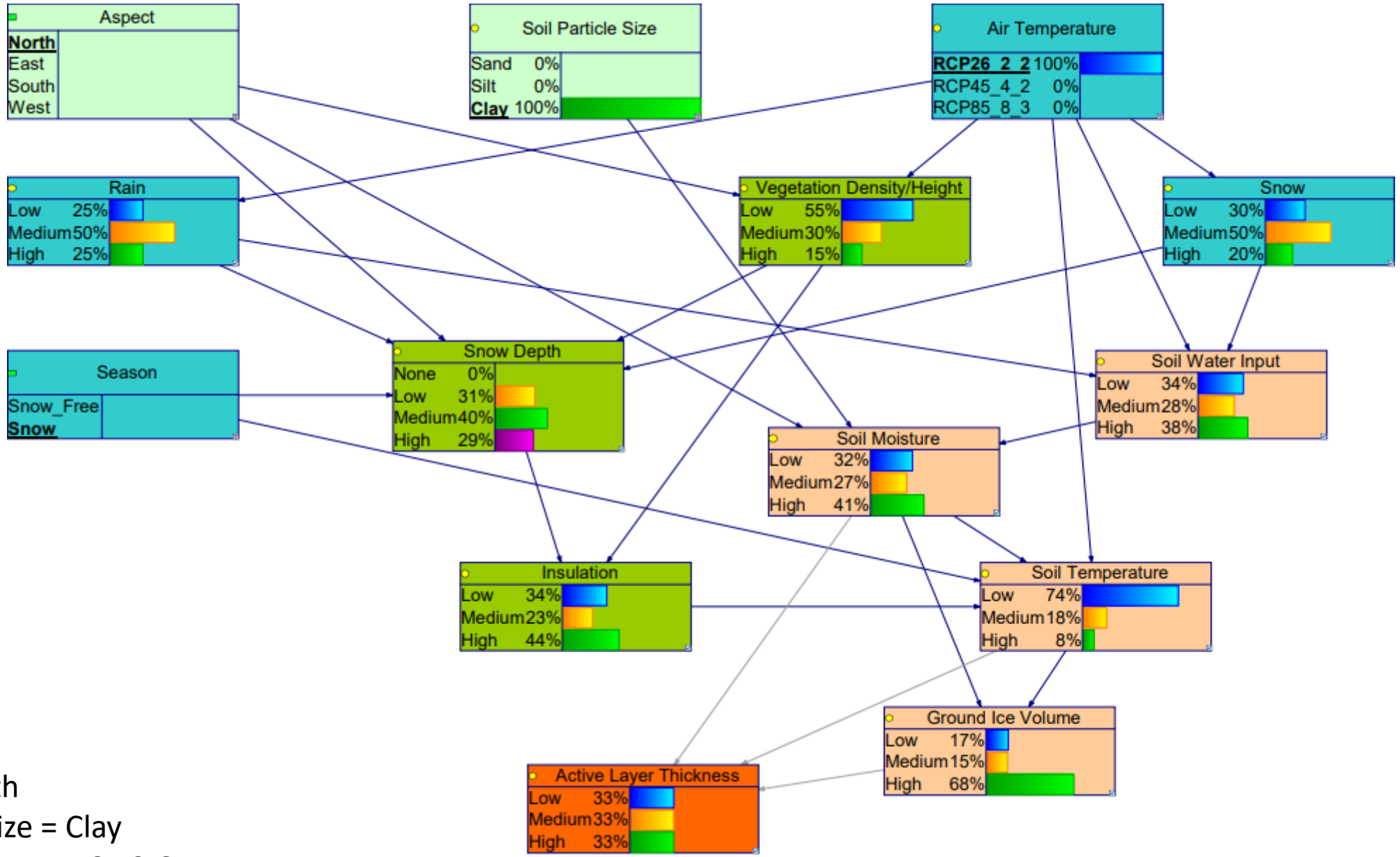
Aspect = North
Soil Particle Size = Clay
Air Temperature = RCP 2.6
Season = Snow

Nodes Informed: All except Snow Depth and Soil Temperature



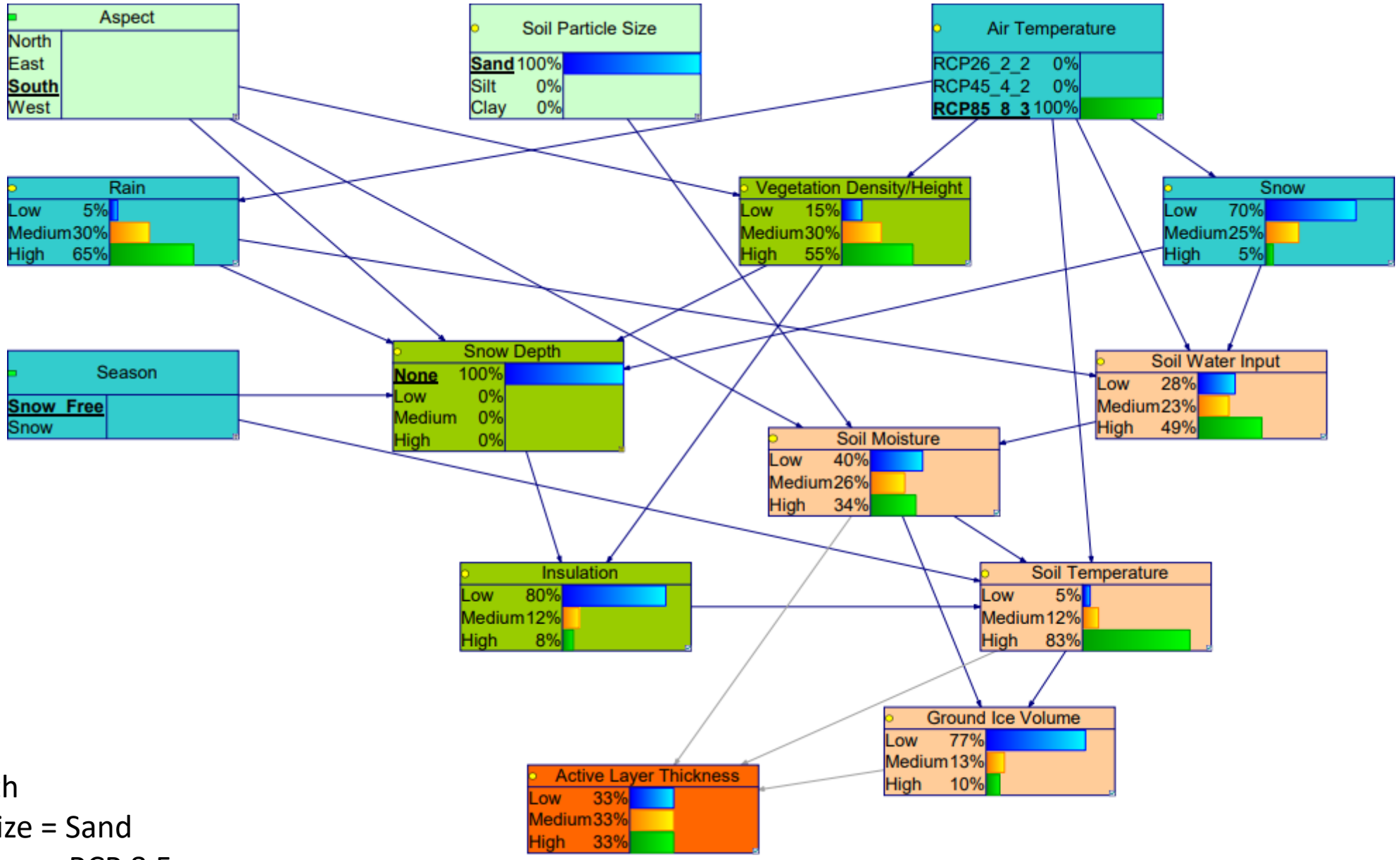
Aspect = South
Soil Particle Size = Sand
Air Temperature = RCP 8.5
Season = Snow Free

Nodes Informed: All except Snow Depth and Soil Temperature



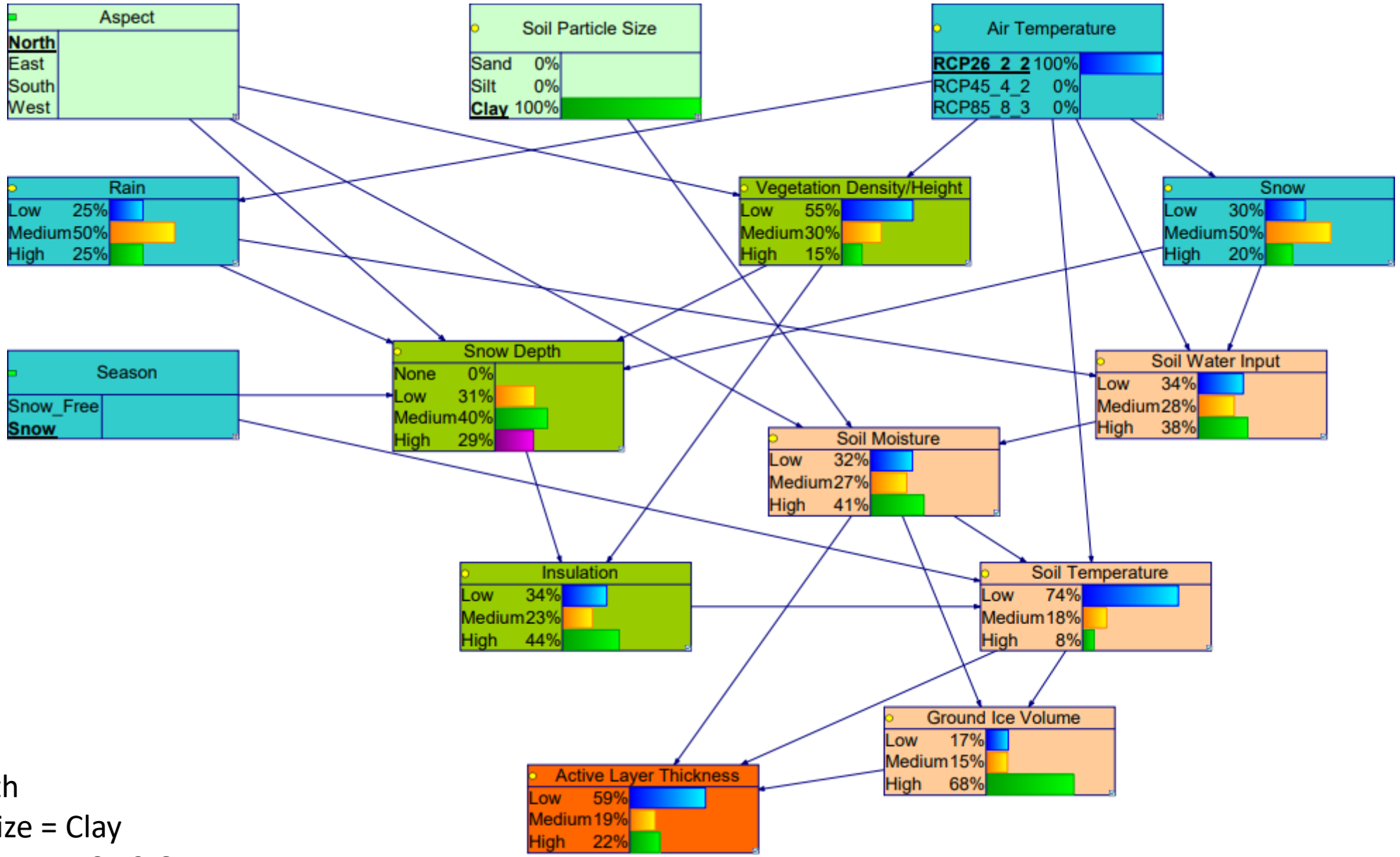
Aspect = North
Soil Particle Size = Clay
Air Temperature = RCP 2.6
Season = Snow

Nodes Informed: All except Active Layer Thickness



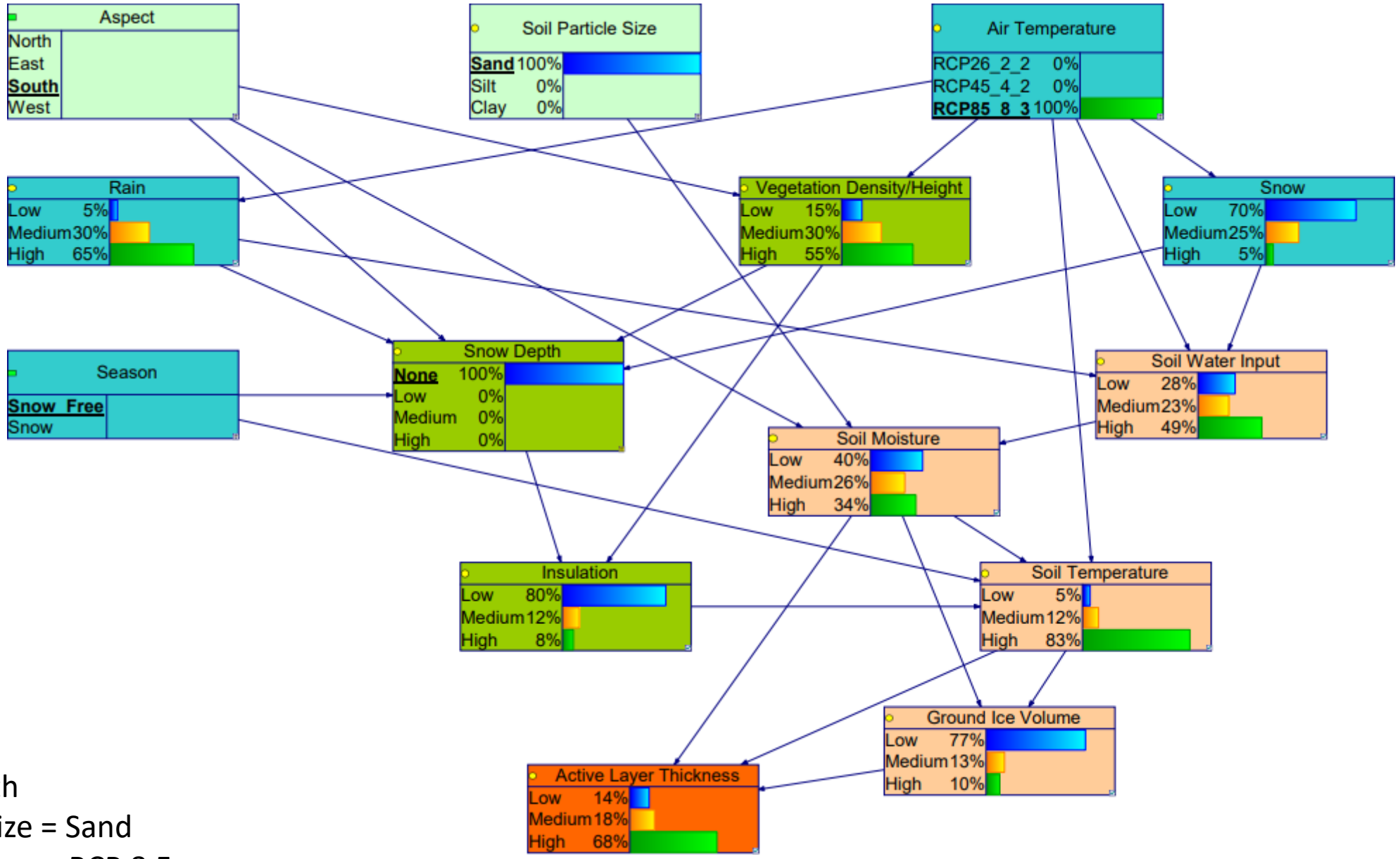
Aspect = South
Soil Particle Size = Sand
Air Temperature = RCP 8.5
Season = Snow Free

Nodes Informed: All except Active Layer Thickness



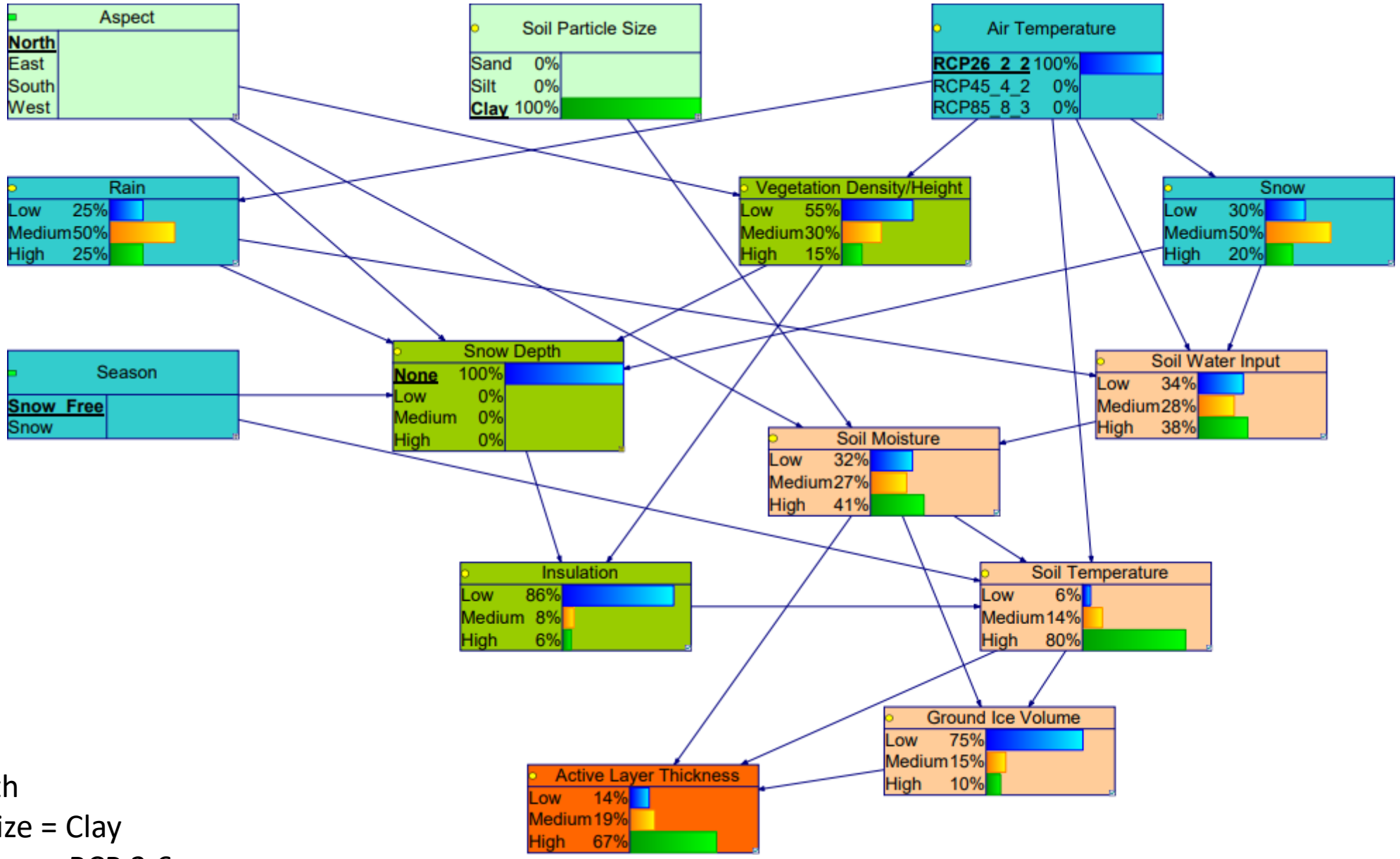
Aspect = North
Soil Particle Size = Clay
Air Temperature = RCP 2.6
Season = Snow

Nodes Informed: All



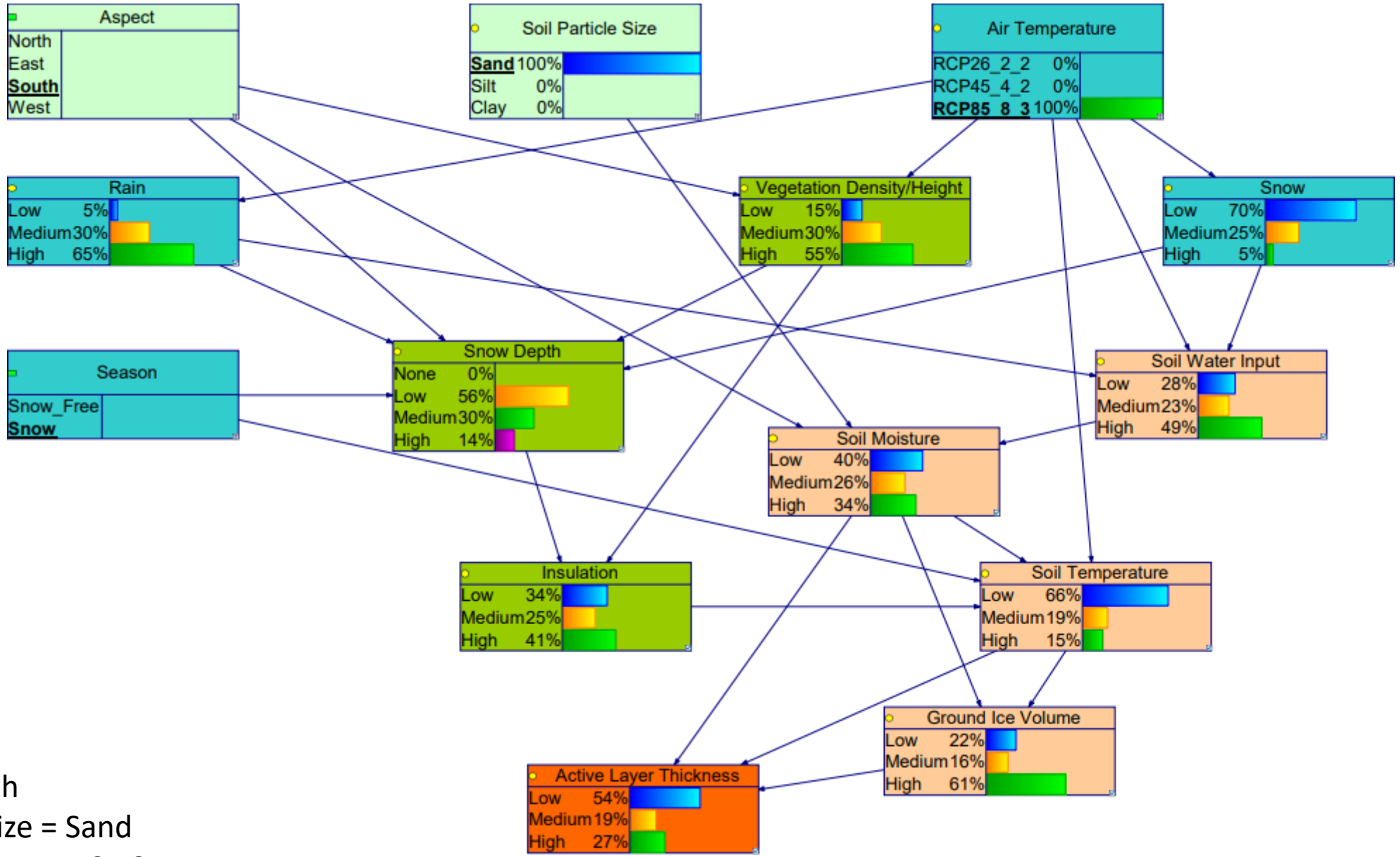
Aspect = South
Soil Particle Size = Sand
Air Temperature = RCP 8.5
Season = Snow Free

Nodes Informed: All



Aspect = North
Soil Particle Size = Clay
Air Temperature = RCP 2.6
Season = Snow Free

Nodes Informed: All

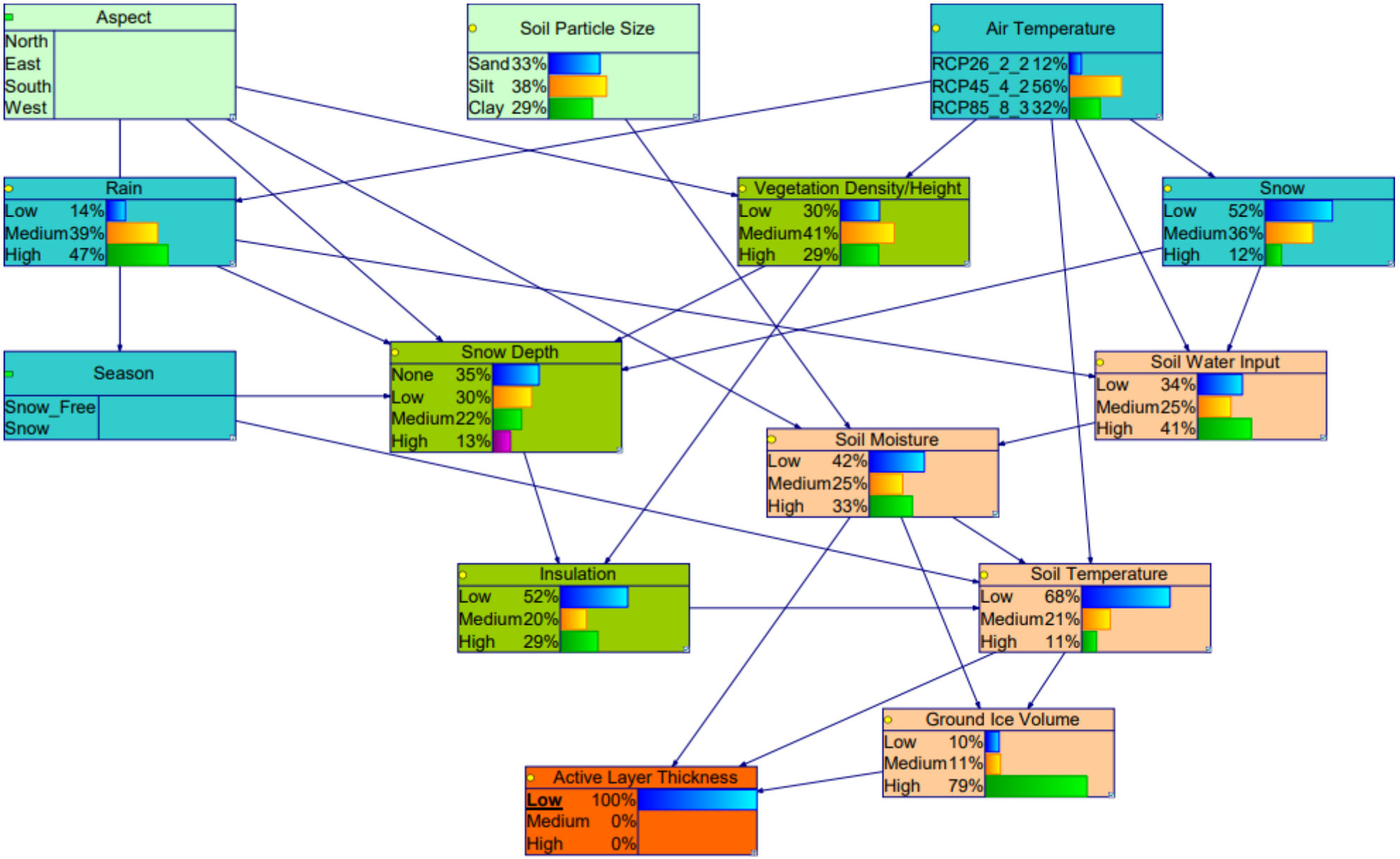


Aspect = South
Soil Particle Size = Sand
Air Temperature = RCP 8.5
Season = Snow

Nodes Informed: All

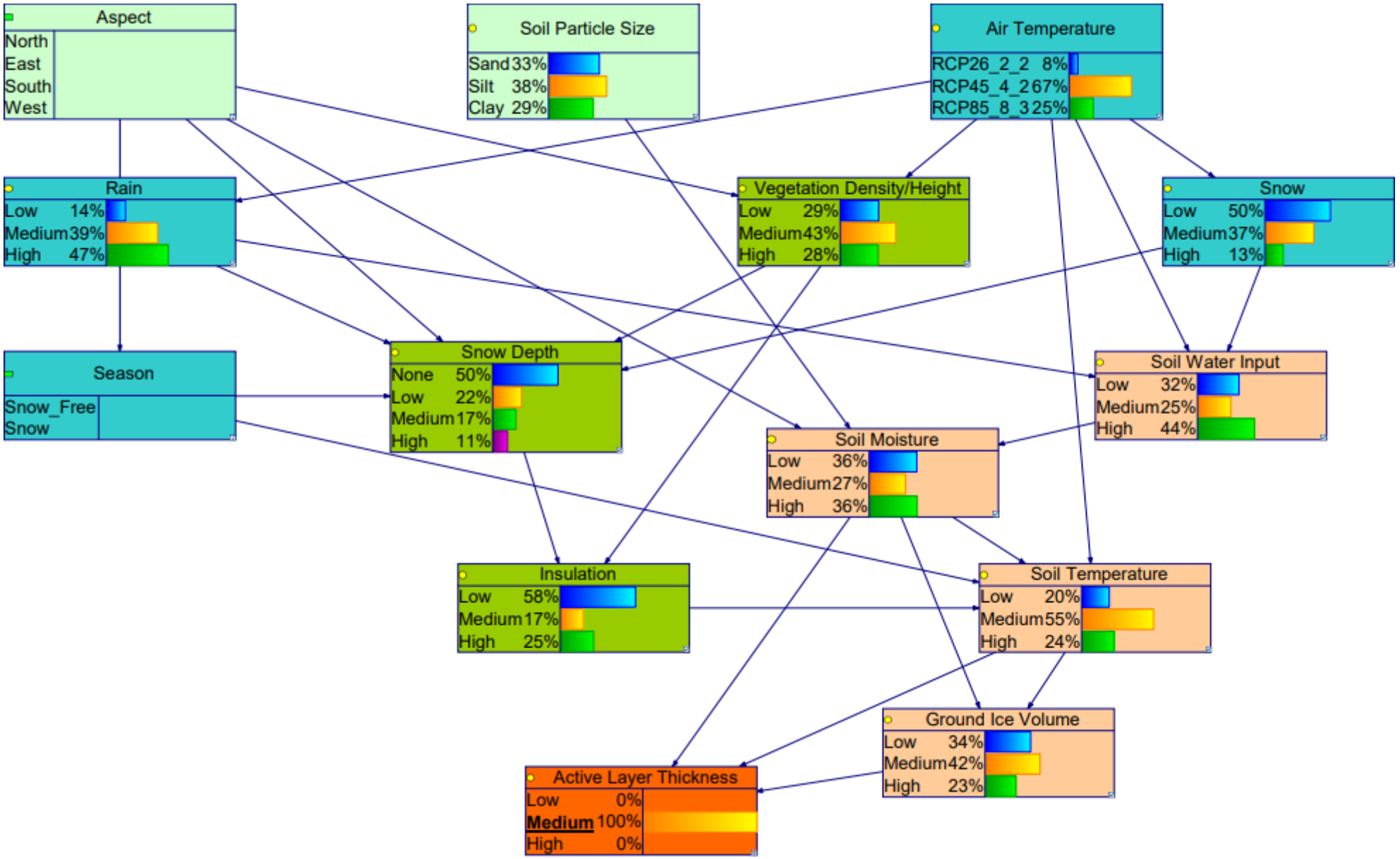
Pre-Validation

Diagnosis



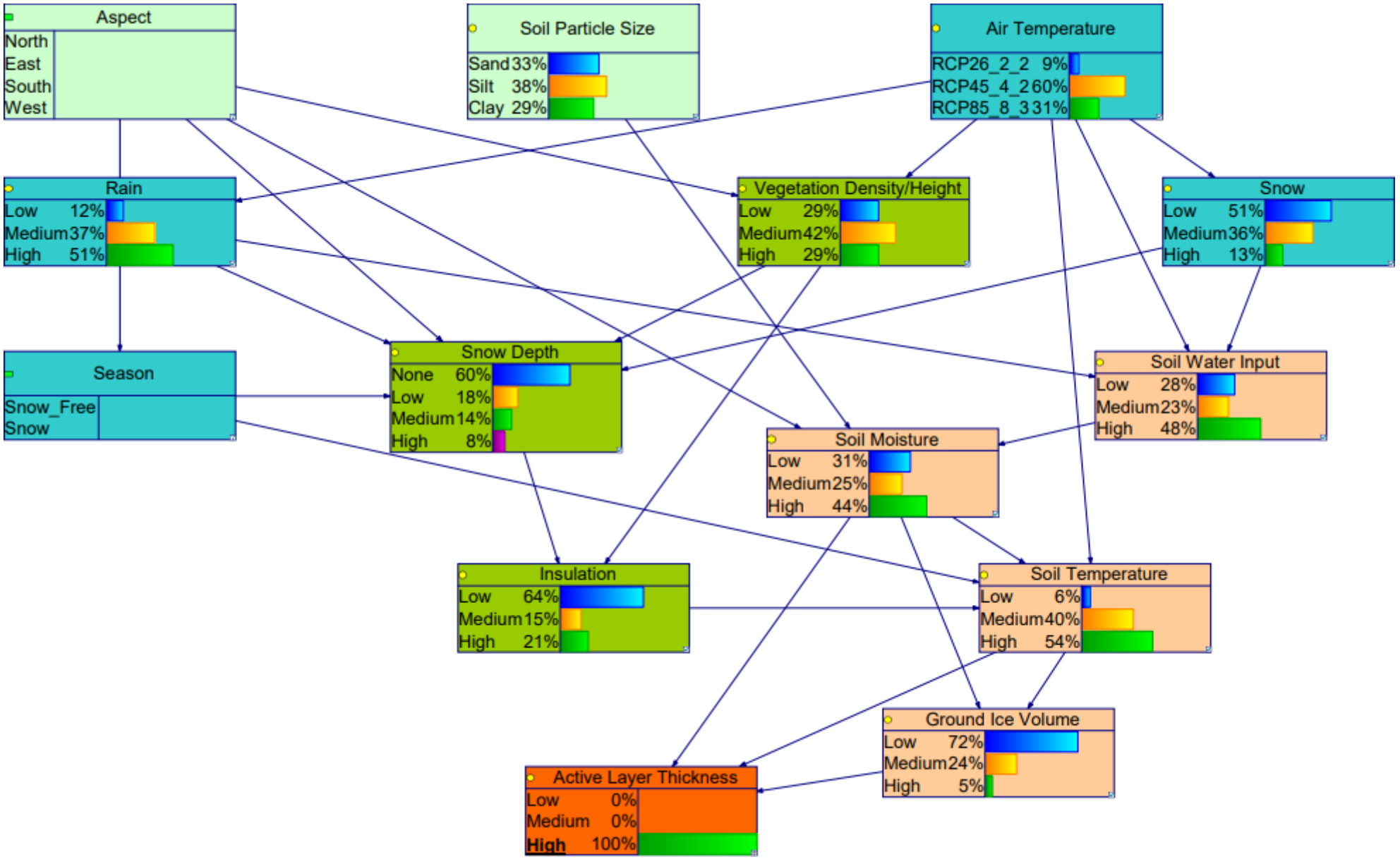
Active Layer Thickness: Low

Nodes Informed: All



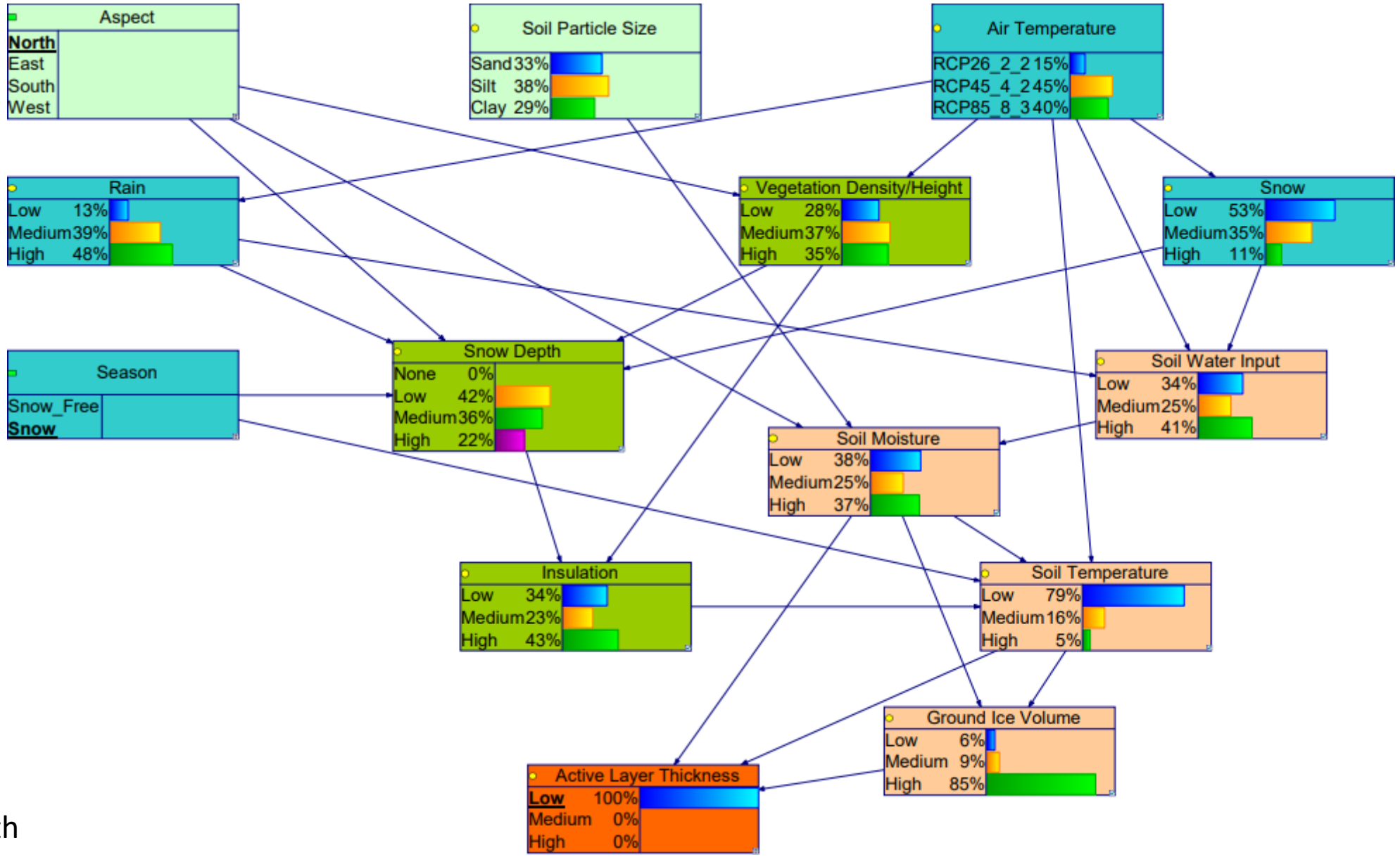
Active Layer Thickness: Medium

Nodes Informed: All



Active Layer Thickness: High

Nodes Informed: All

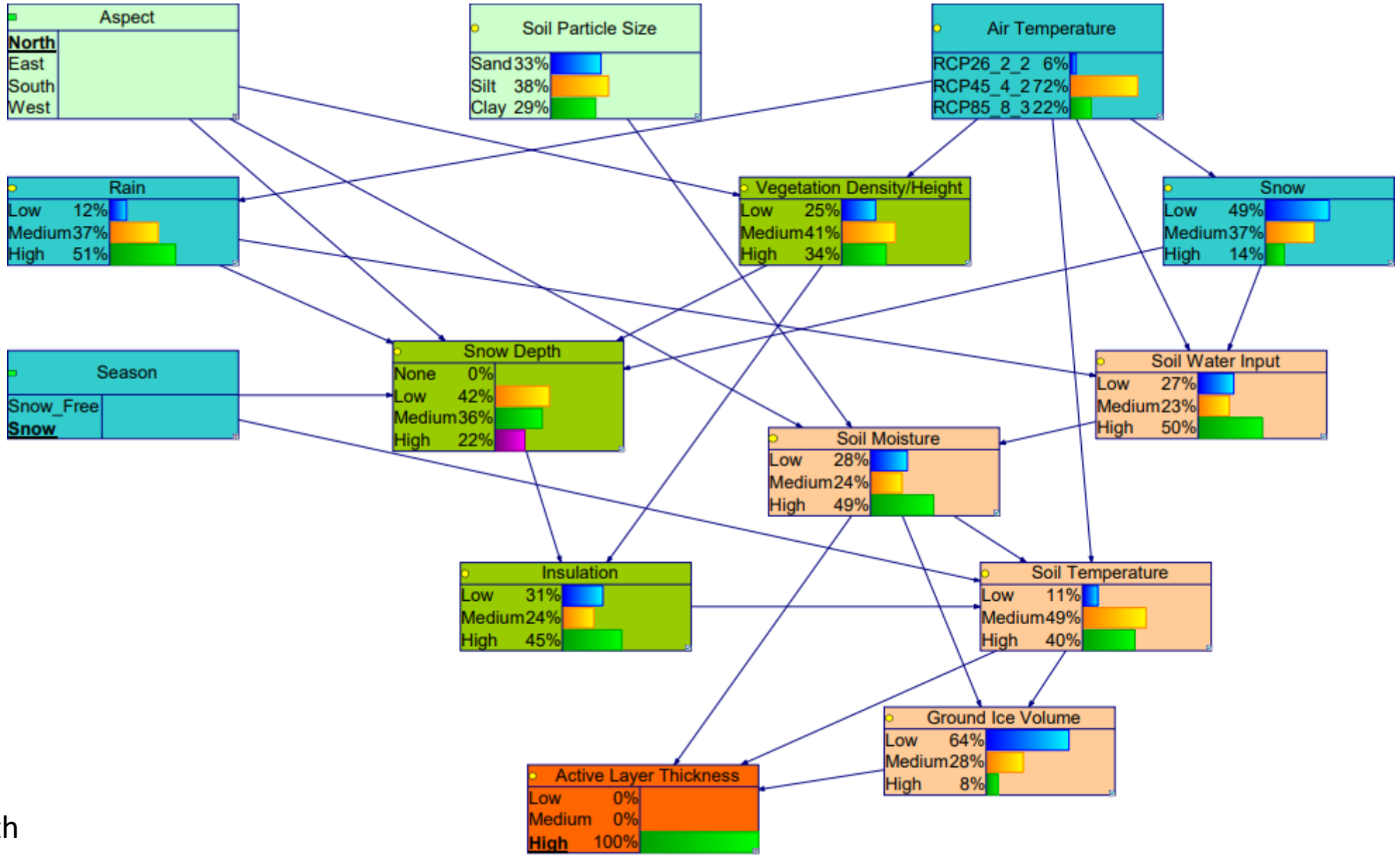


Aspect = North

Season = Snow

Active Layer Thickness: Low

Nodes Informed: All

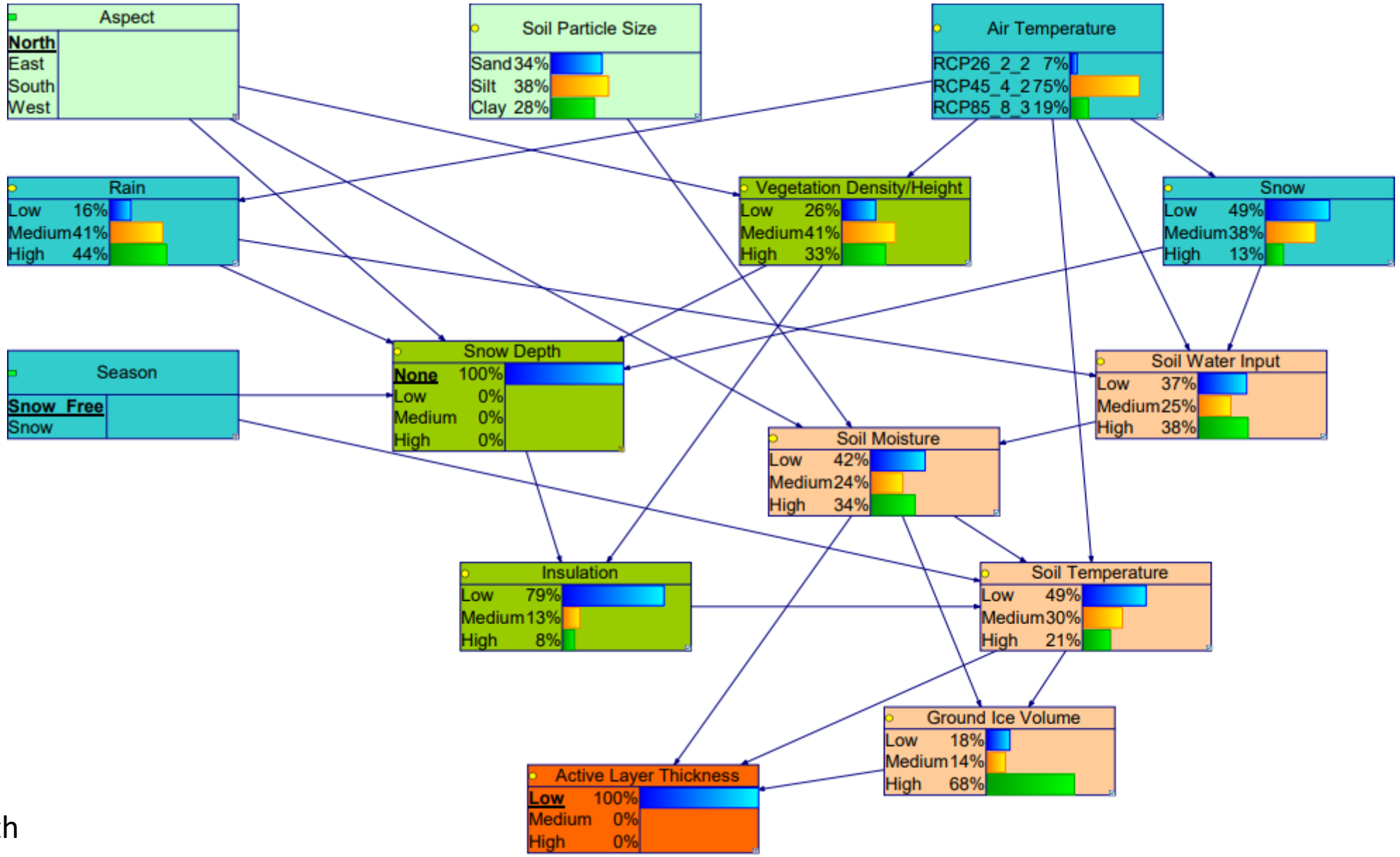


Aspect = North

Season = Snow

Active Layer Thickness: High

Nodes Informed: All

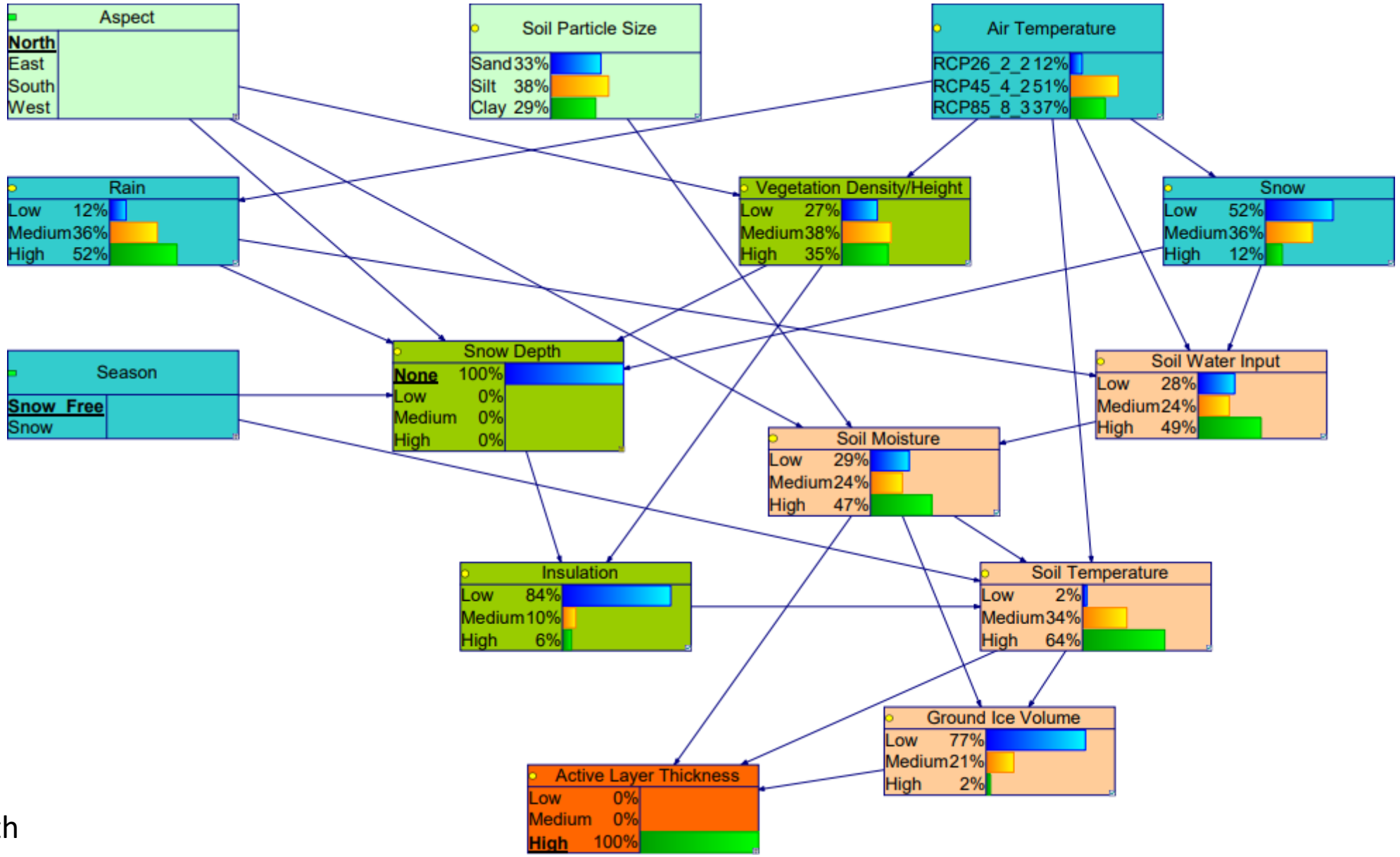


Aspect = North

Season = Snow Free

Active Layer Thickness: Low

Nodes Informed: All

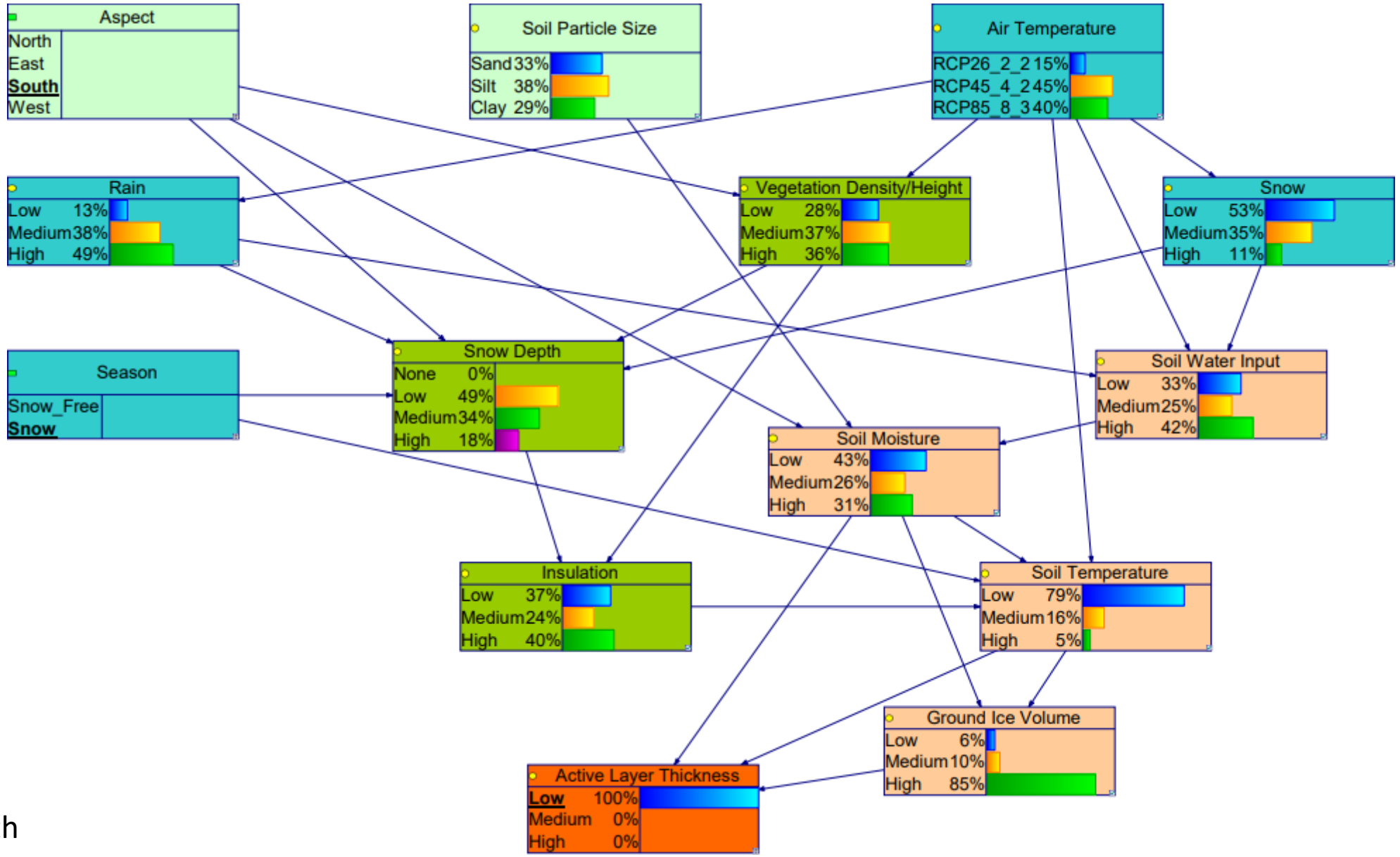


Aspect = North

Season = Snow Free

Active Layer Thickness: High

Nodes Informed: All

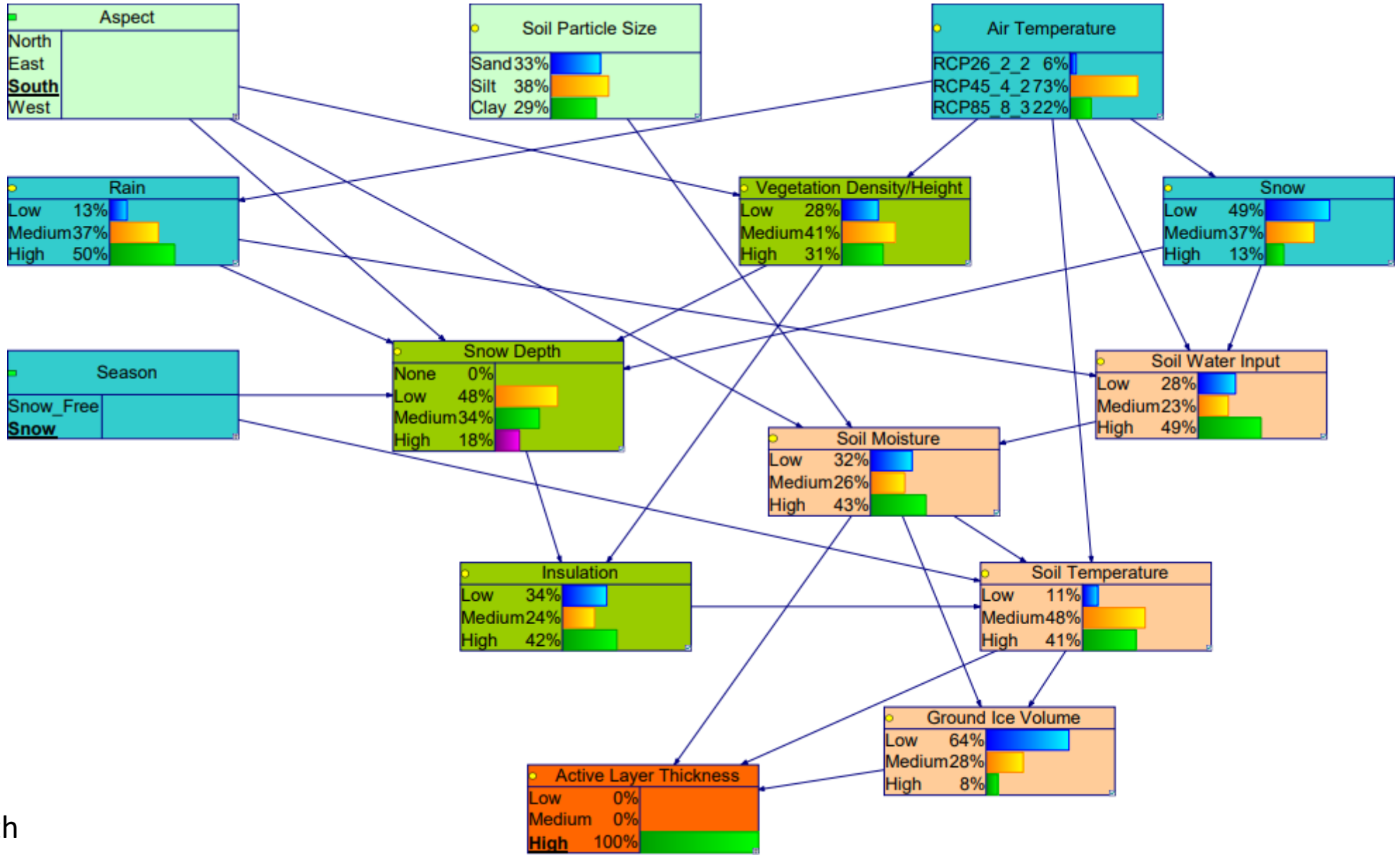


Aspect = South

Season = Snow

Active Layer Thickness: Low

Nodes Informed: All

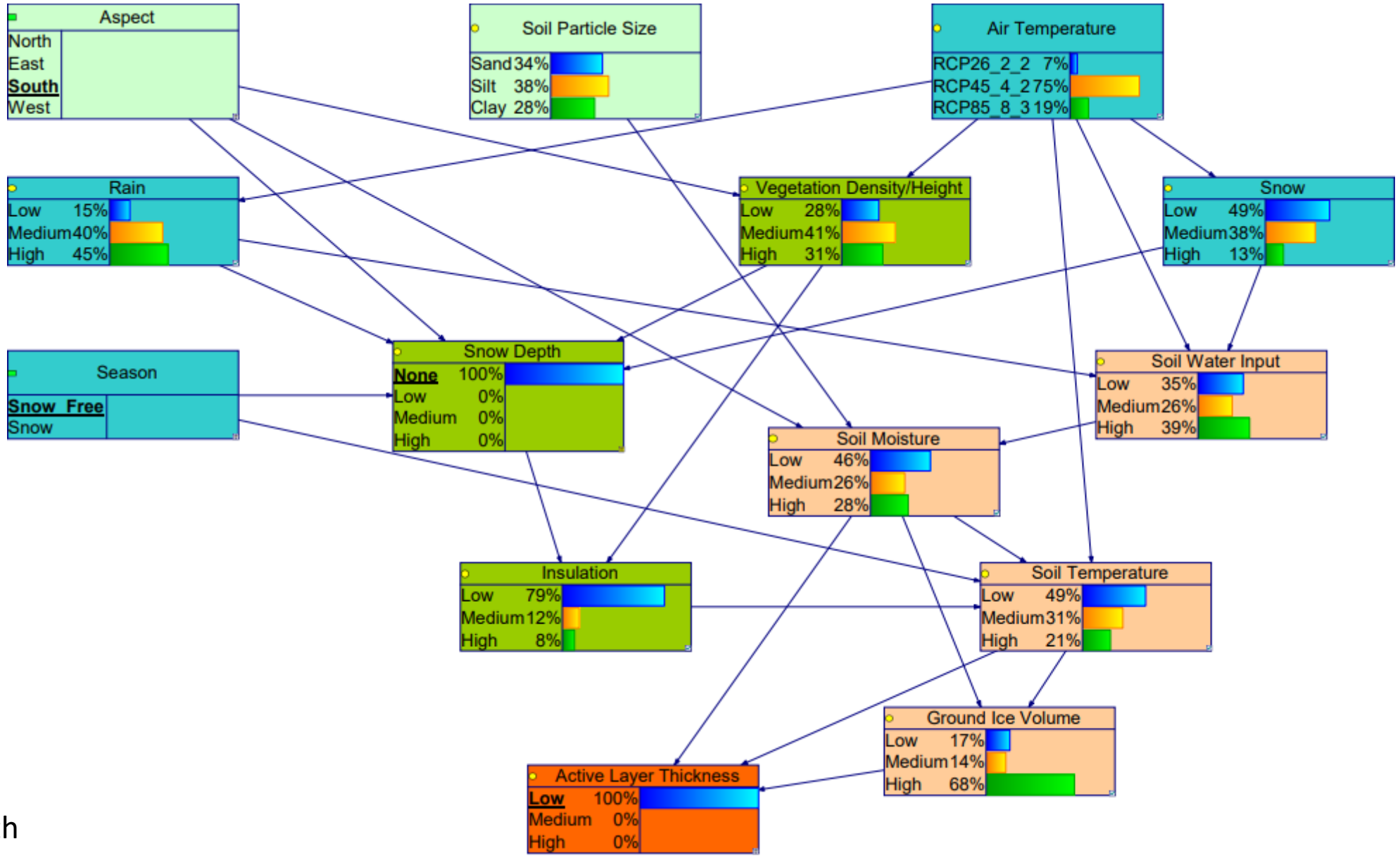


Aspect = South

Season = Snow

Active Layer Thickness: High

Nodes Informed: All

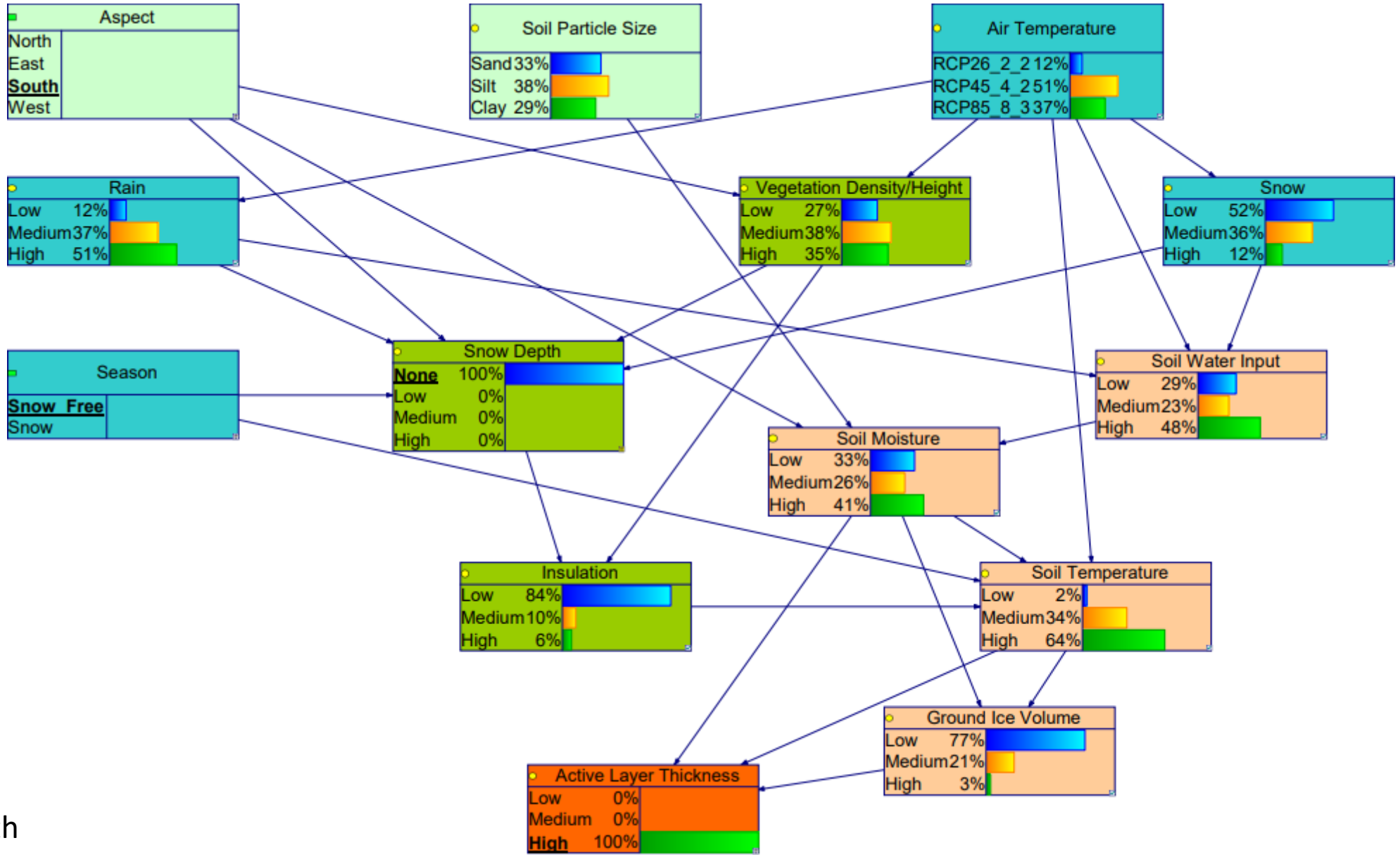


Aspect = South

Season = Snow Free

Active Layer Thickness: Low

Nodes Informed: All

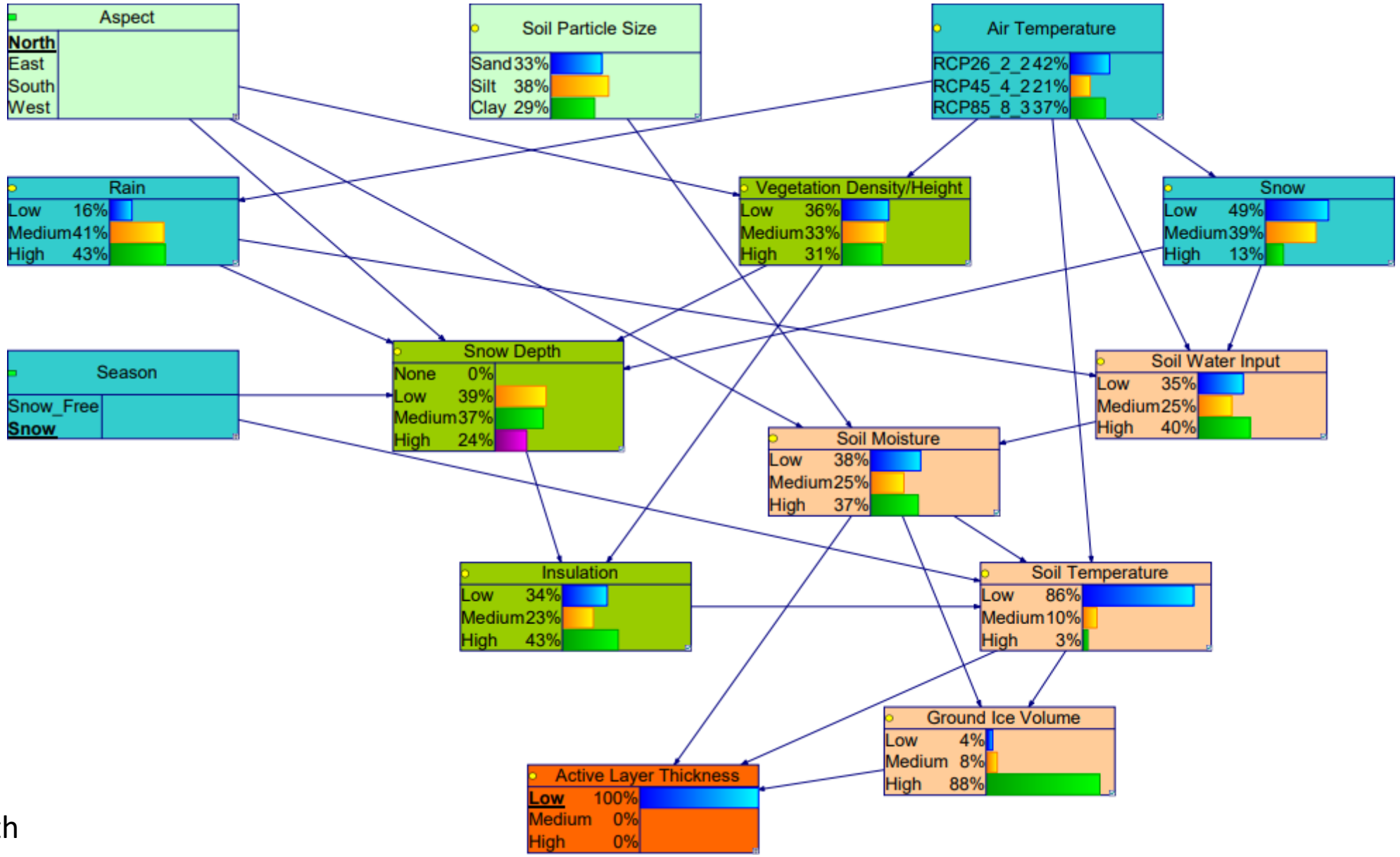


Aspect = South

Season = Snow Free

Active Layer Thickness: High

Nodes Informed: All

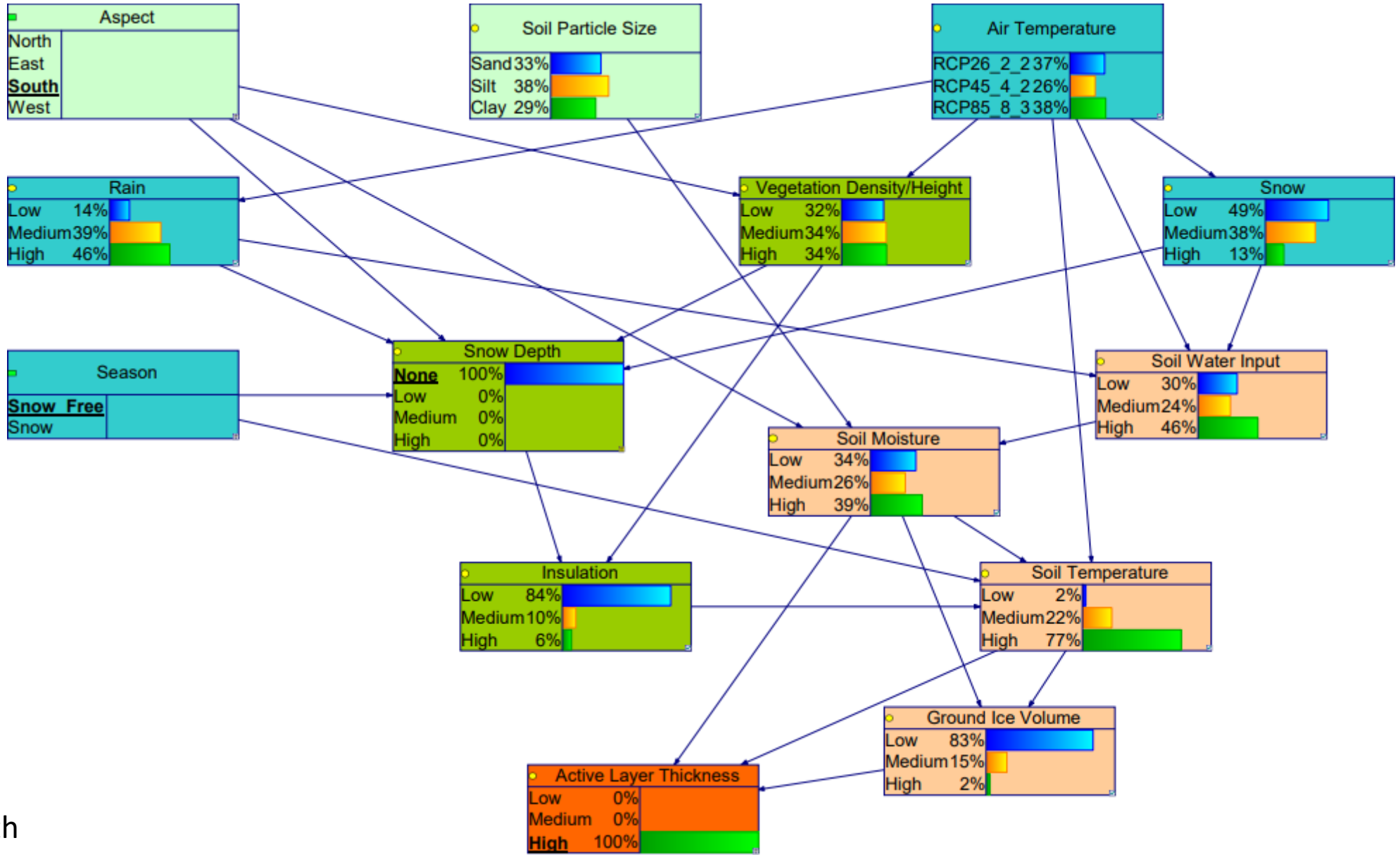


Aspect = North

Season = Snow

Active Layer Thickness: Low

Nodes Informed: All except Air Temperature



Aspect = South

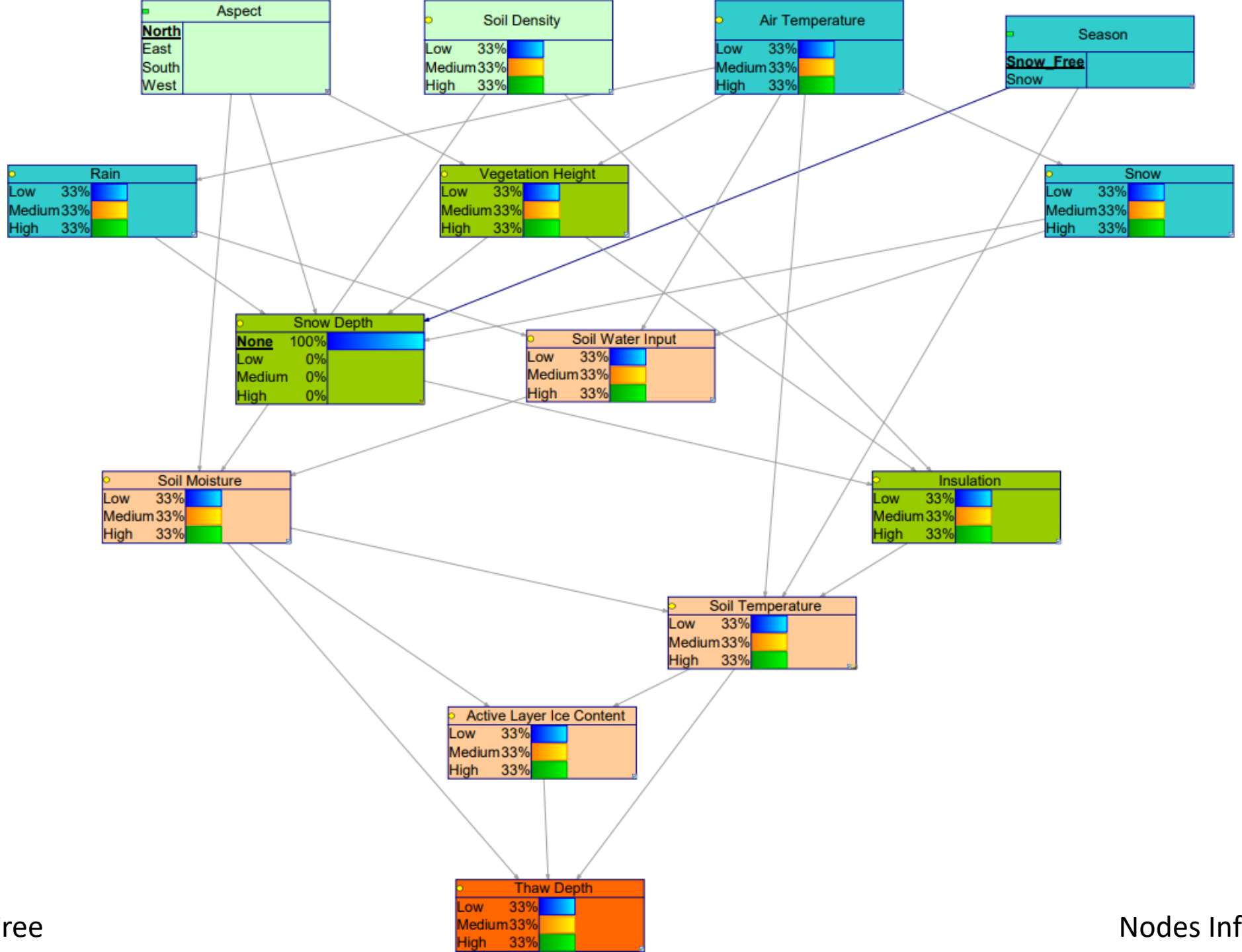
Season = Snow Free

Active Layer Thickness: High

Nodes Informed: All except Air Temperature

Expert Assessment Validation

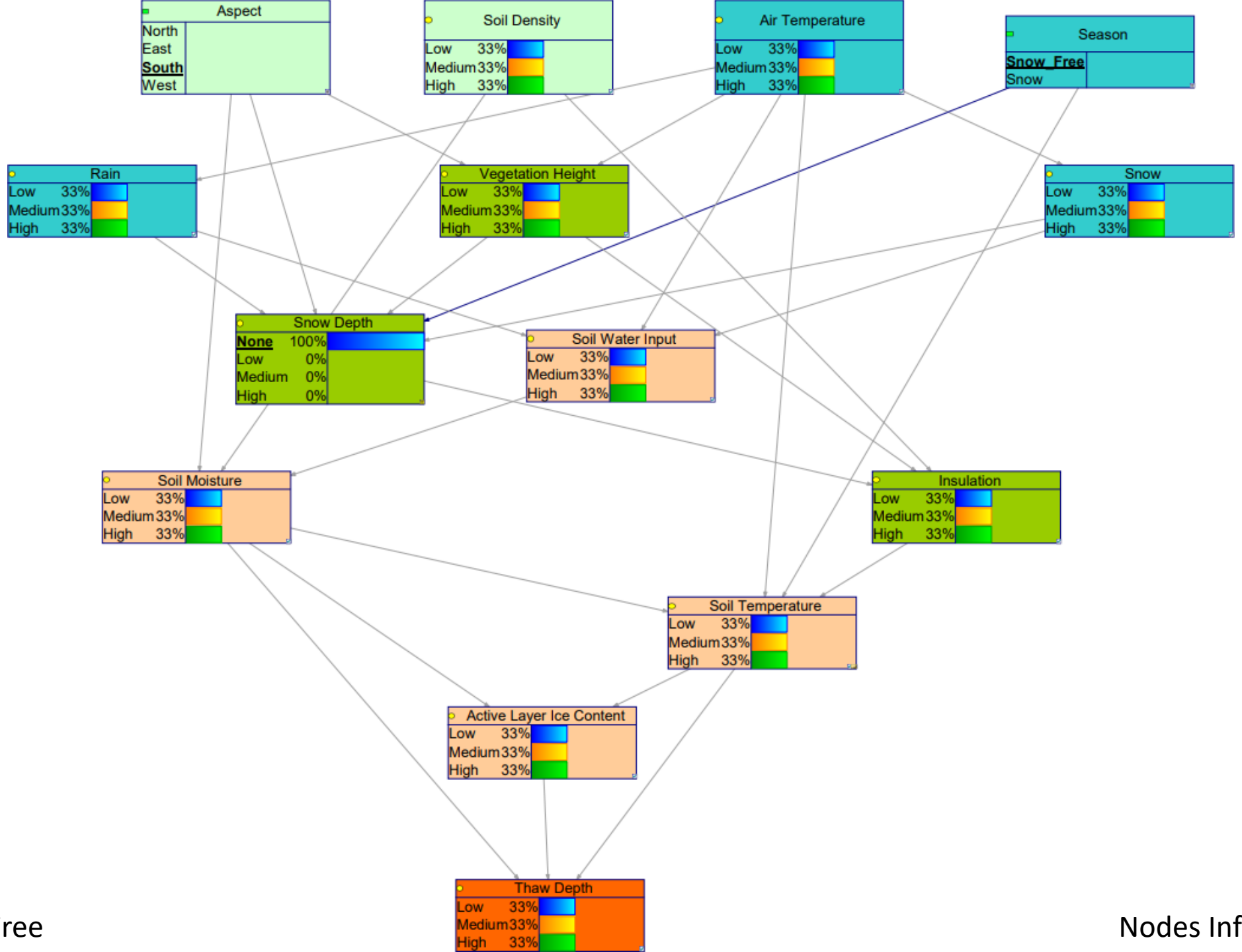
Prognosis



Aspect = North

Season = Snow Free

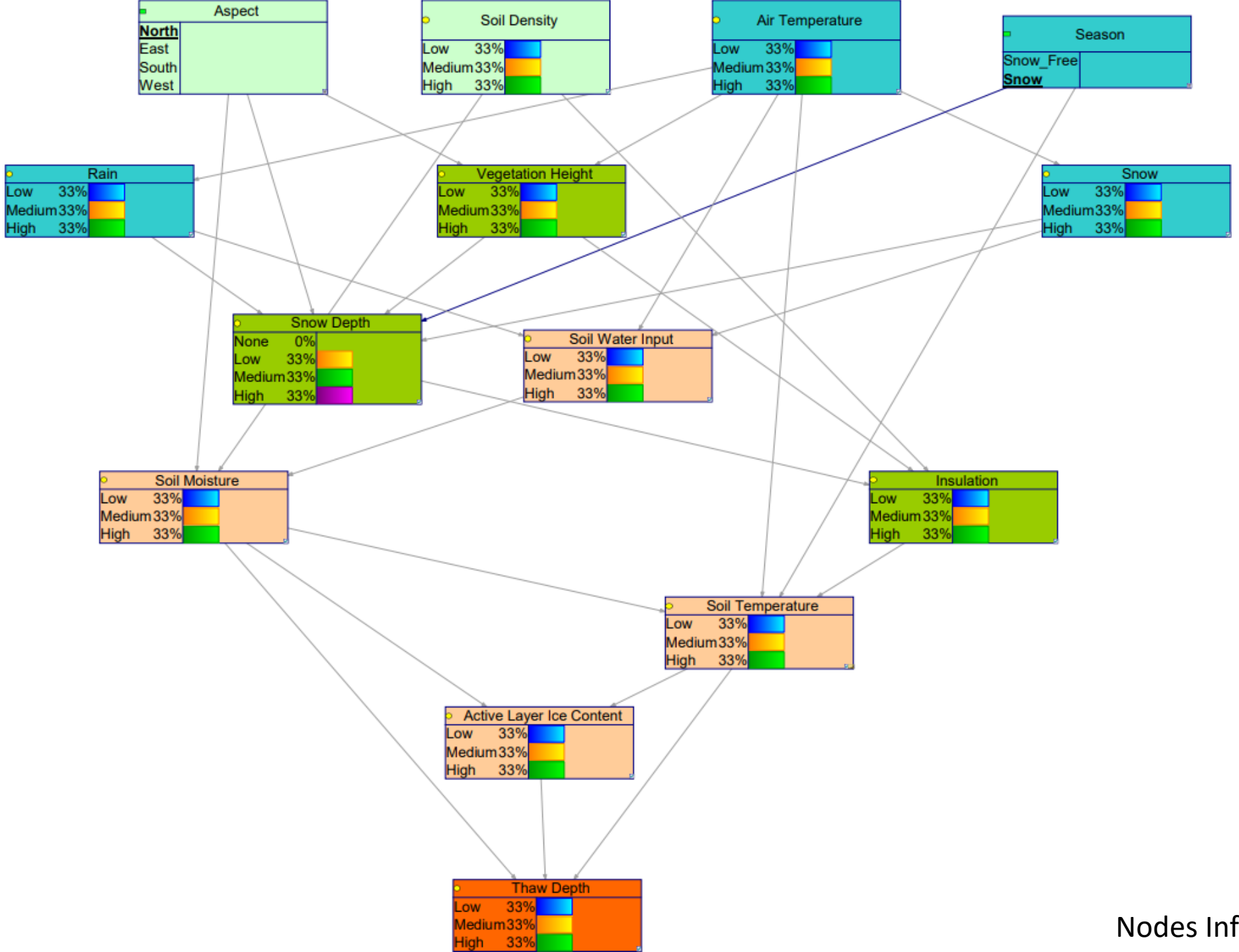
Nodes Informed: None



Aspect = South

Season = Snow Free

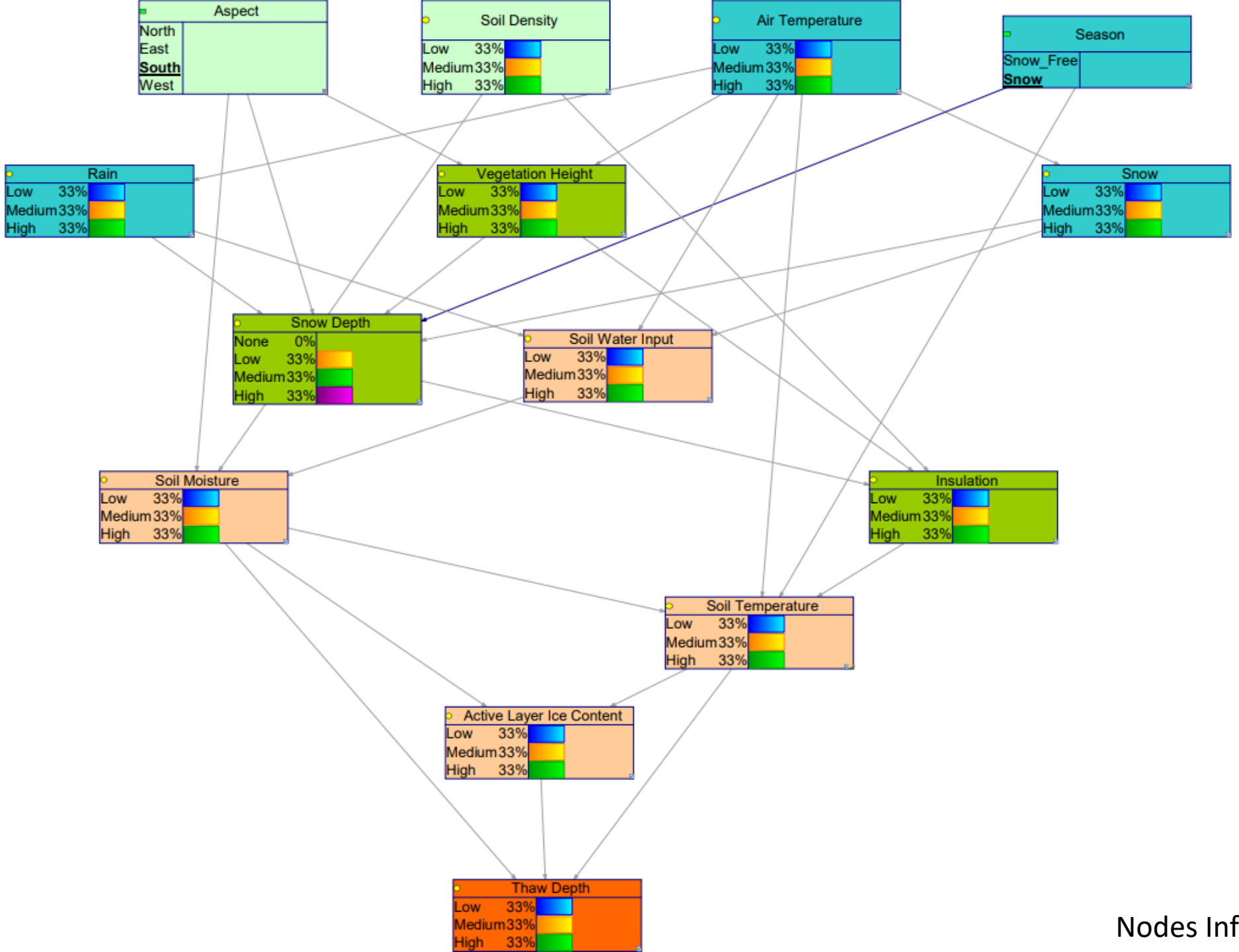
Nodes Informed: None



Aspect = North

Season = Snow

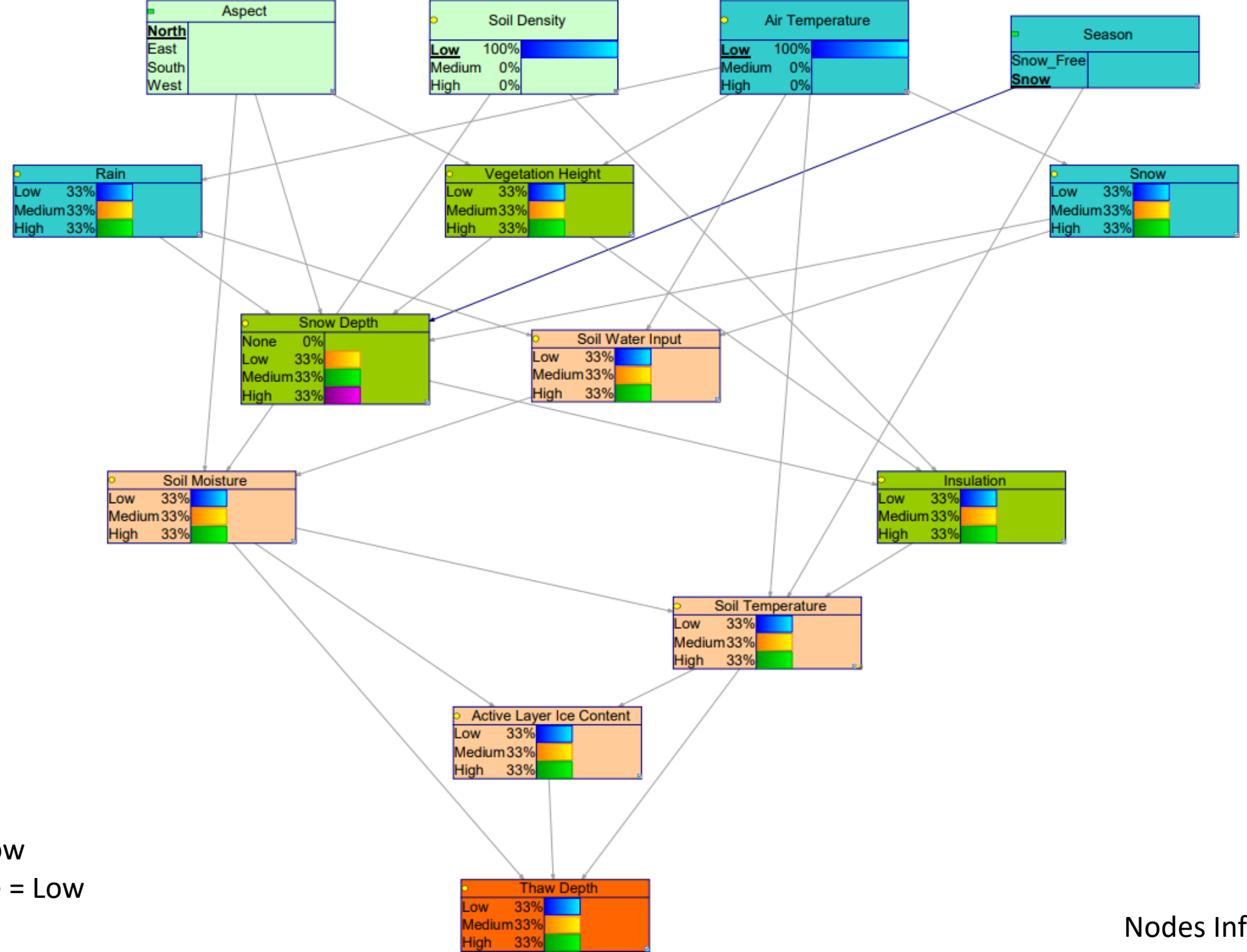
Nodes Informed: None



Aspect = South

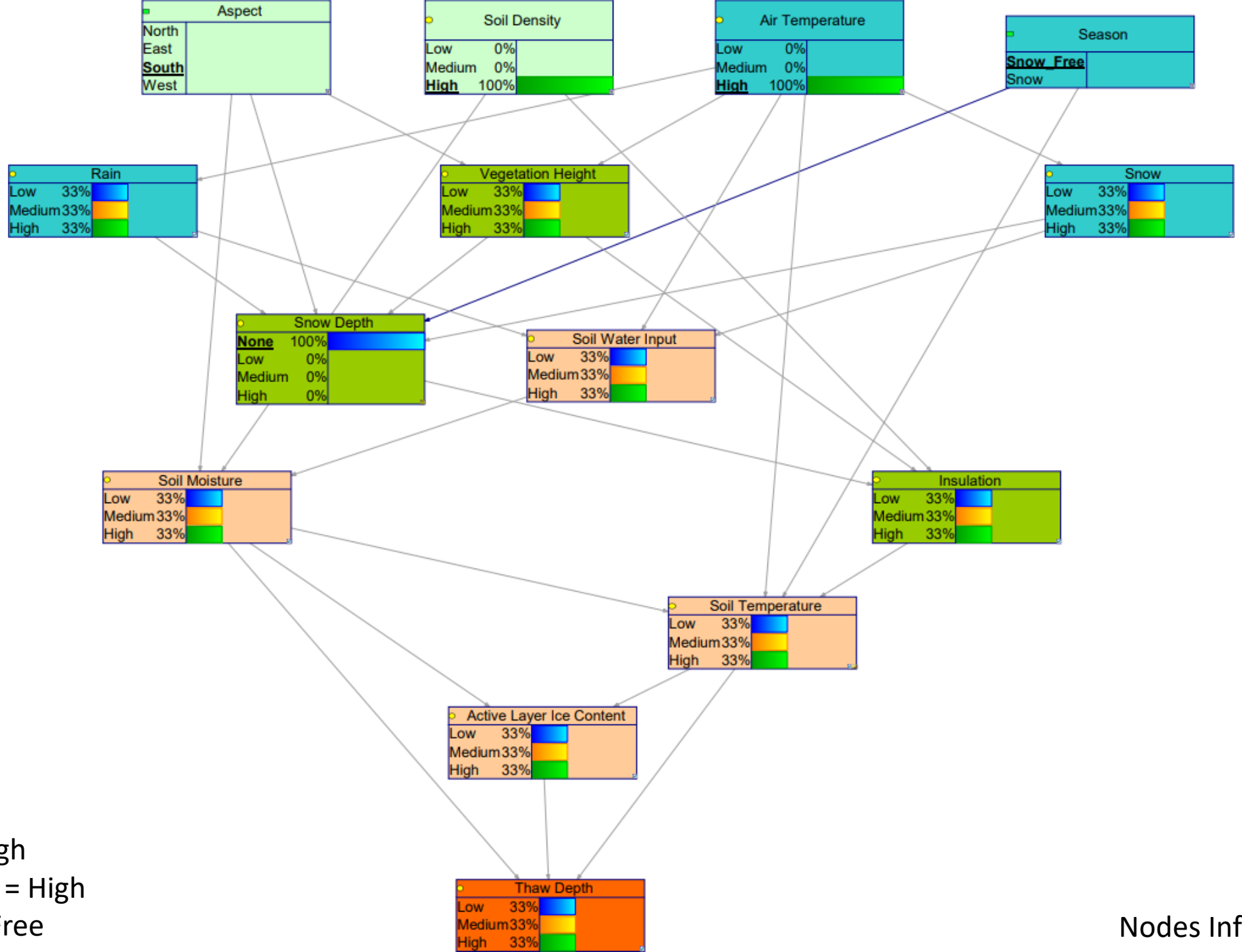
Season = Snow

Nodes Informed: None



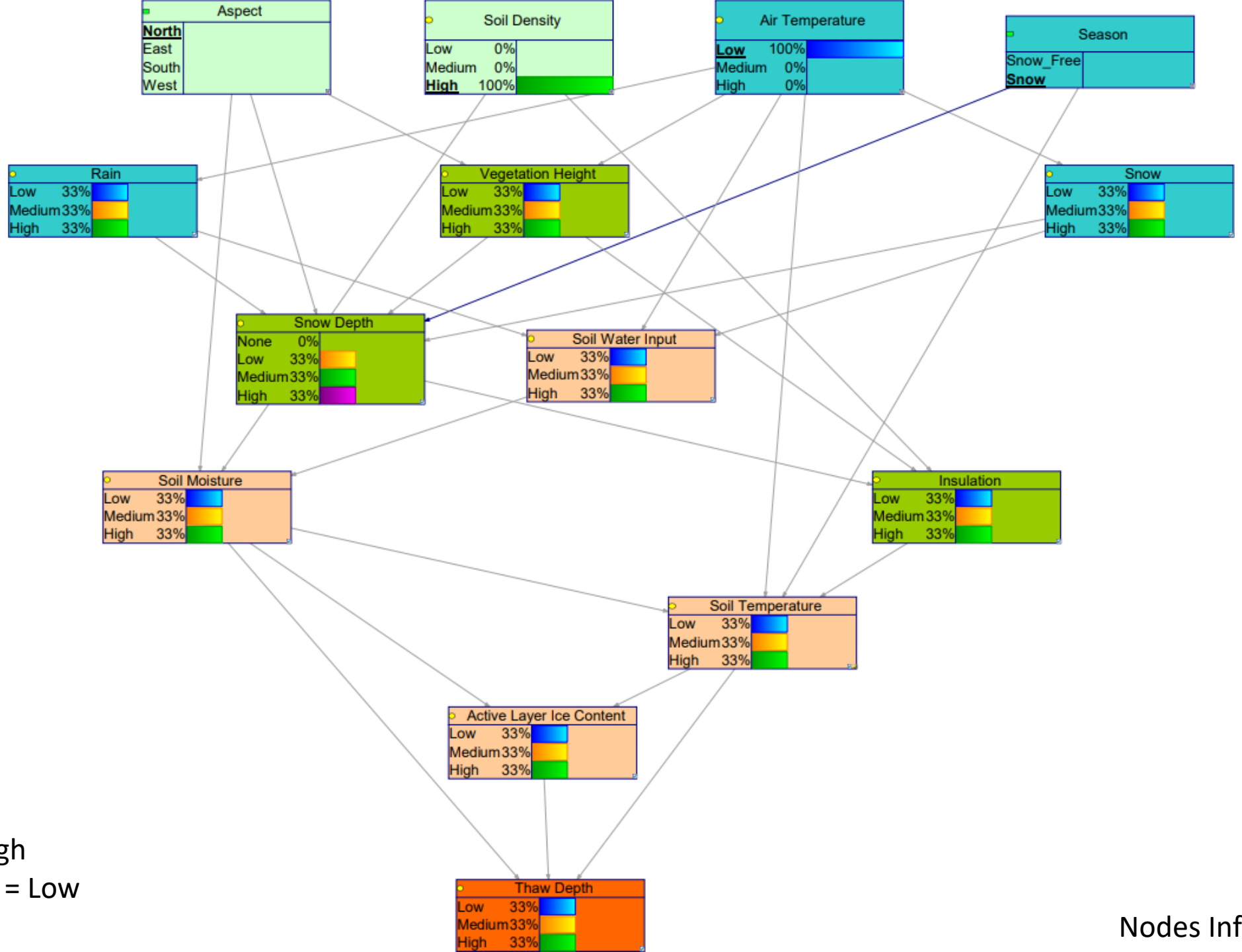
Aspect = North
Soil Density = Low
Air Temperature = Low
Season = Snow

Nodes Informed: None



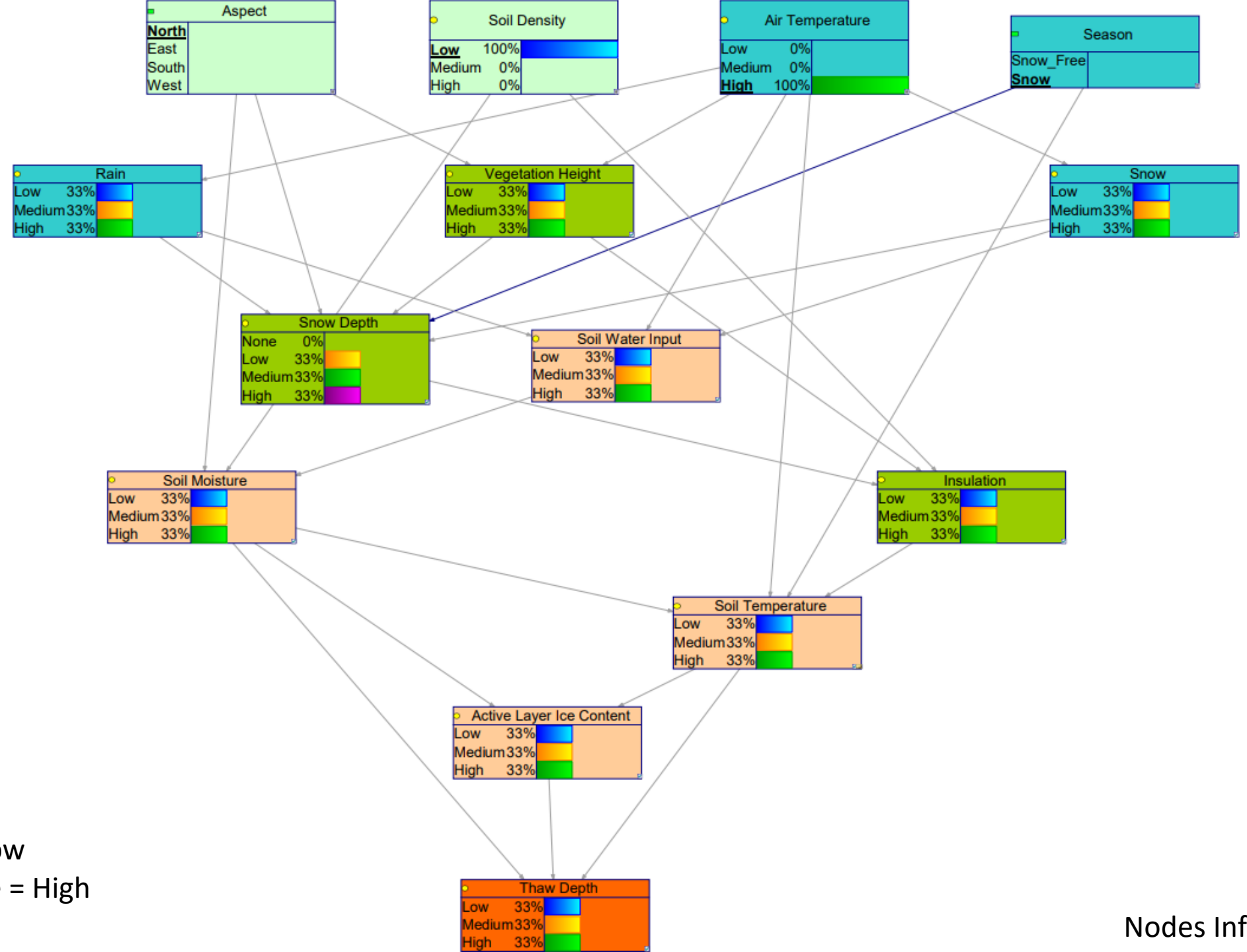
Aspect = South
Soil Density = High
Air Temperature = High
Season = Snow Free

Nodes Informed: None



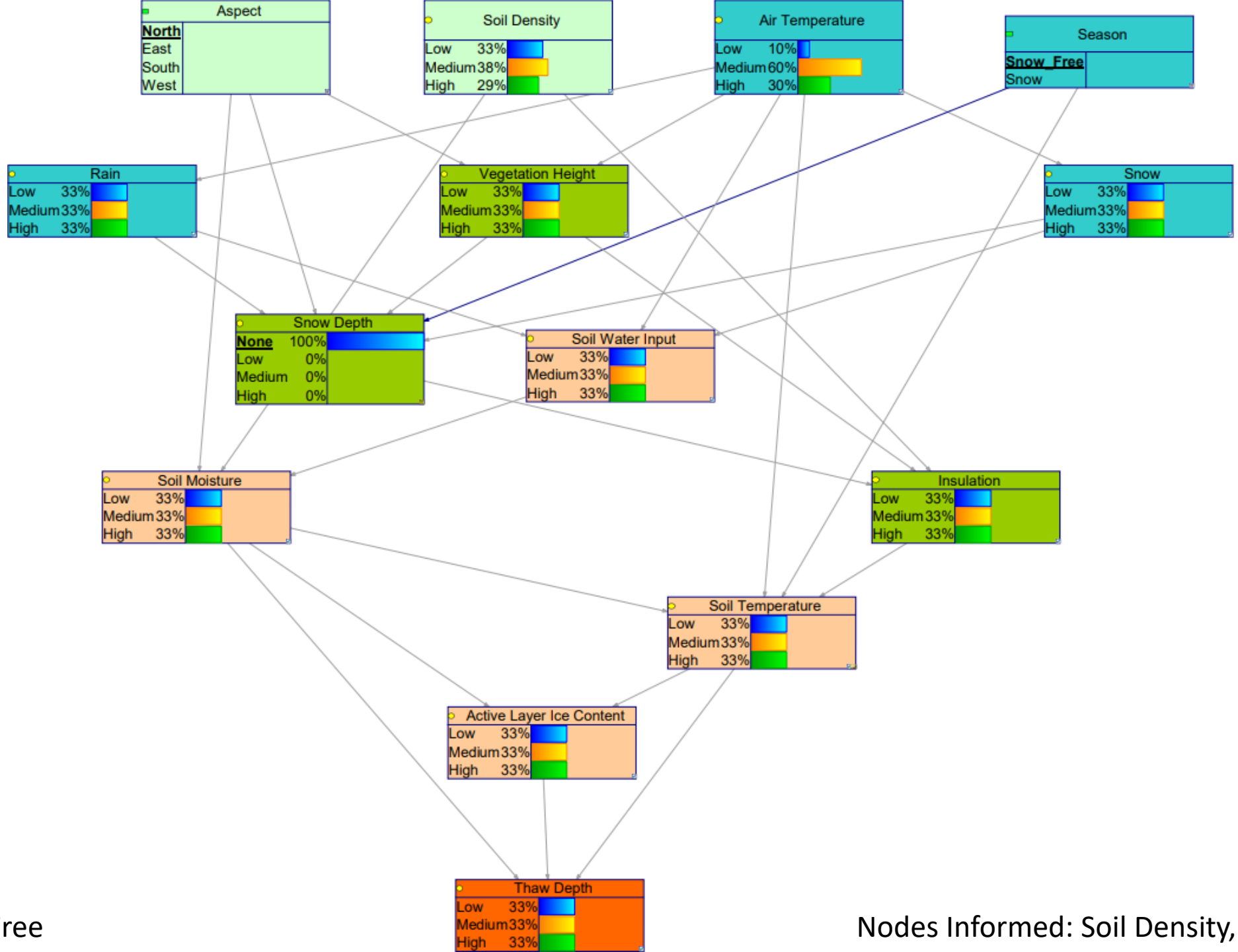
Aspect = North
Soil Density = High
Air Temperature = Low
Season = Snow

Nodes Informed: None



Aspect = North
Soil Density = Low
Air Temperature = High
Season = Snow

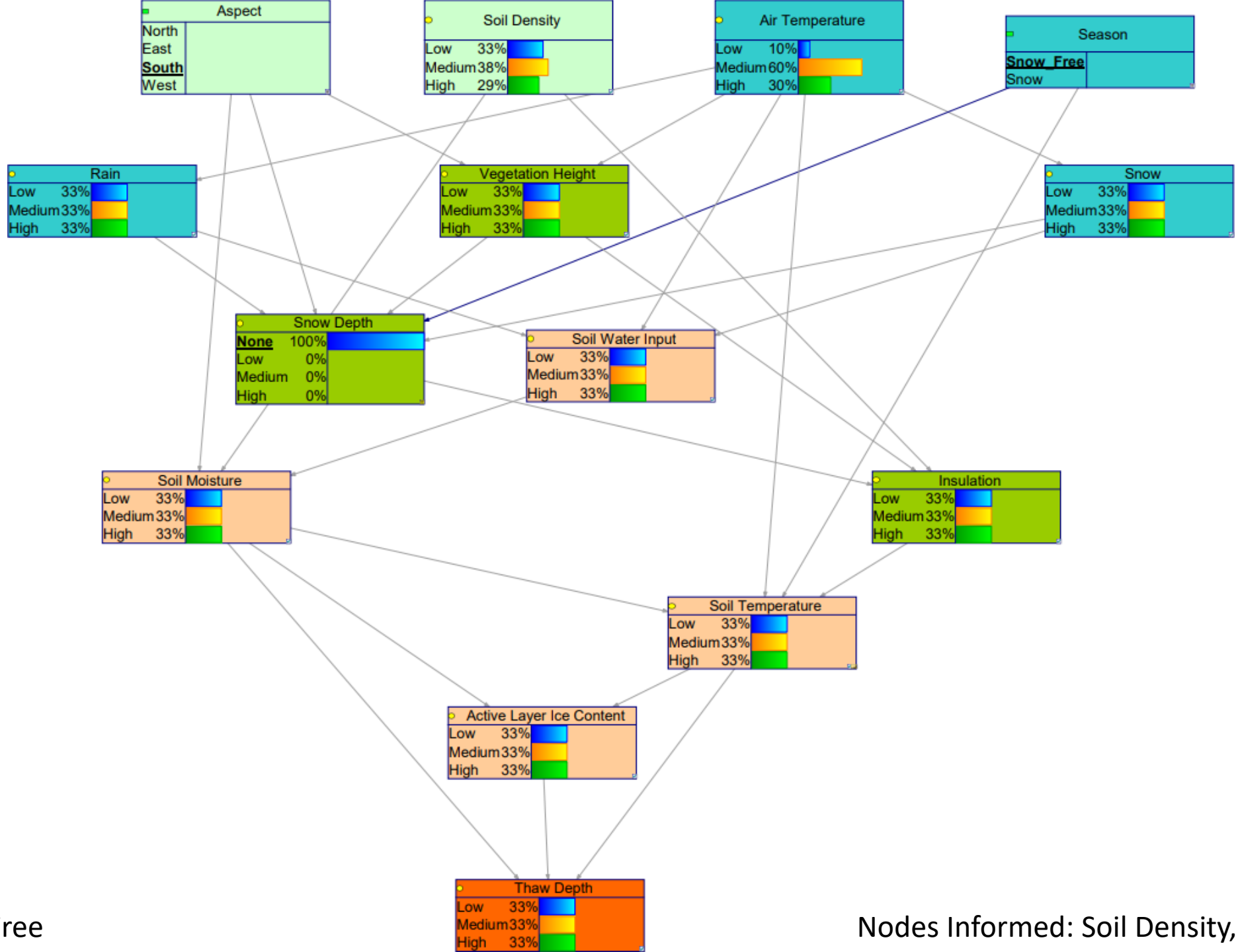
Nodes Informed: None



Aspect = North

Season = Snow Free

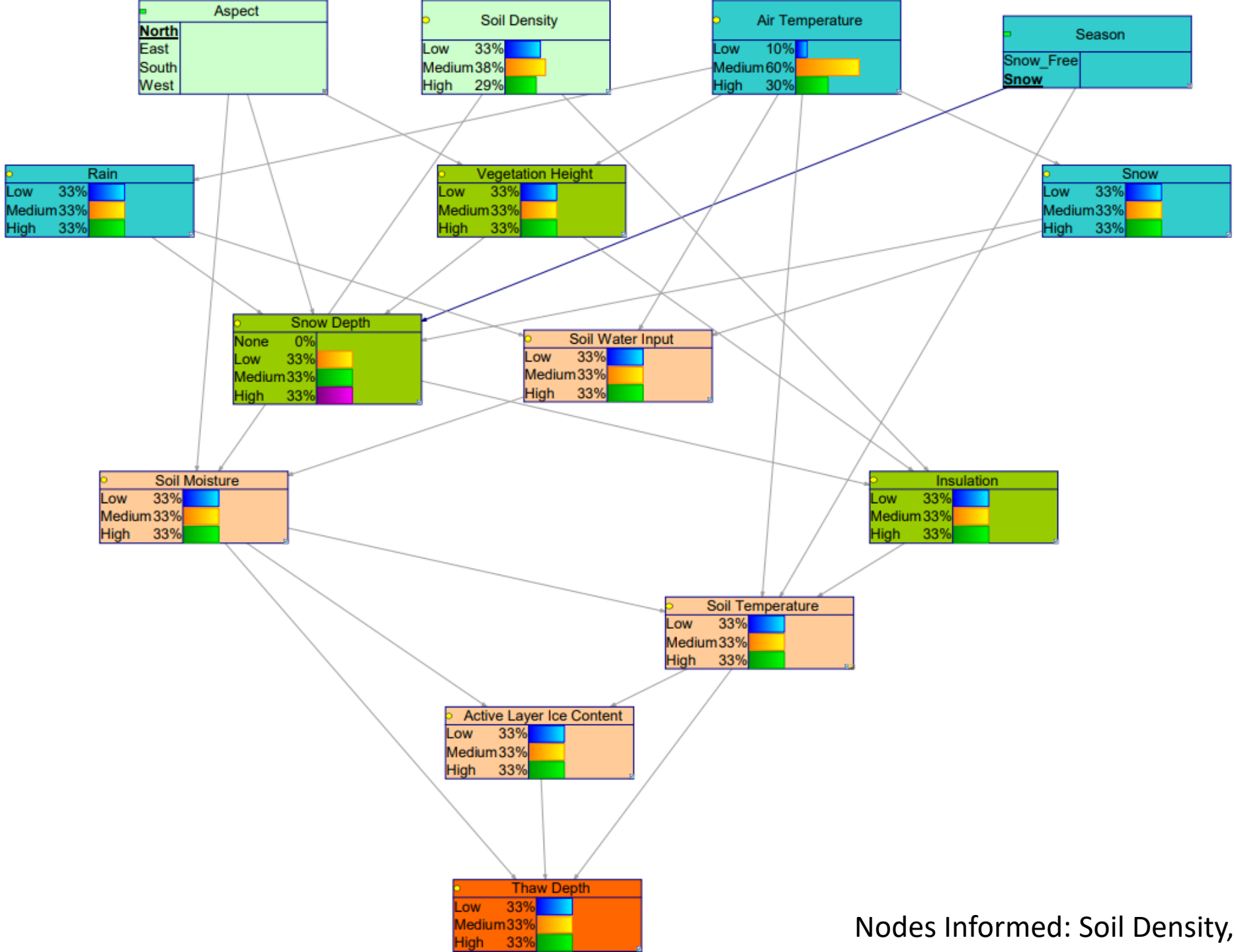
Nodes Informed: Soil Density, Air Temperature



Aspect = South

Season = Snow Free

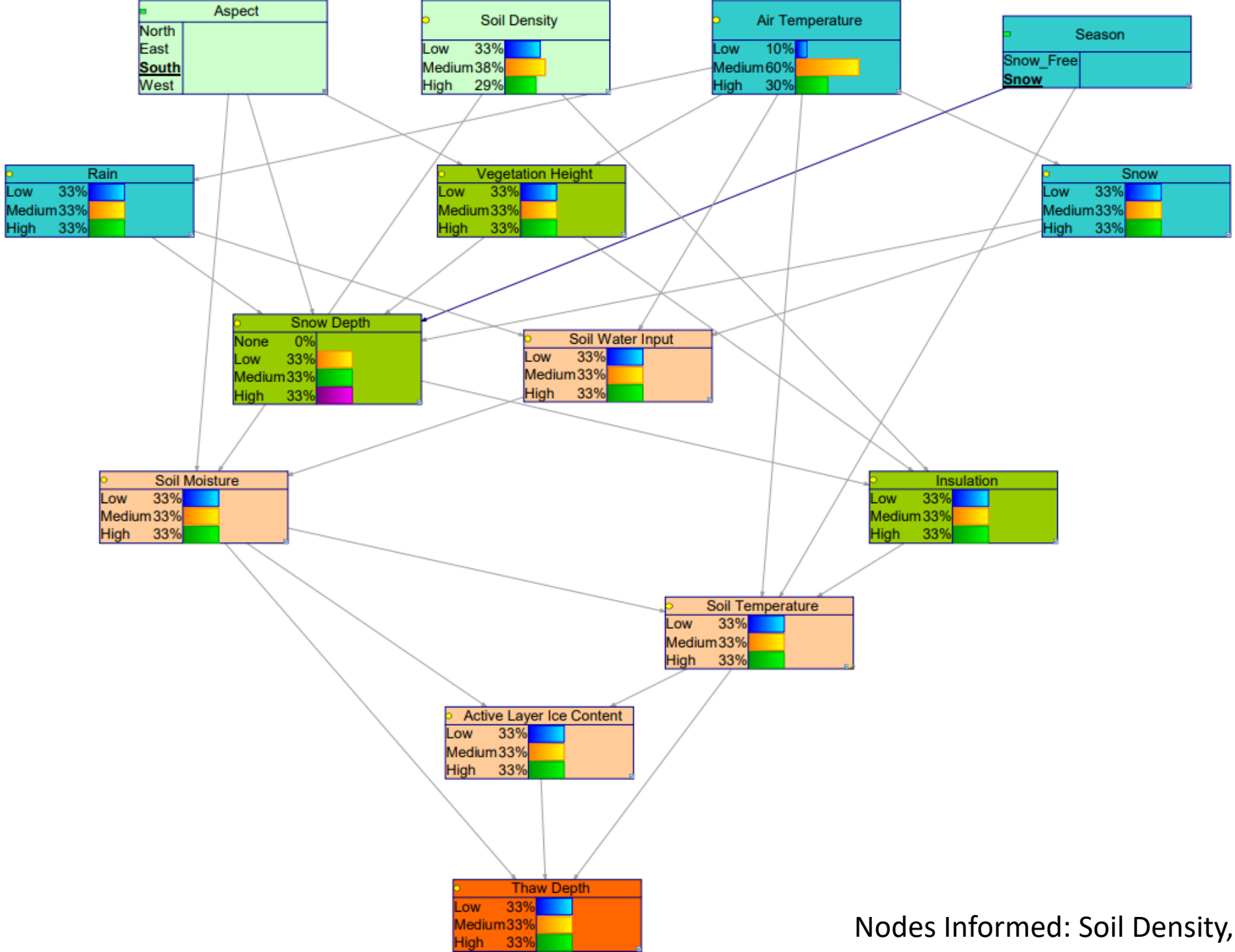
Nodes Informed: Soil Density, Air Temperature



Aspect = North

Season = Snow

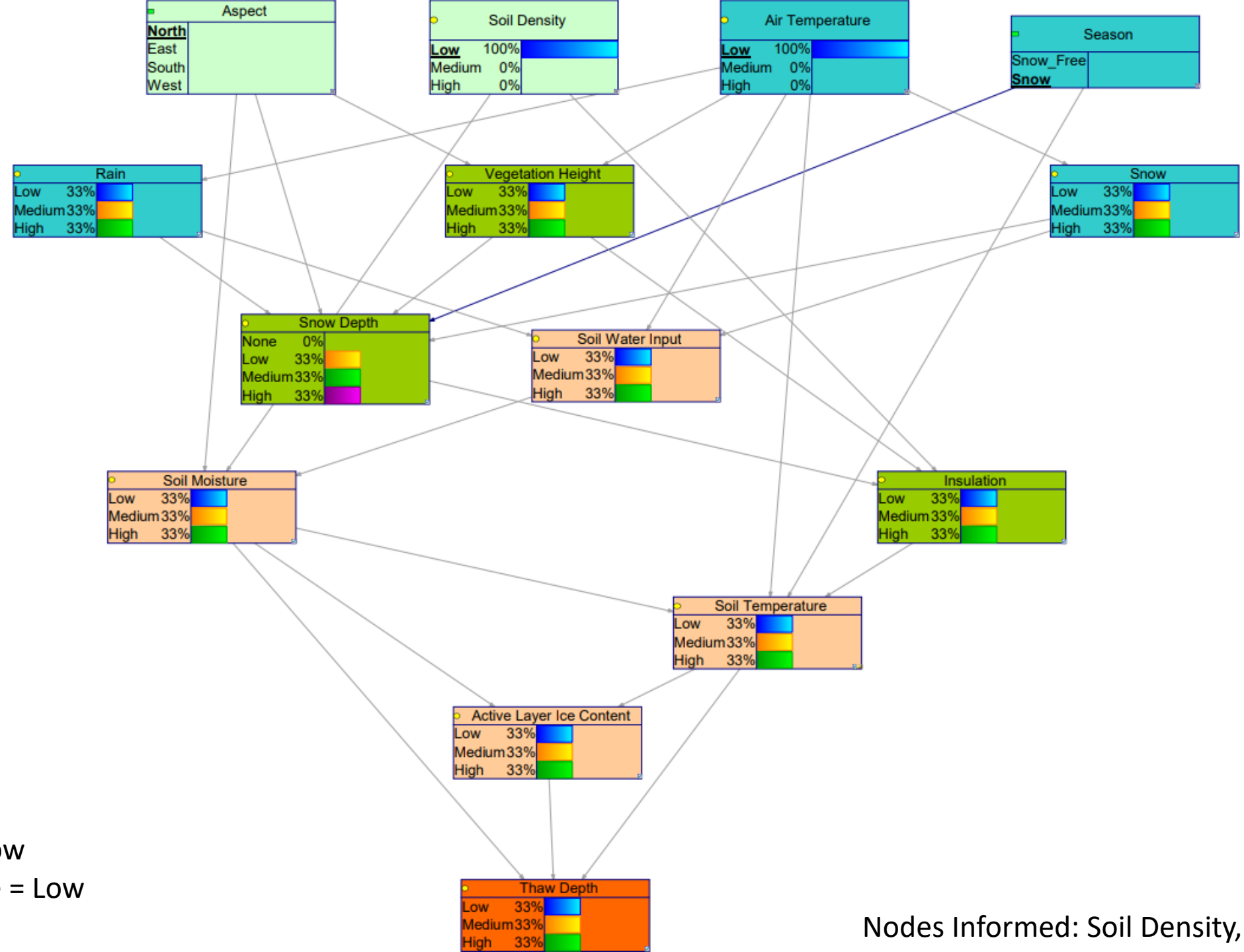
Nodes Informed: Soil Density, Air Temperature



Aspect = South

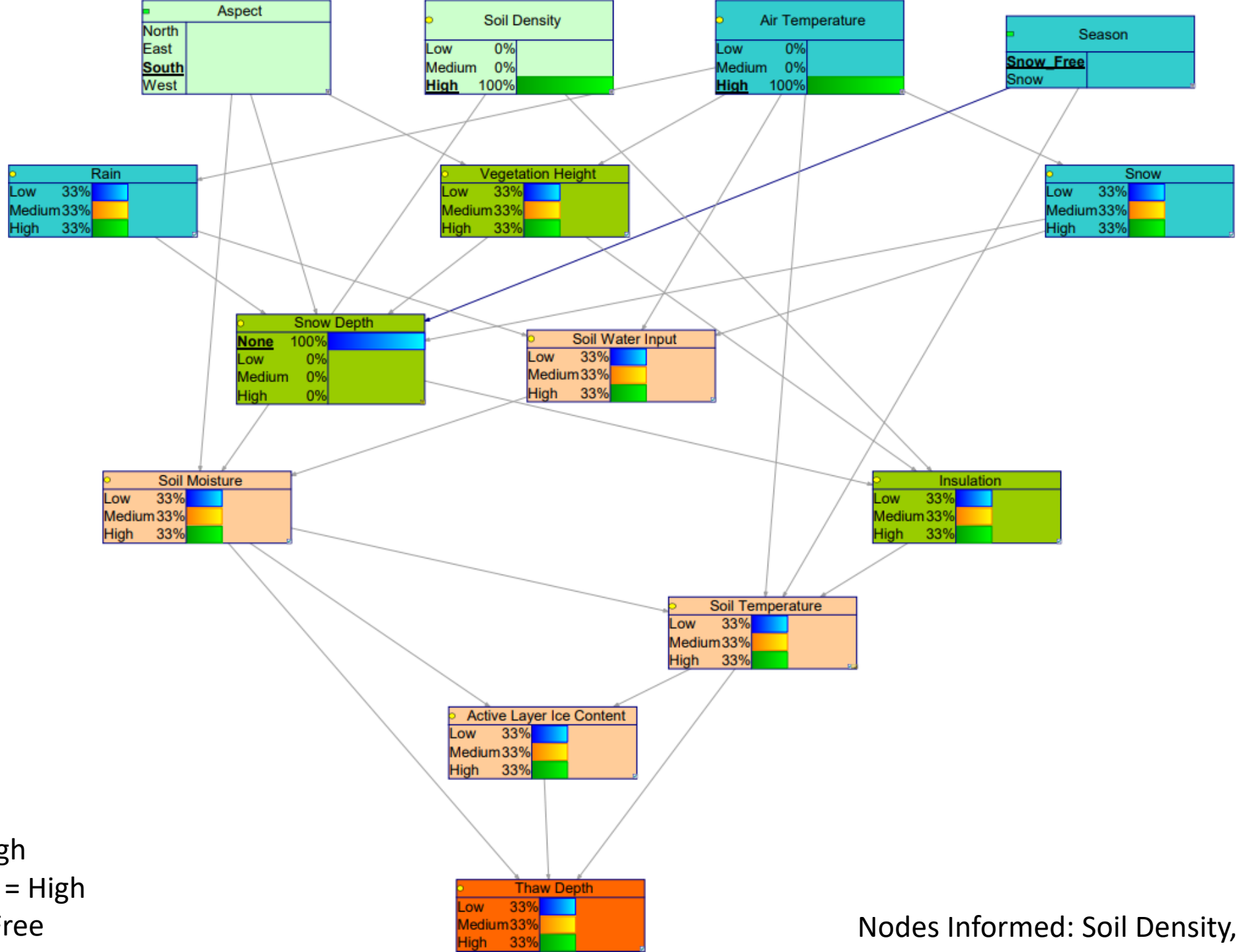
Season = Snow

Nodes Informed: Soil Density, Air Temperature



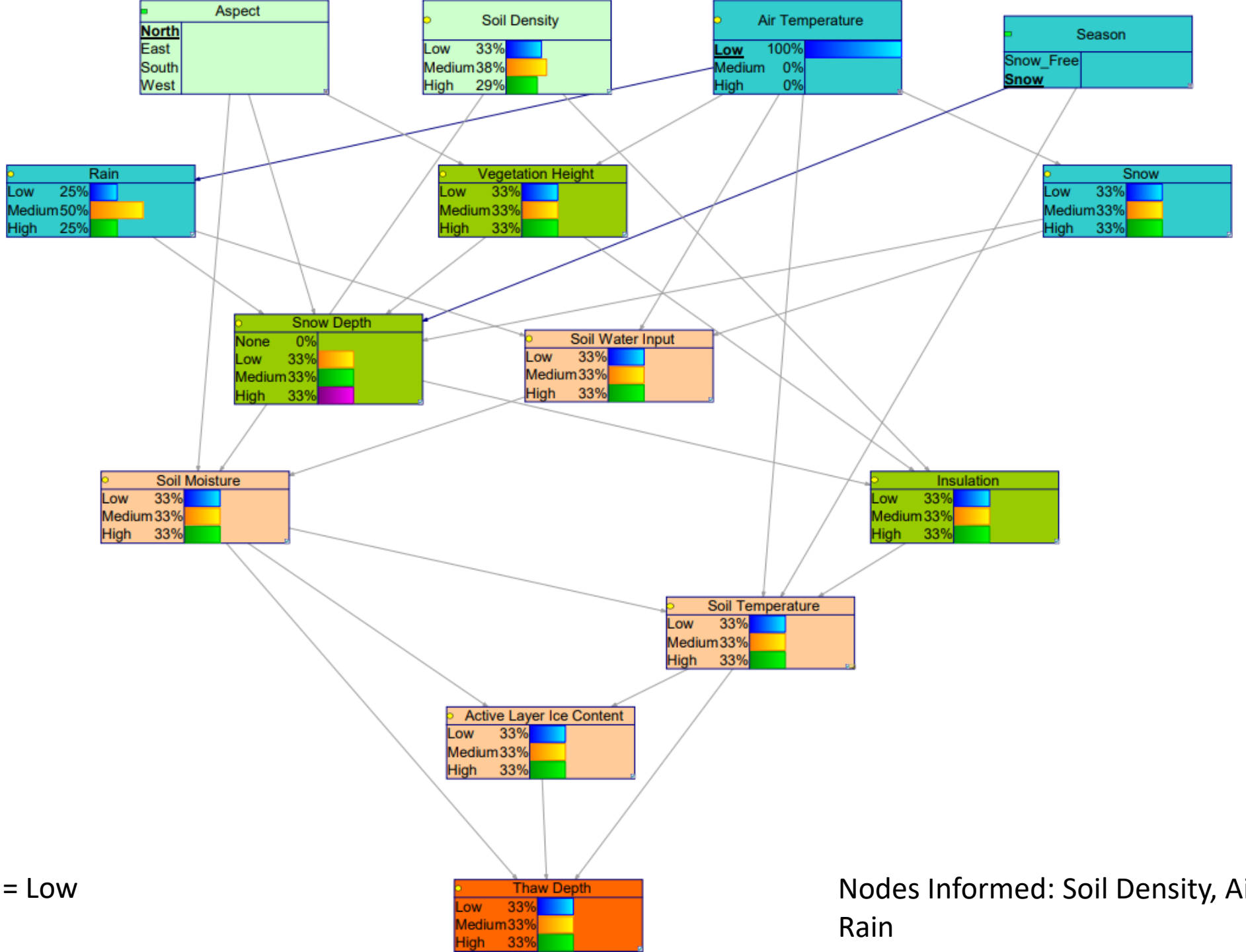
Aspect = North
Soil Density = Low
Air Temperature = Low
Season = Snow

Nodes Informed: Soil Density, Air Temperature



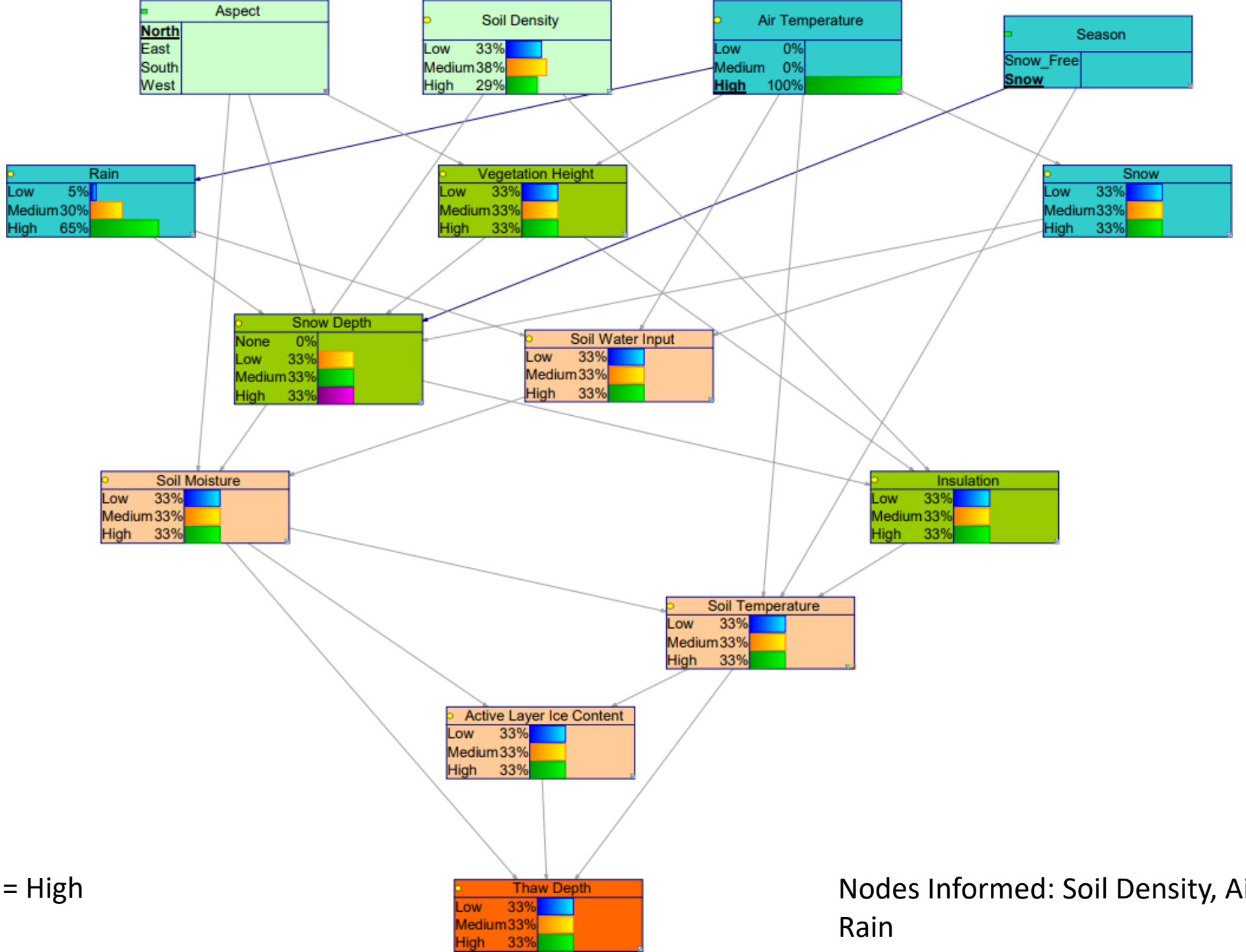
Aspect = South
Soil Density = High
Air Temperature = High
Season = Snow Free

Nodes Informed: Soil Density, Air Temperature



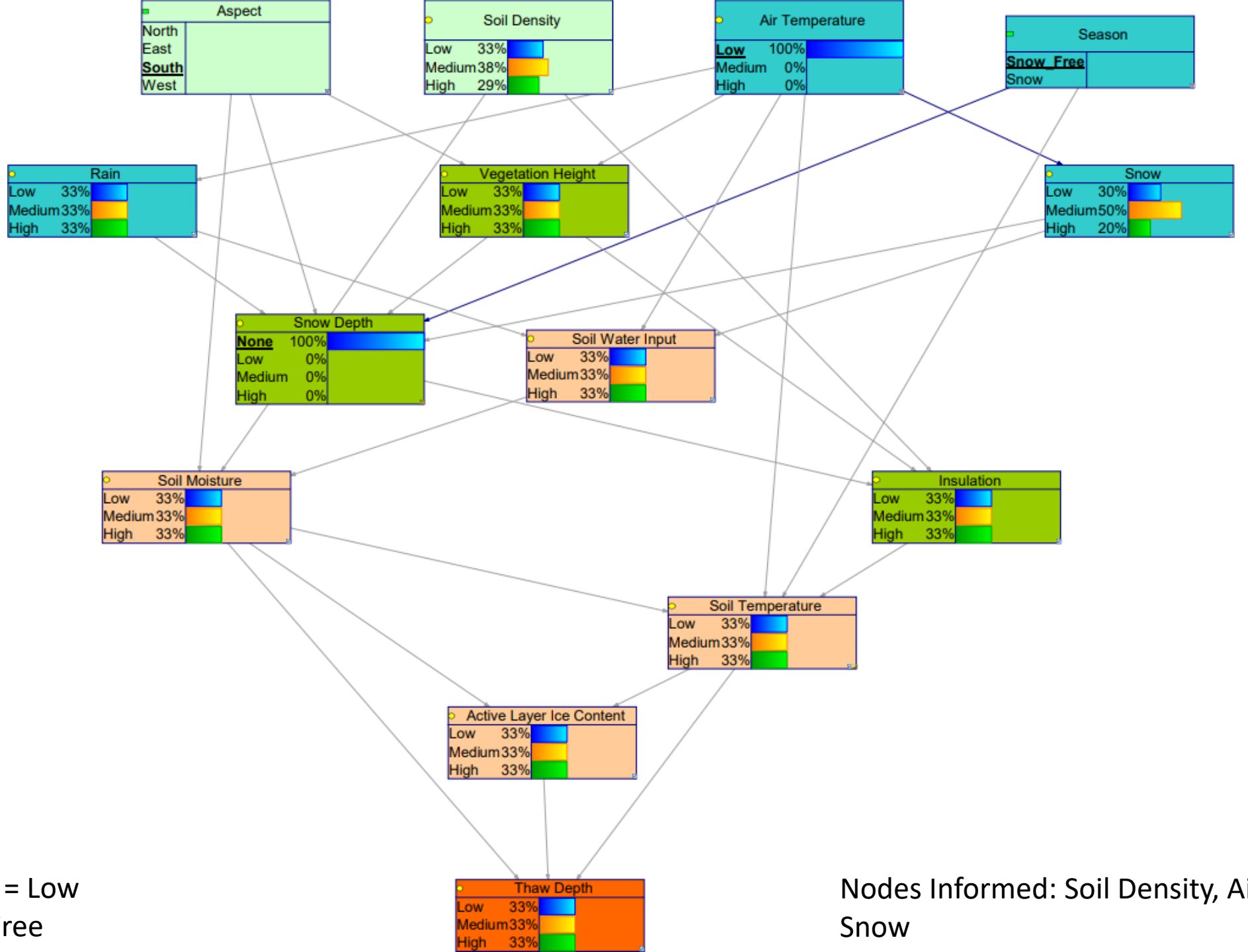
Aspect = North
Air Temperature = Low
Season = Snow

Nodes Informed: Soil Density, Air Temperature, Rain



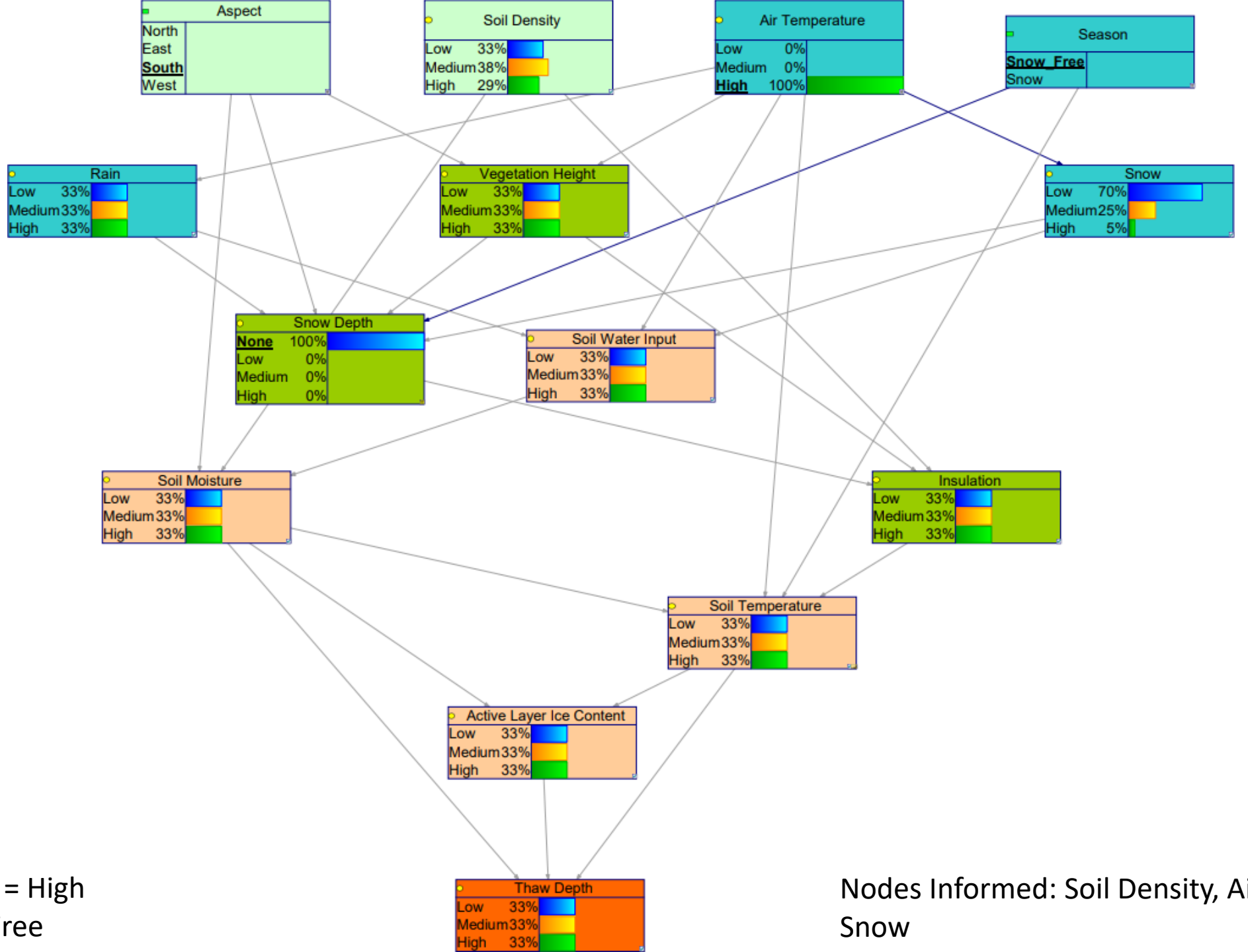
Aspect = North
Air Temperature = High
Season = Snow

Nodes Informed: Soil Density, Air Temperature, Rain



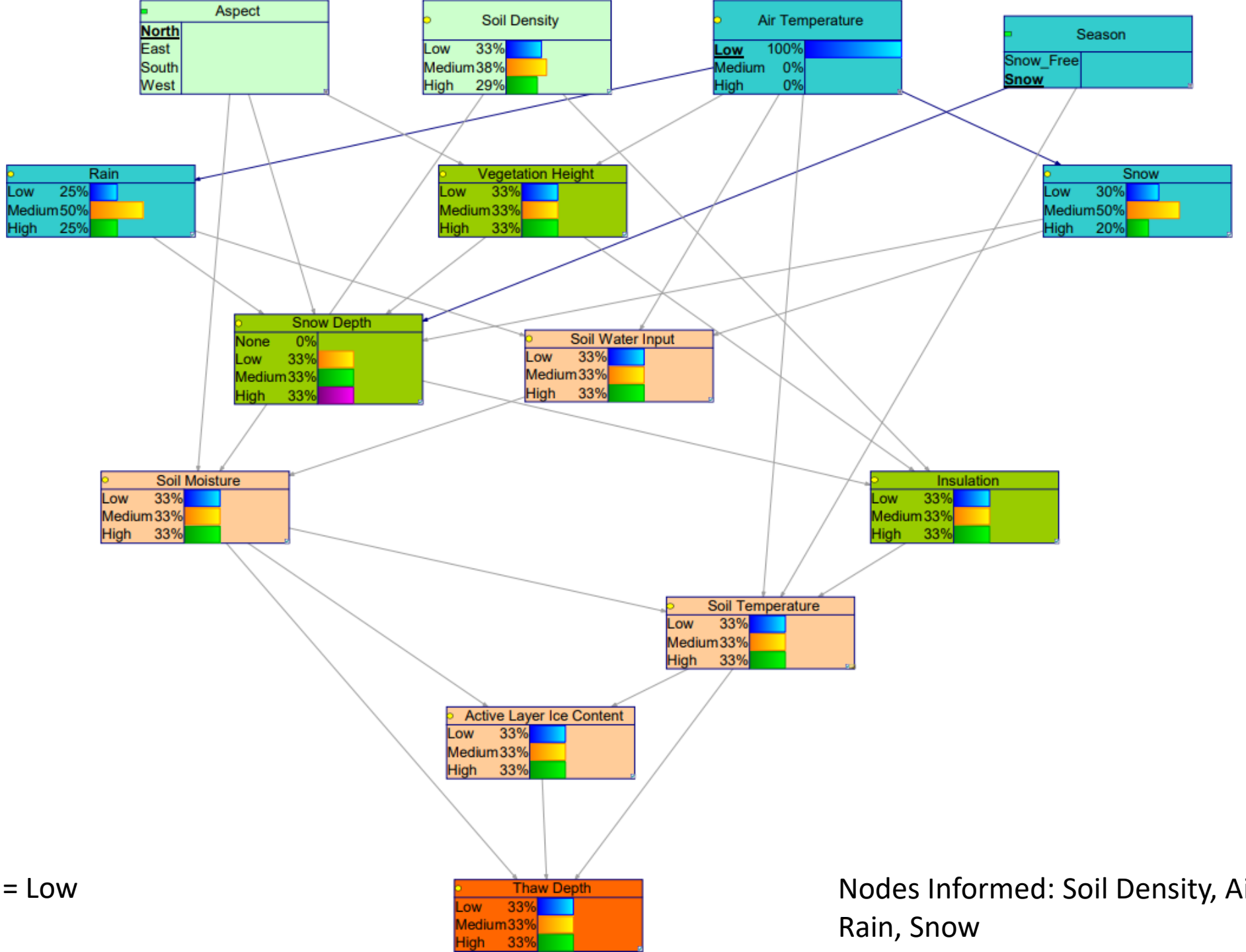
Aspect = South
Air Temperature = Low
Season = Snow Free

Nodes Informed: Soil Density, Air Temperature, Snow



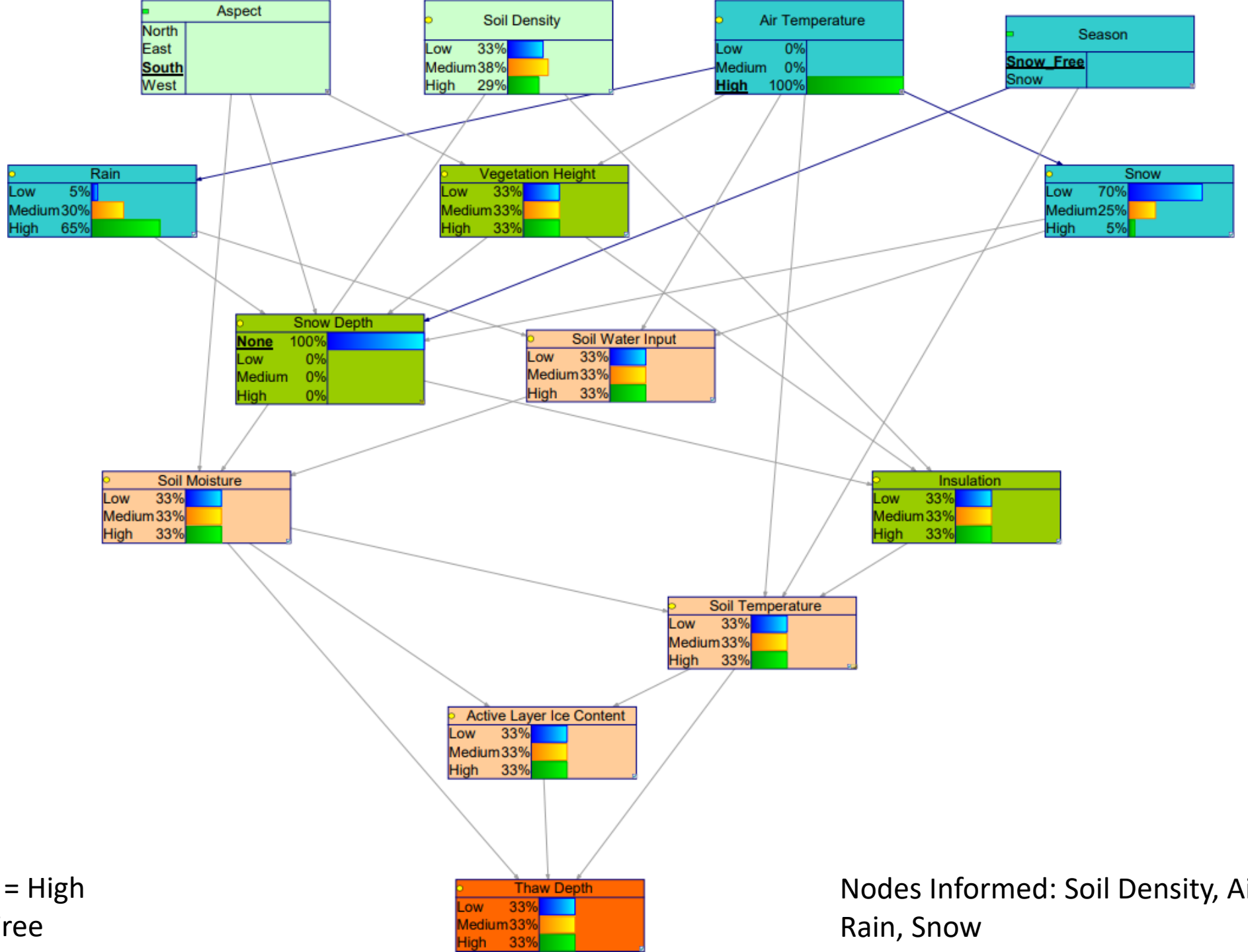
Aspect = South
Air Temperature = High
Season = Snow Free

Nodes Informed: Soil Density, Air Temperature, Snow



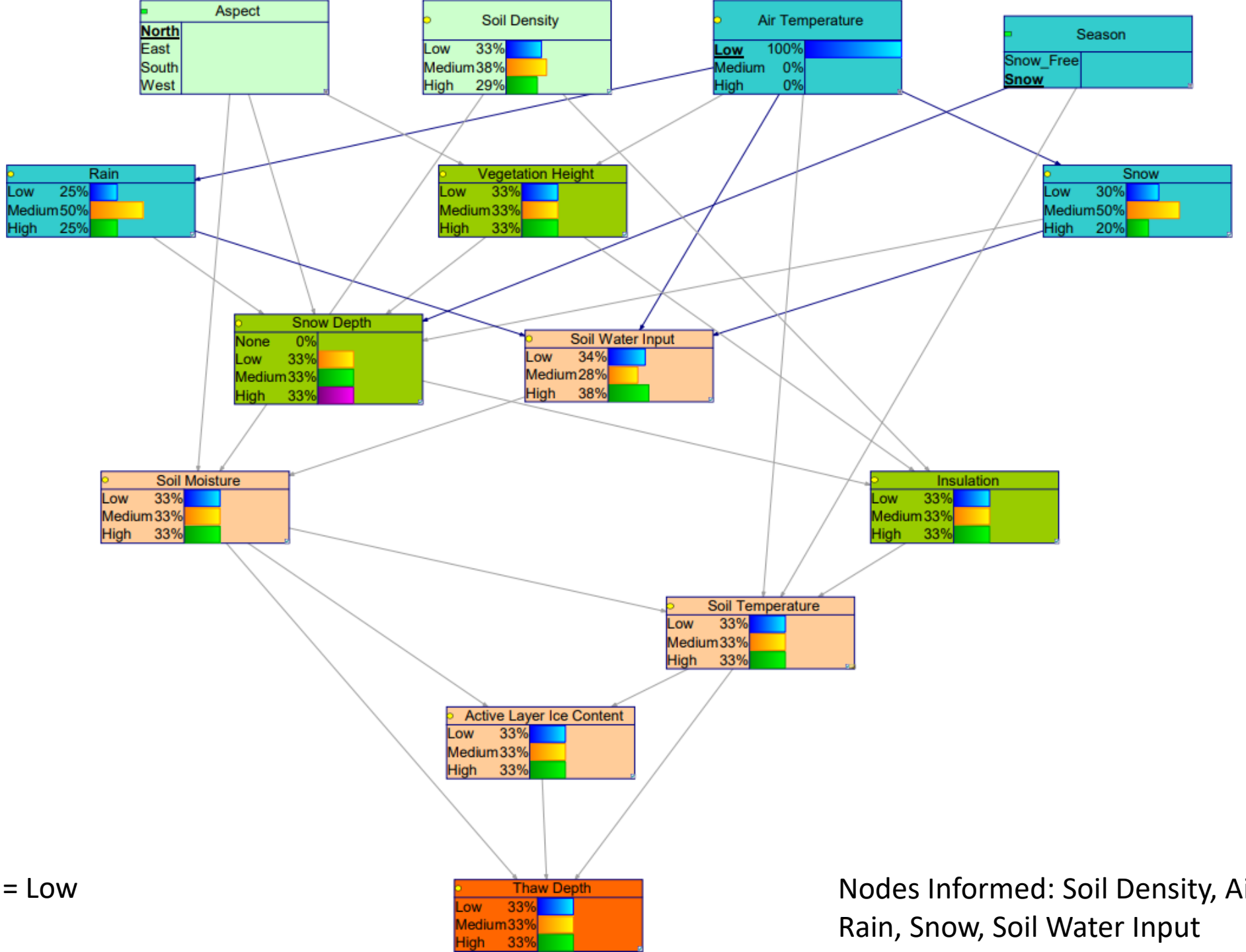
Aspect = North
Air Temperature = Low
Season = Snow

Nodes Informed: Soil Density, Air Temperature, Rain, Snow



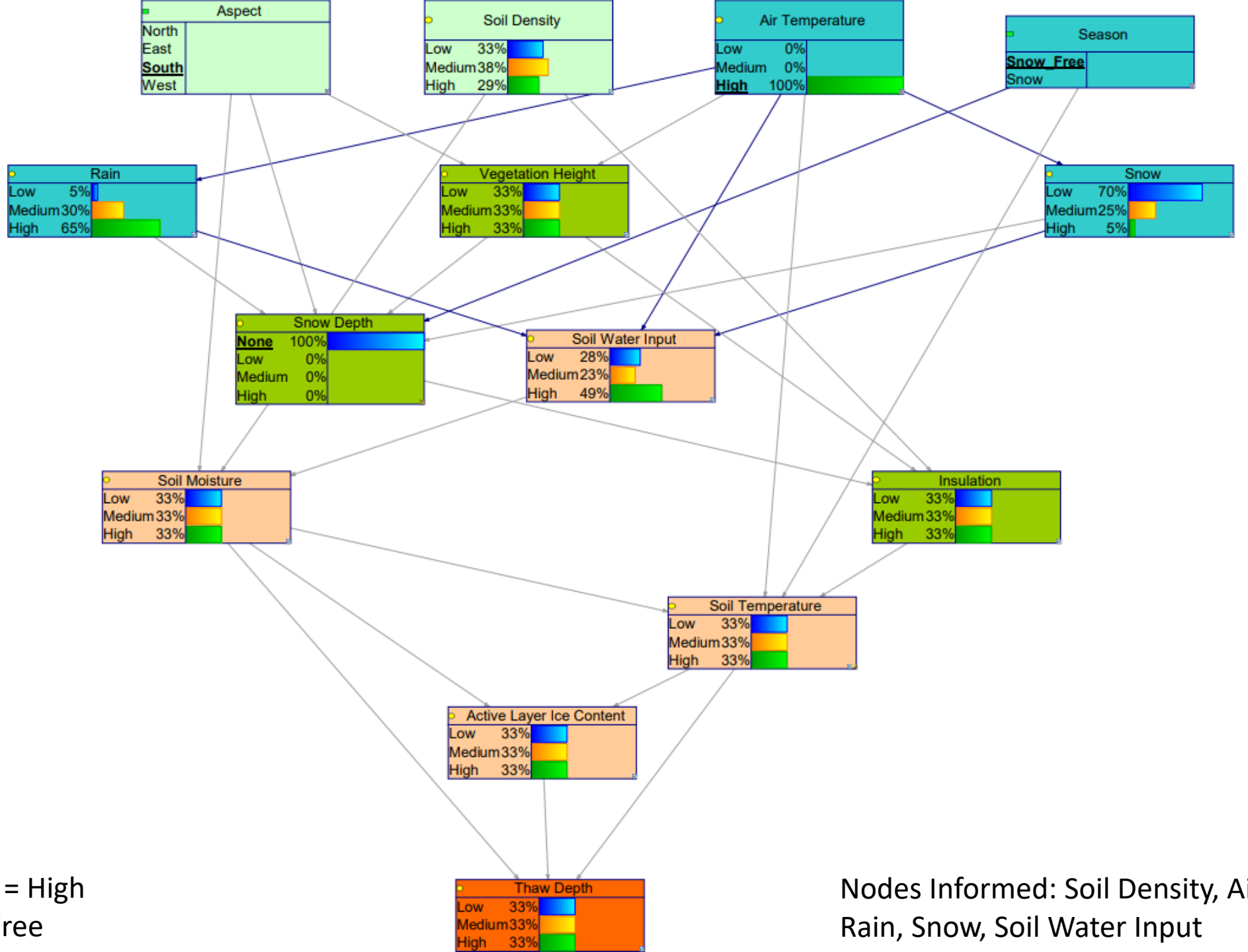
Aspect = South
Air Temperature = High
Season = Snow Free

Nodes Informed: Soil Density, Air Temperature, Rain, Snow



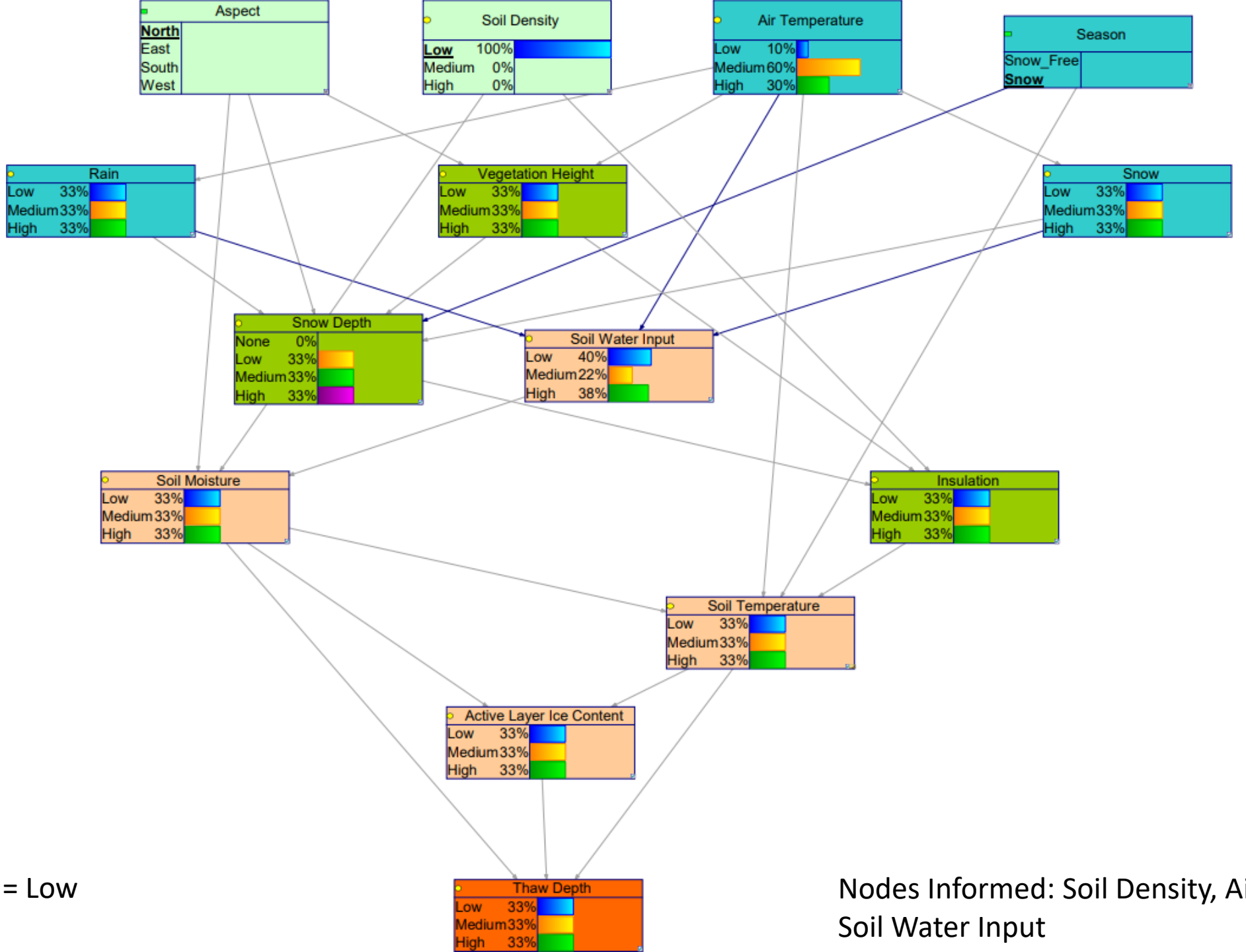
Aspect = North
Air Temperature = Low
Season = Snow

Nodes Informed: Soil Density, Air Temperature, Rain, Snow, Soil Water Input



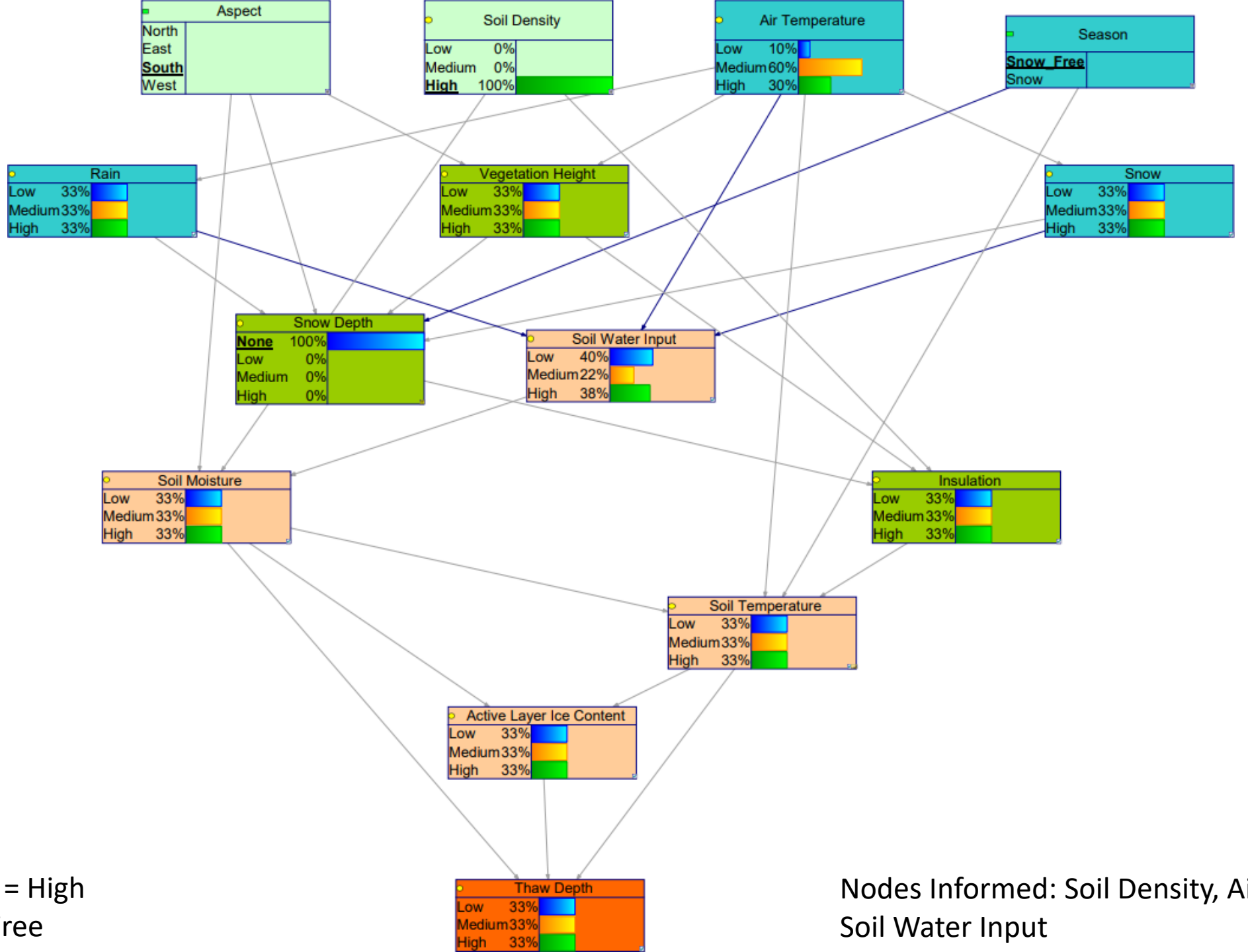
Aspect = South
Air Temperature = High
Season = Snow Free

Nodes Informed: Soil Density, Air Temperature, Rain, Snow, Soil Water Input



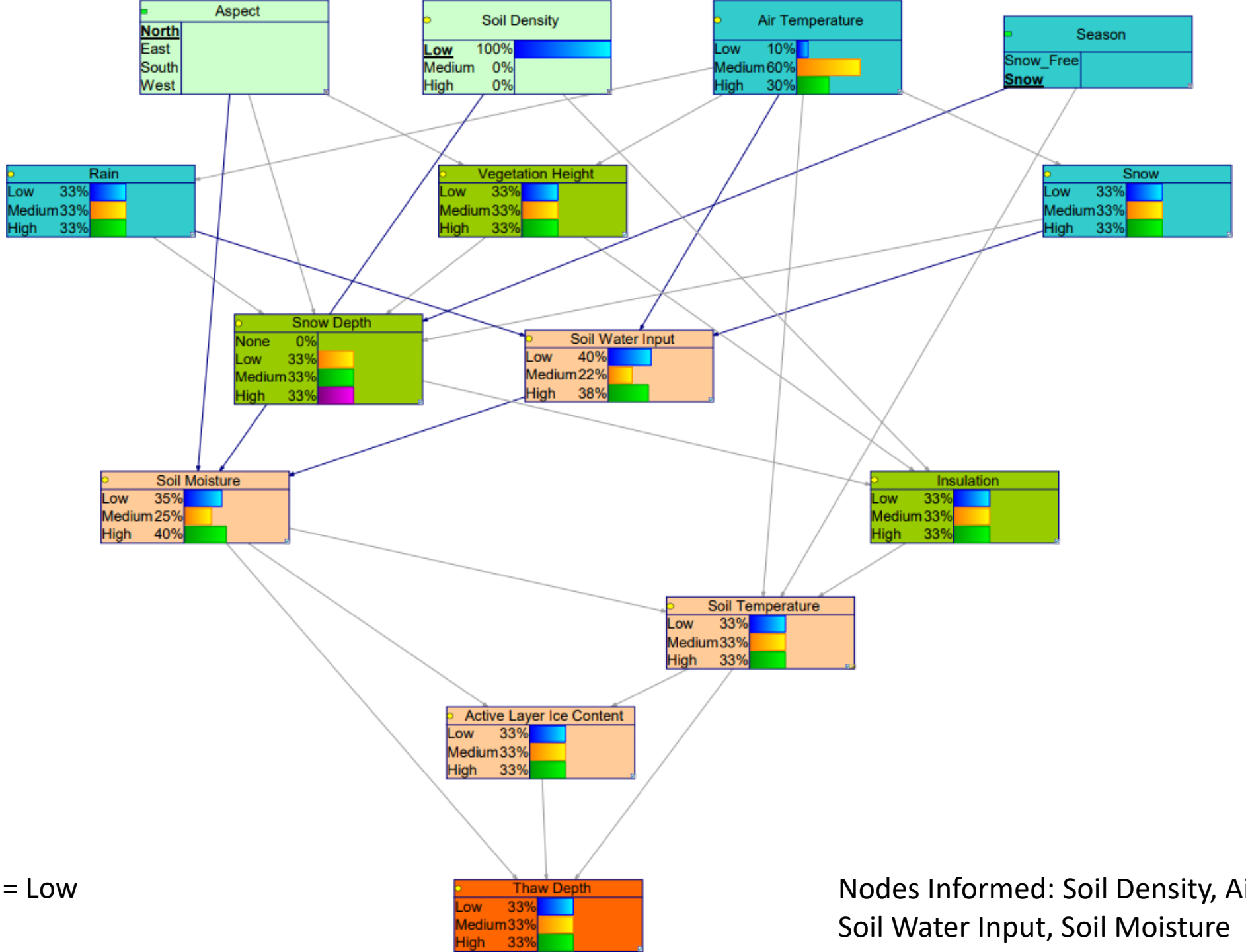
Aspect = North
Air Temperature = Low
Season = Snow

Nodes Informed: Soil Density, Air Temperature, Soil Water Input



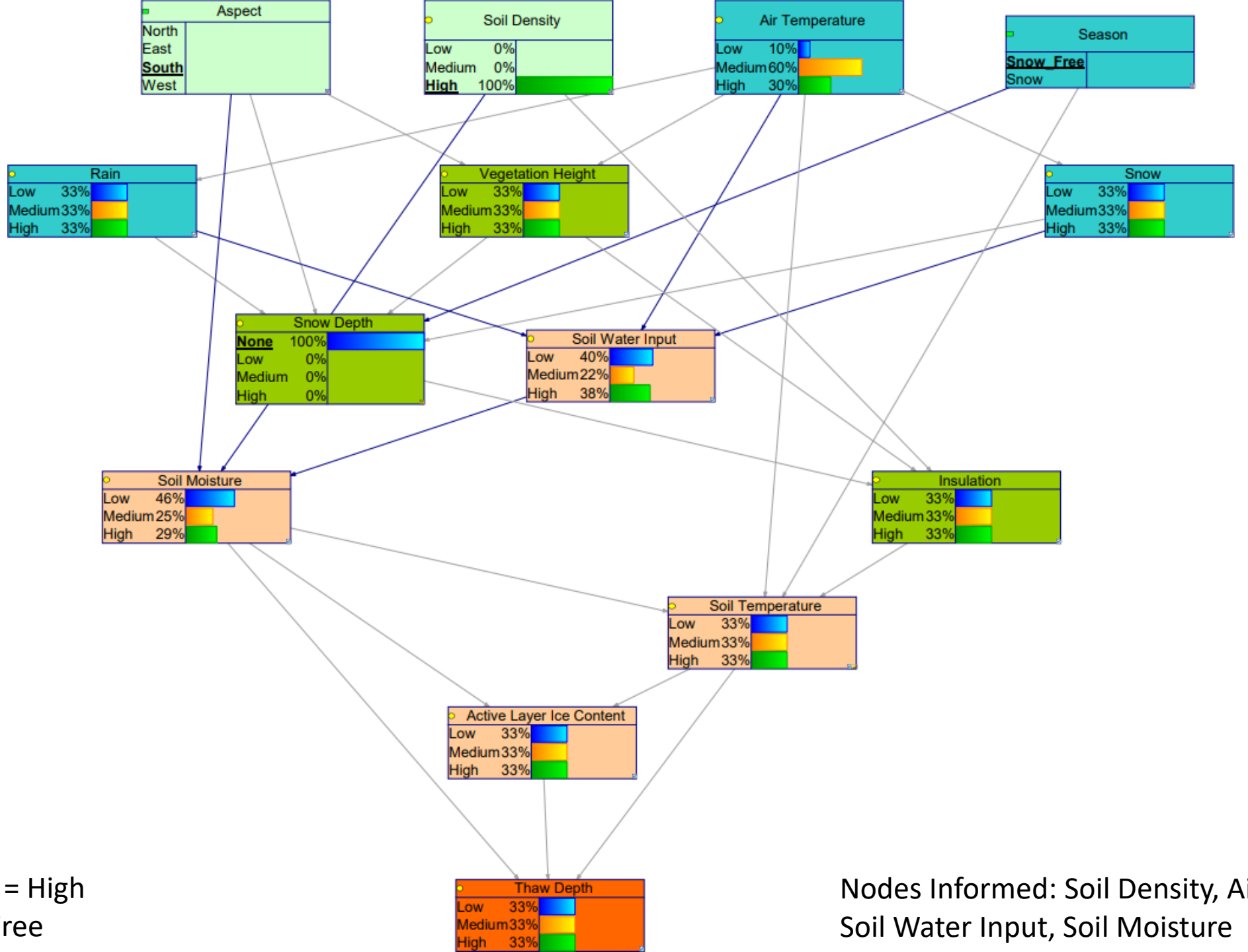
Aspect = South
Air Temperature = High
Season = Snow Free

Nodes Informed: Soil Density, Air Temperature, Soil Water Input



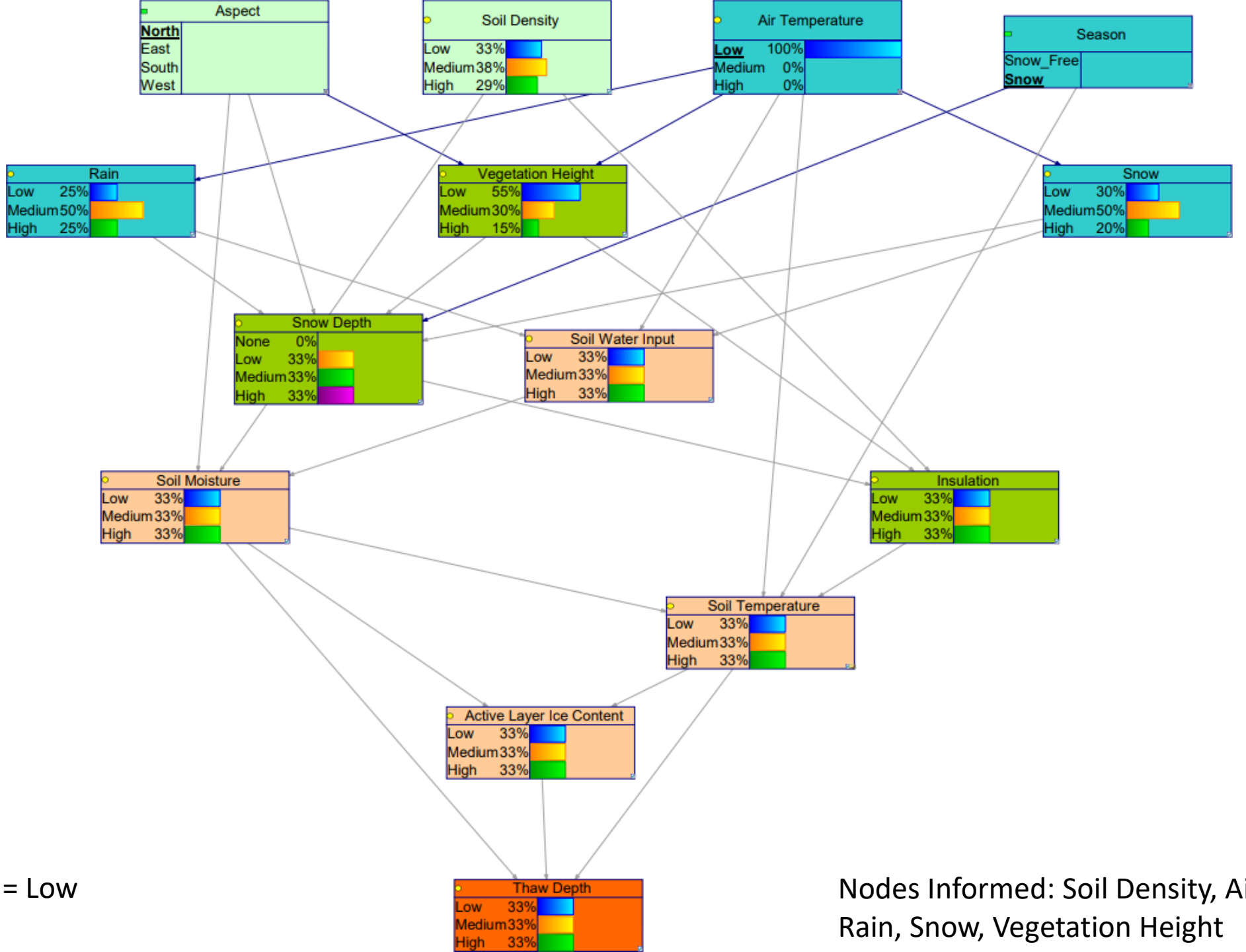
Aspect = North
Air Temperature = Low
Season = Snow

Nodes Informed: Soil Density, Air Temperature, Soil Water Input, Soil Moisture



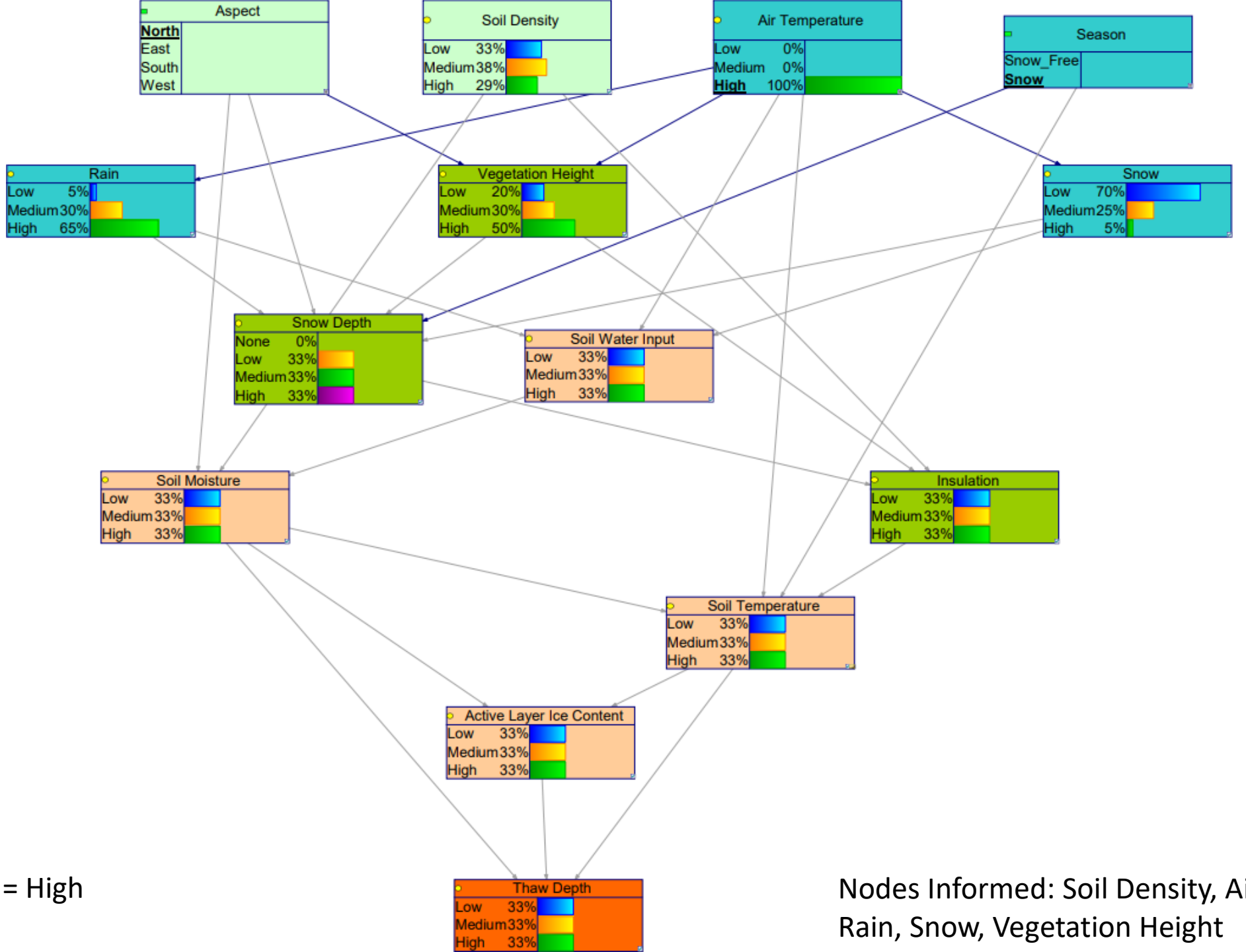
Aspect = South
Air Temperature = High
Season = Snow Free

Nodes Informed: Soil Density, Air Temperature, Soil Water Input, Soil Moisture



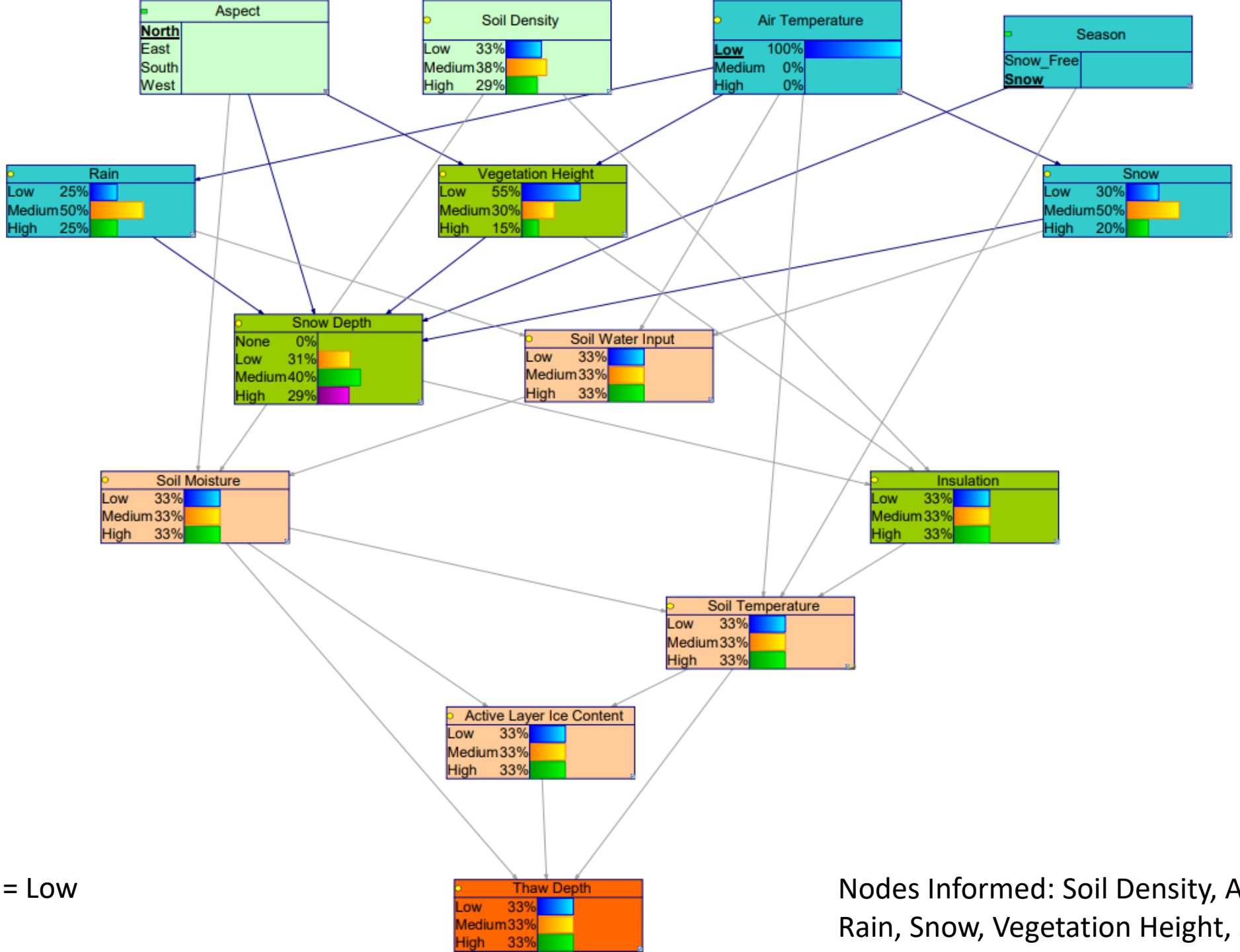
Aspect = North
Air Temperature = Low
Season = Snow

Nodes Informed: Soil Density, Air Temperature, Rain, Snow, Vegetation Height



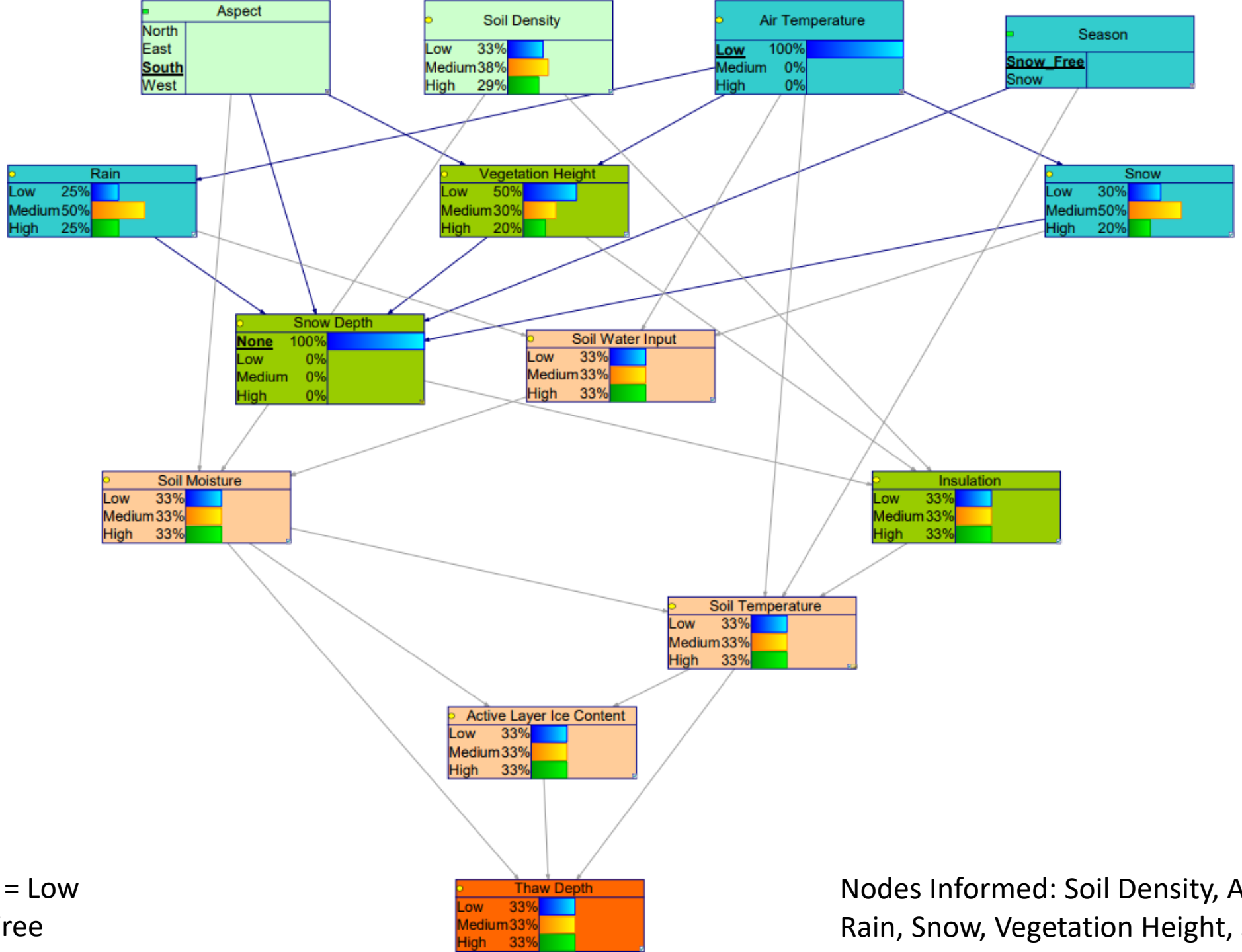
Aspect = North
Air Temperature = High
Season = Snow

Nodes Informed: Soil Density, Air Temperature, Rain, Snow, Vegetation Height



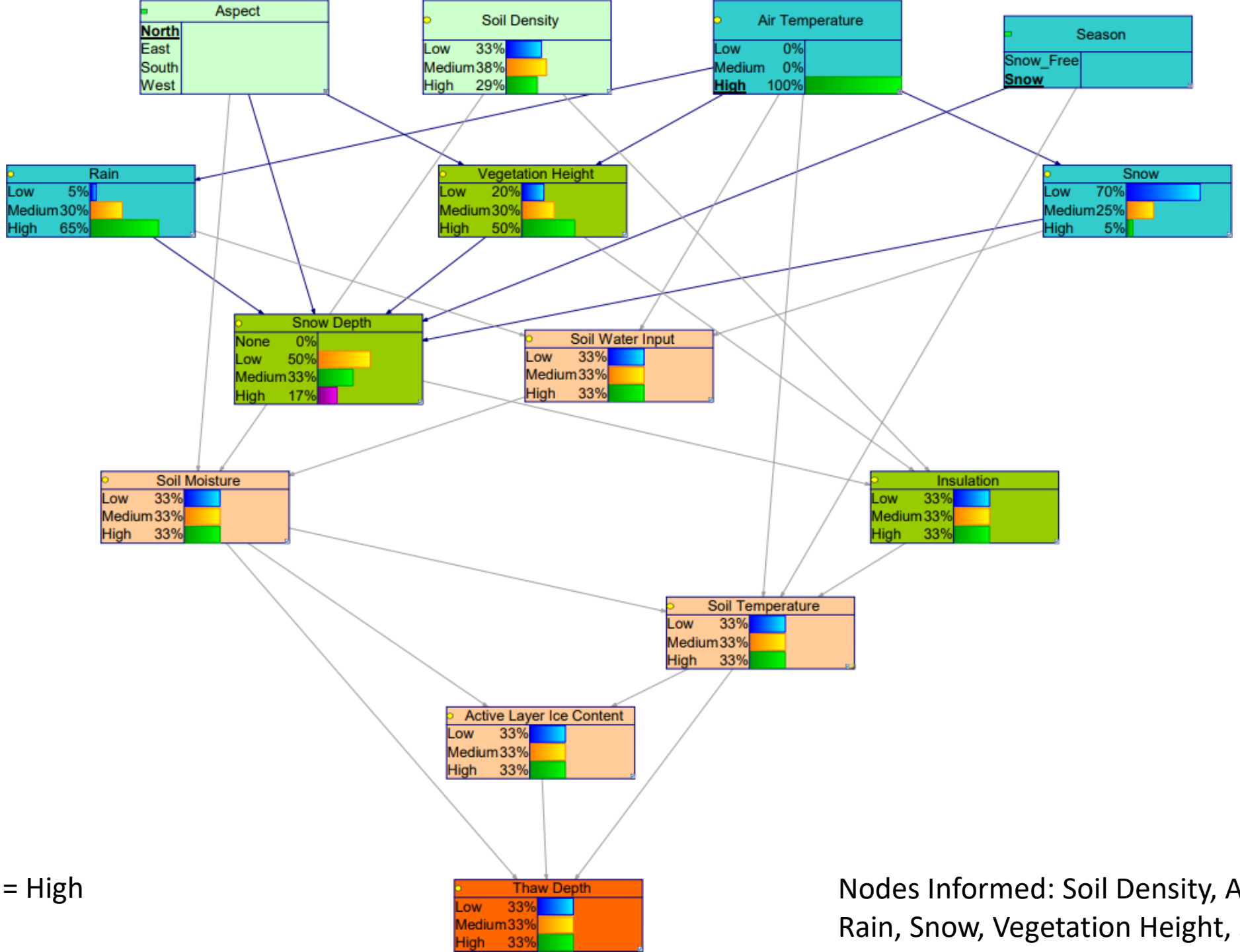
Aspect = North
Air Temperature = Low
Season = Snow

Nodes Informed: Soil Density, Air Temperature, Rain, Snow, Vegetation Height, Snow Depth



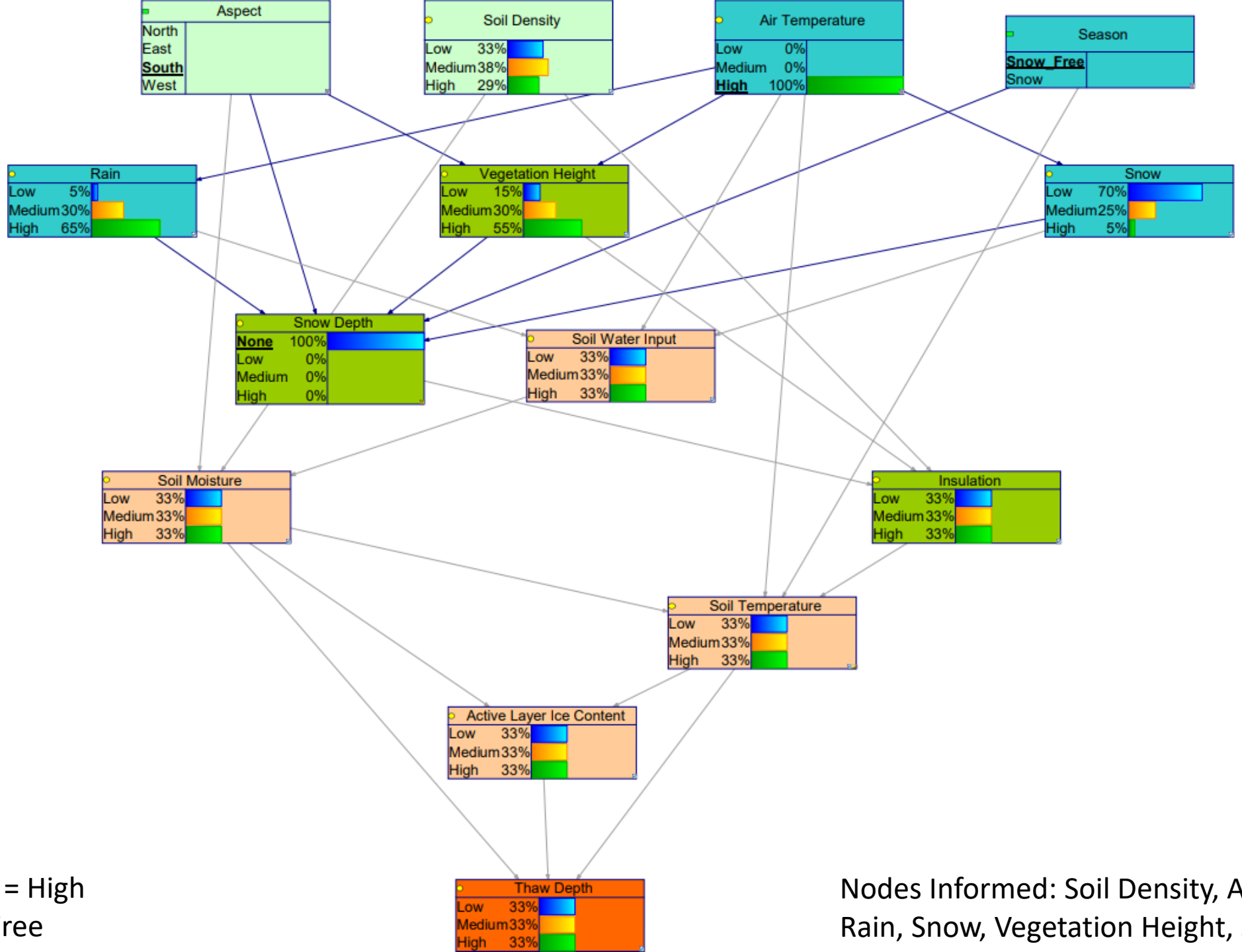
Aspect = South
Air Temperature = Low
Season = Snow Free

Nodes Informed: Soil Density, Air Temperature, Rain, Snow, Vegetation Height, Snow Depth



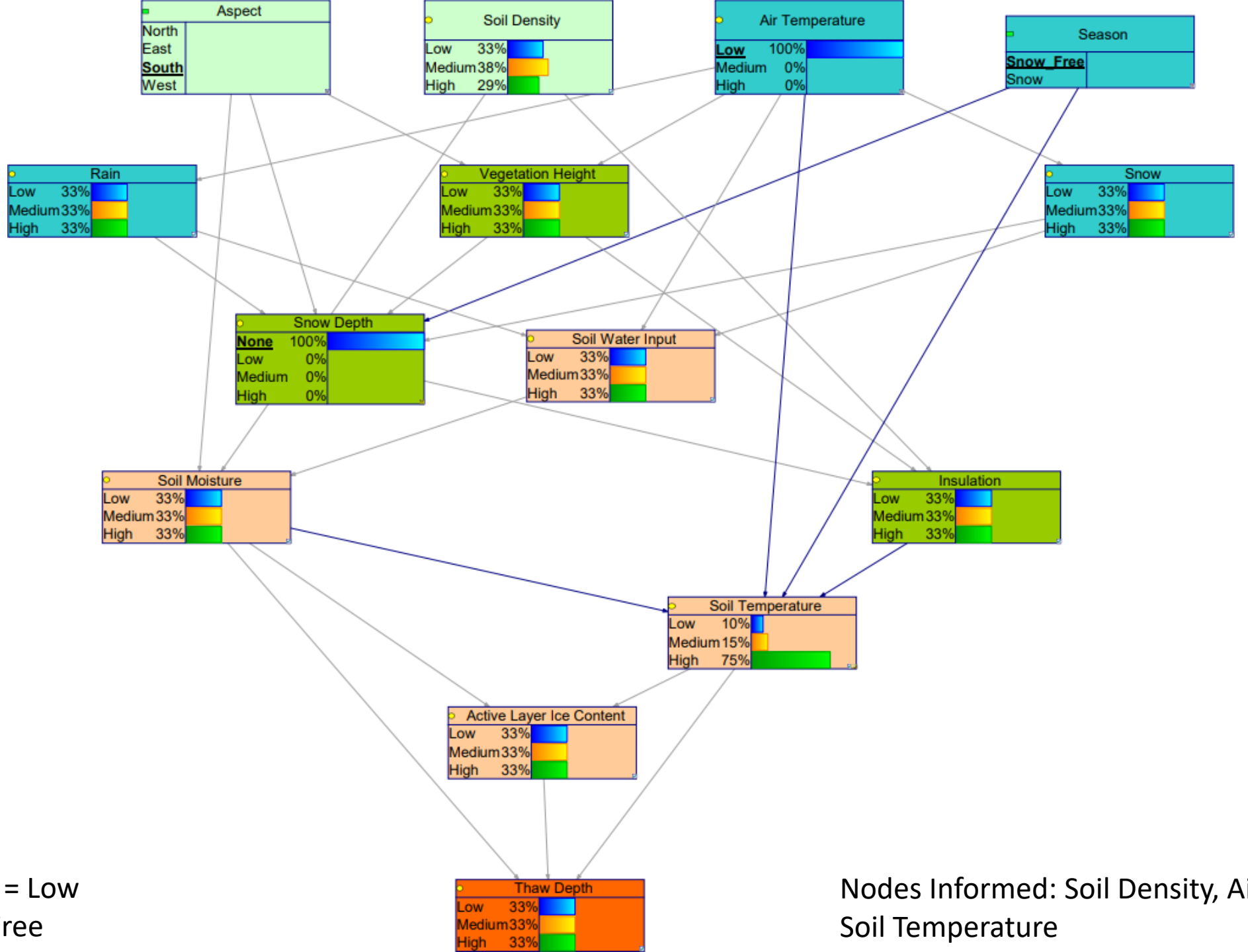
Aspect = North
Air Temperature = High
Season = Snow

Nodes Informed: Soil Density, Air Temperature, Rain, Snow, Vegetation Height, Snow Depth



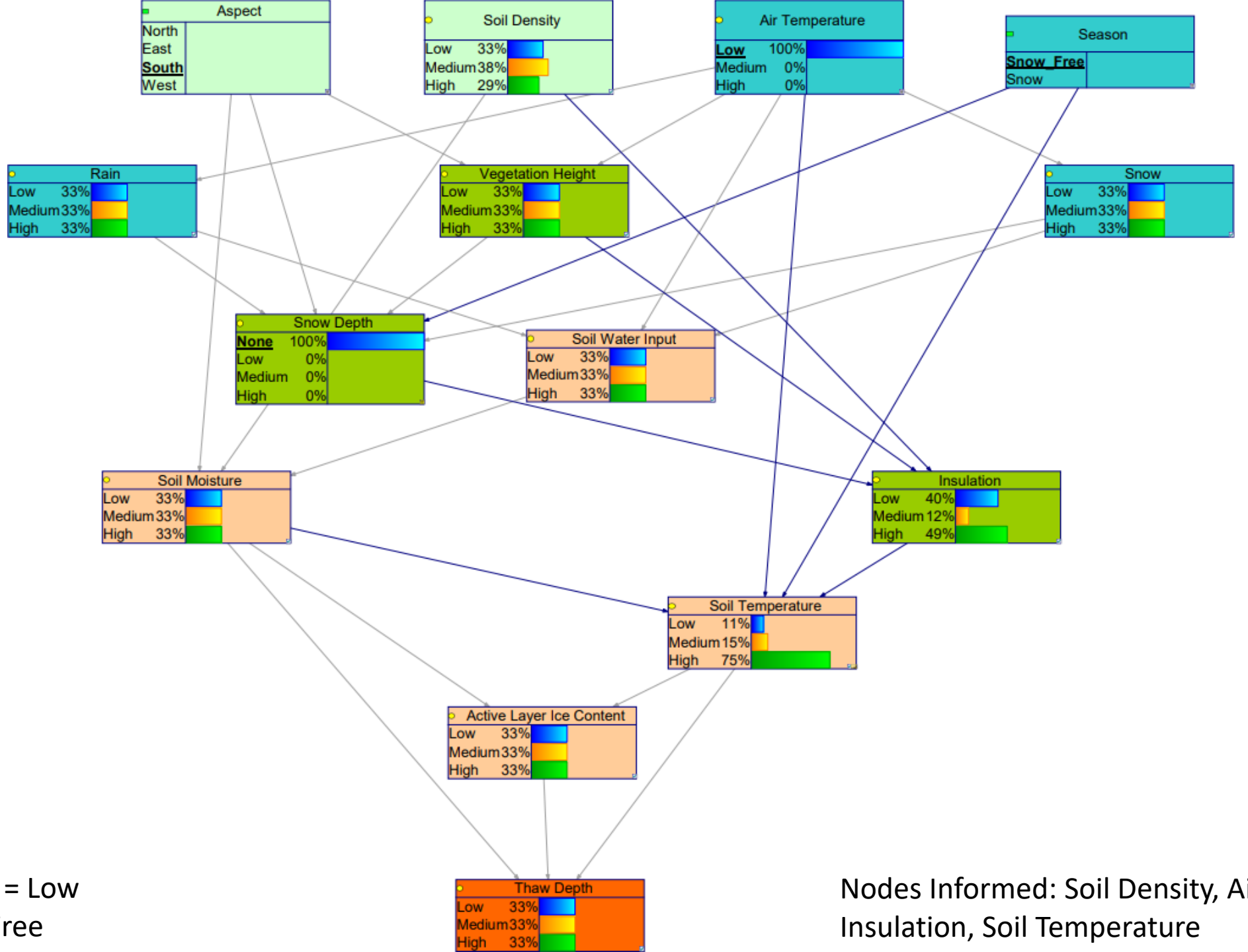
Aspect = South
Air Temperature = High
Season = Snow Free

Nodes Informed: Soil Density, Air Temperature, Rain, Snow, Vegetation Height, Snow Depth



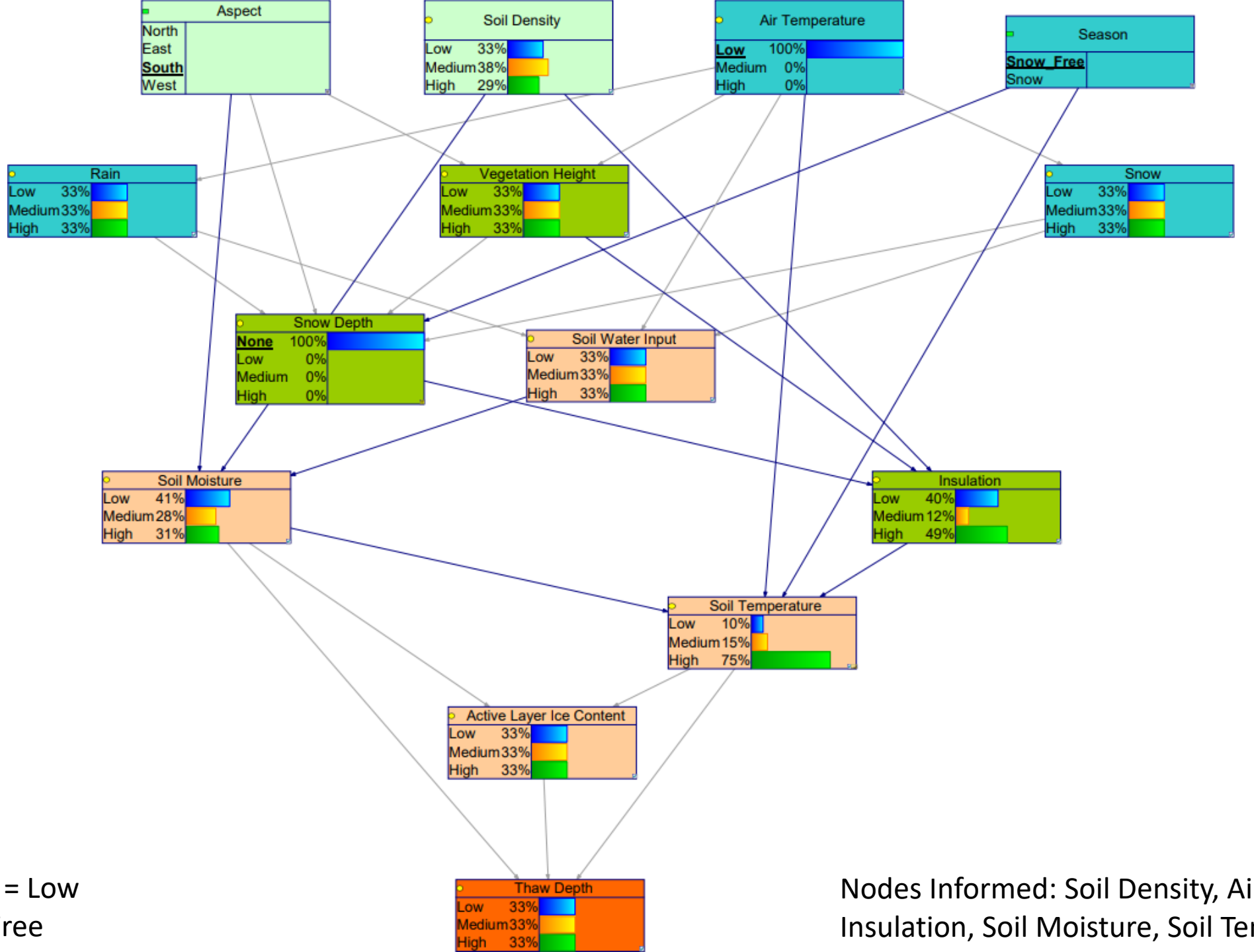
Aspect = South
Air Temperature = Low
Season = Snow Free

Nodes Informed: Soil Density, Air Temperature, Soil Temperature



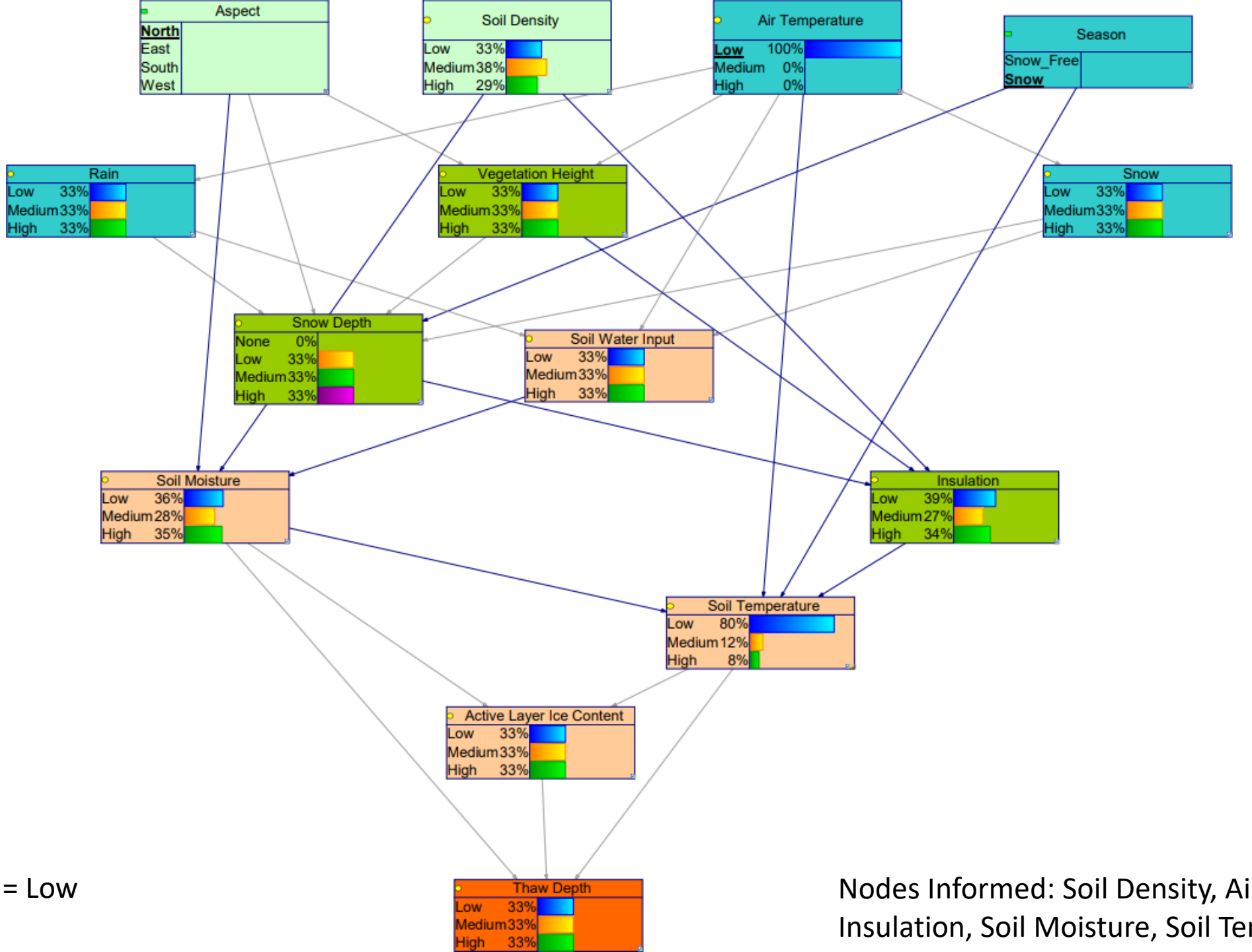
Aspect = South
Air Temperature = Low
Season = Snow Free

Nodes Informed: Soil Density, Air Temperature, Insulation, Soil Temperature



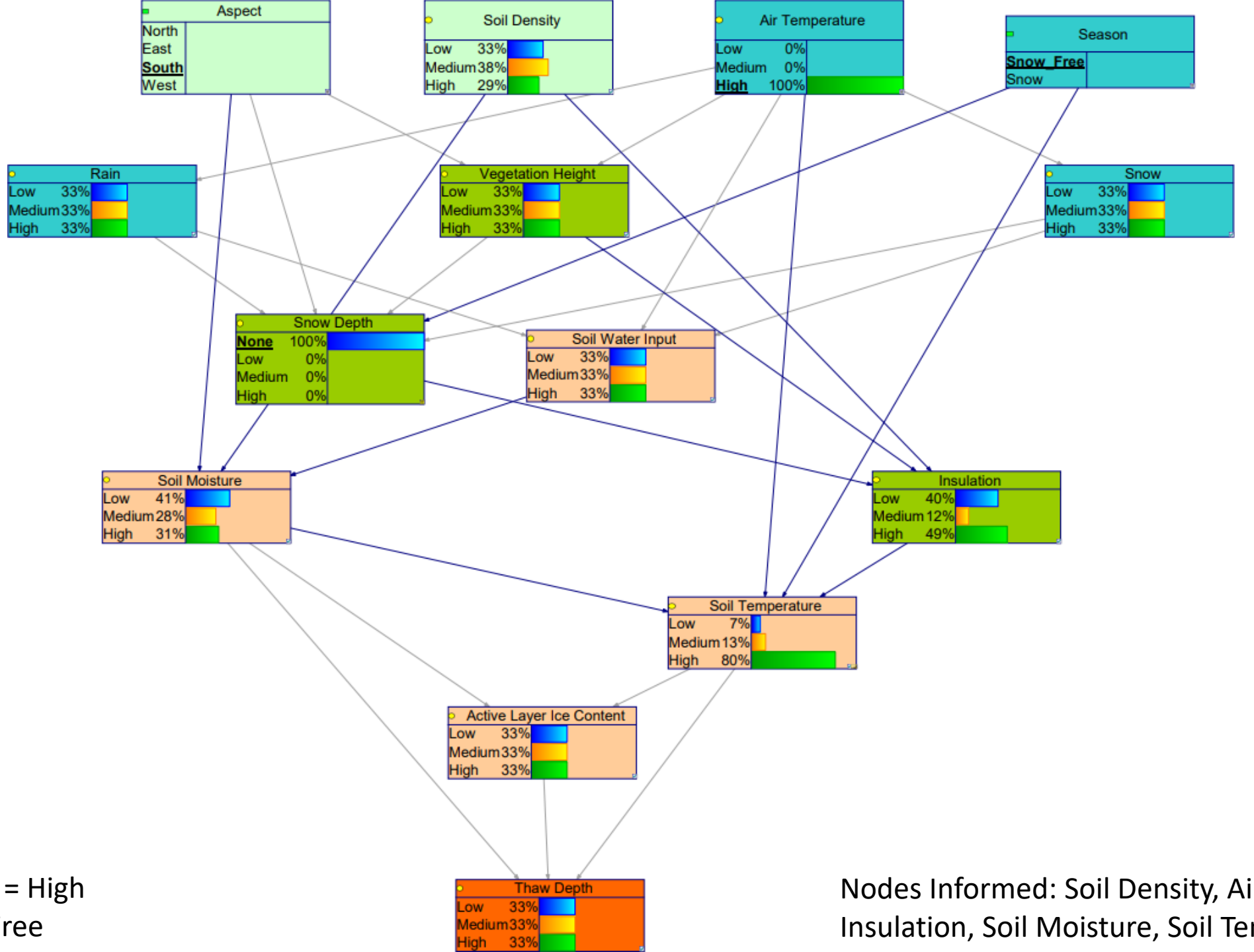
Aspect = South
Air Temperature = Low
Season = Snow Free

Nodes Informed: Soil Density, Air Temperature, Insulation, Soil Moisture, Soil Temperature



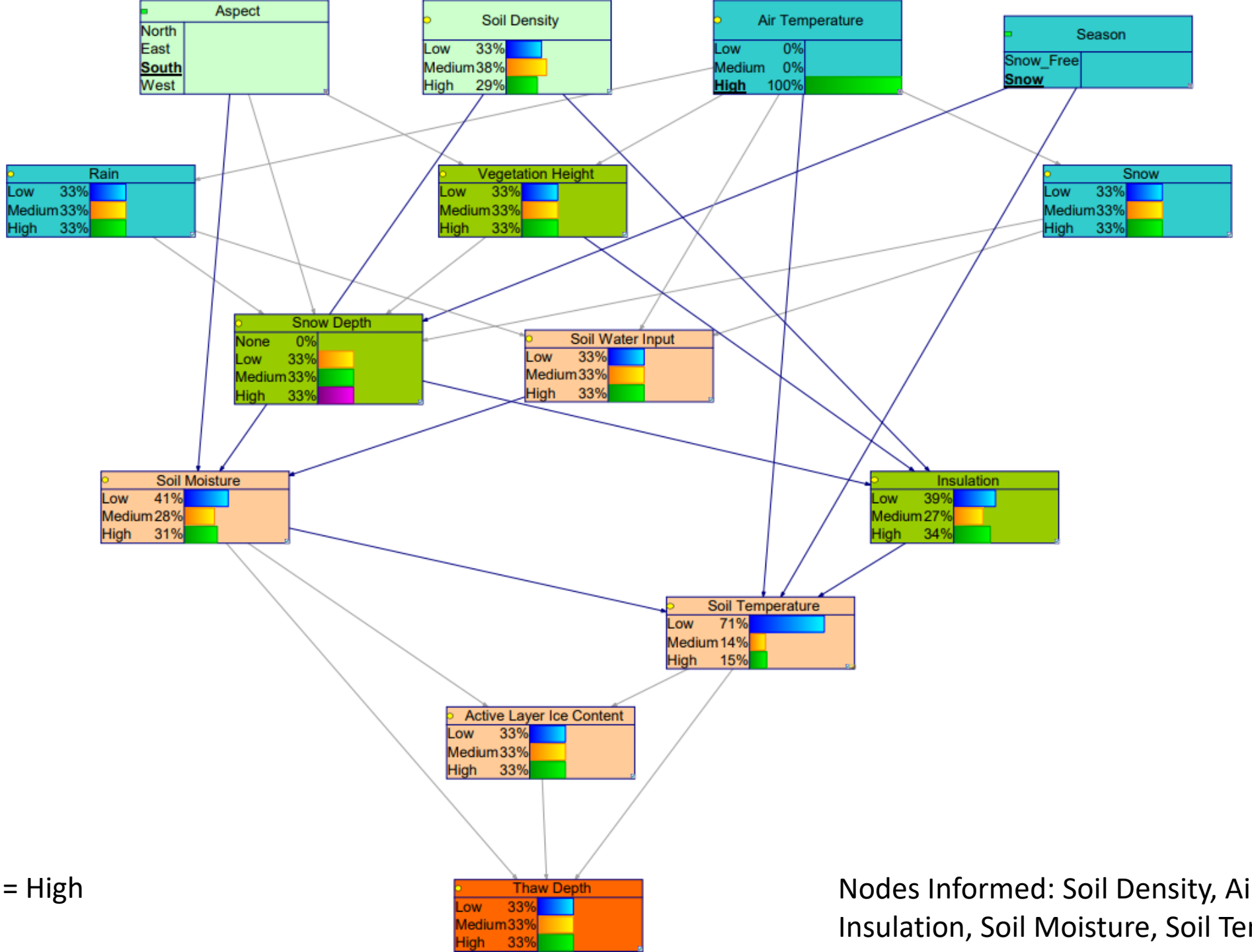
Aspect = North
Air Temperature = Low
Season = Snow

Nodes Informed: Soil Density, Air Temperature, Insulation, Soil Moisture, Soil Temperature



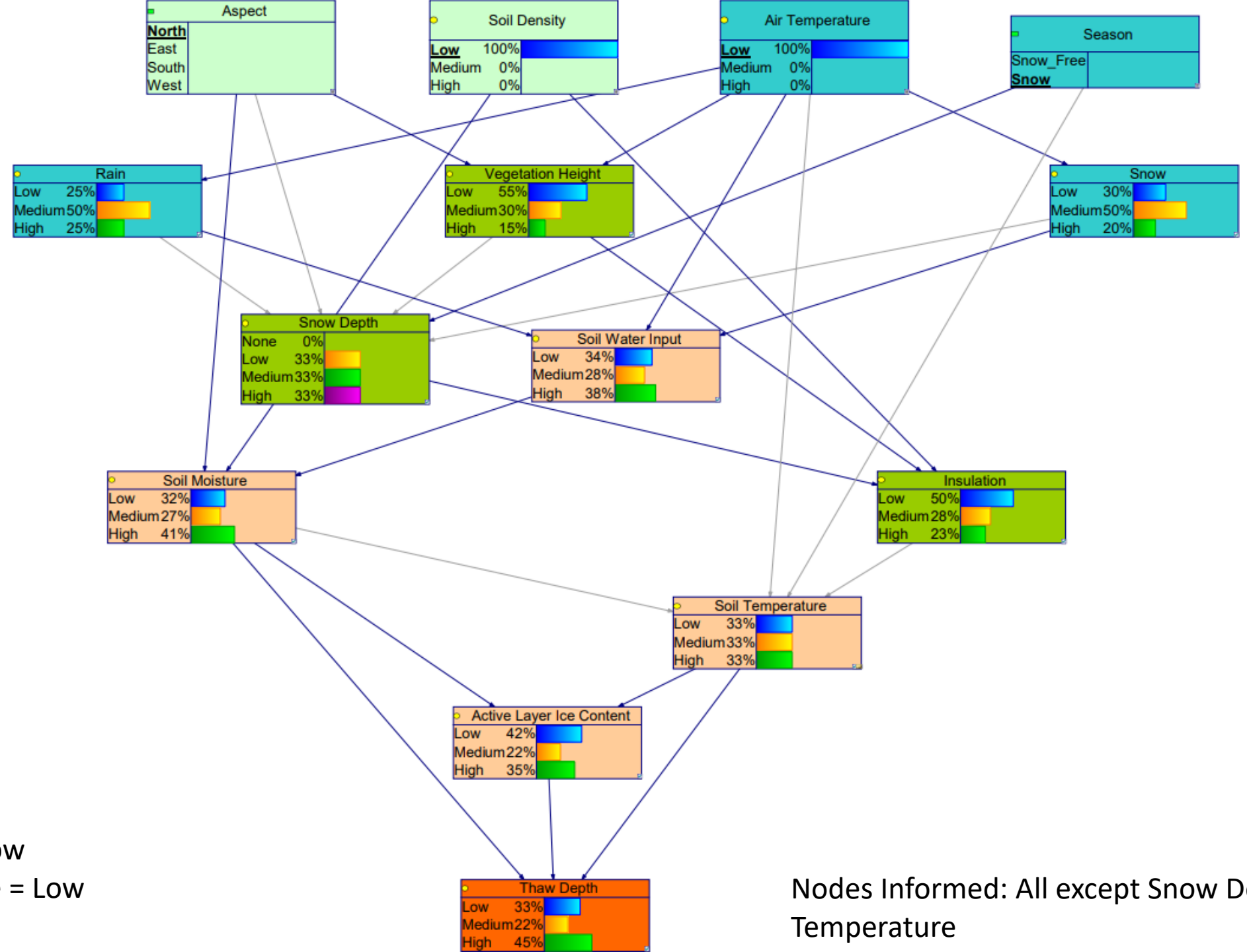
Aspect = South
Air Temperature = High
Season = Snow Free

Nodes Informed: Soil Density, Air Temperature, Insulation, Soil Moisture, Soil Temperature



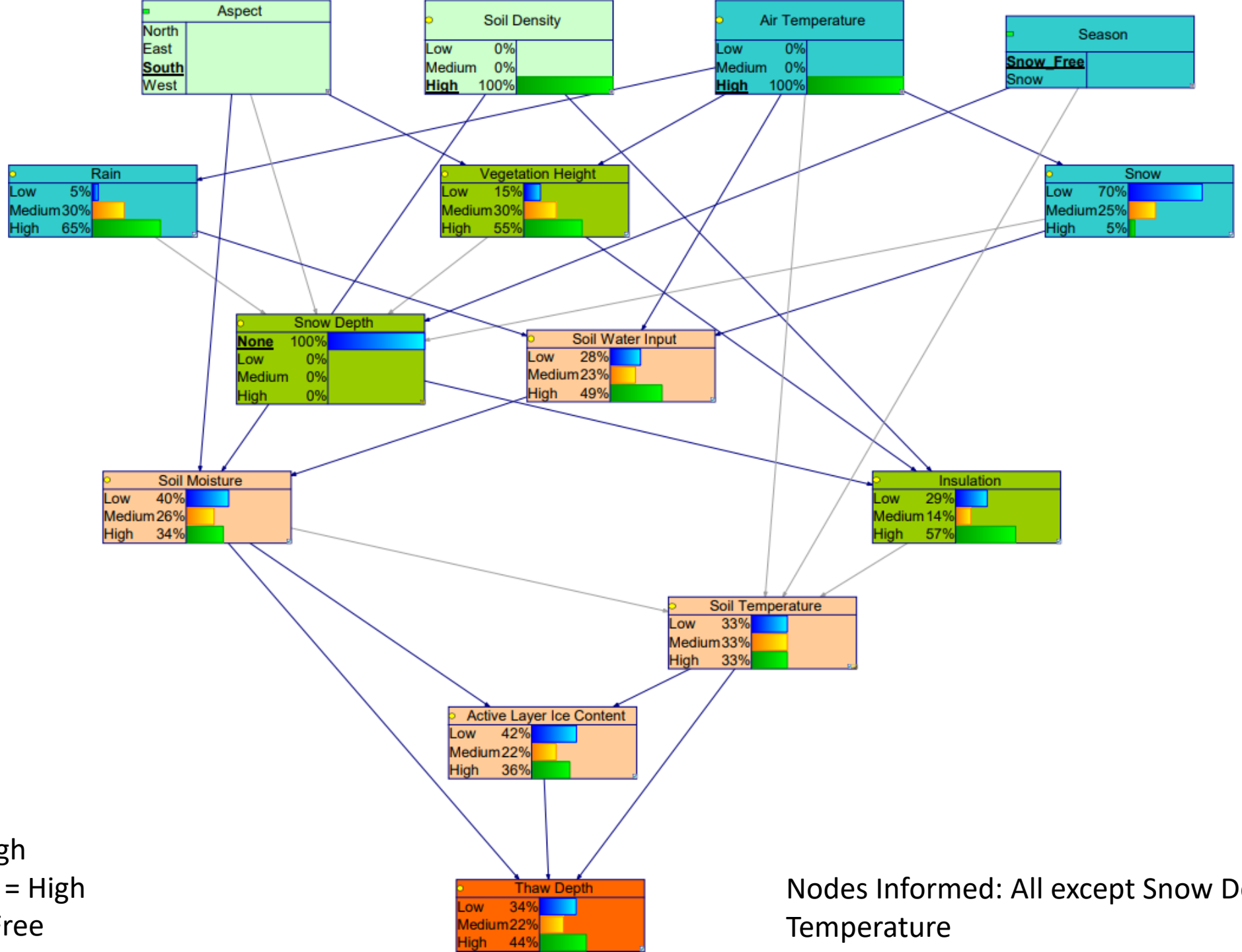
Aspect = South
Air Temperature = High
Season = Snow

Nodes Informed: Soil Density, Air Temperature, Insulation, Soil Moisture, Soil Temperature



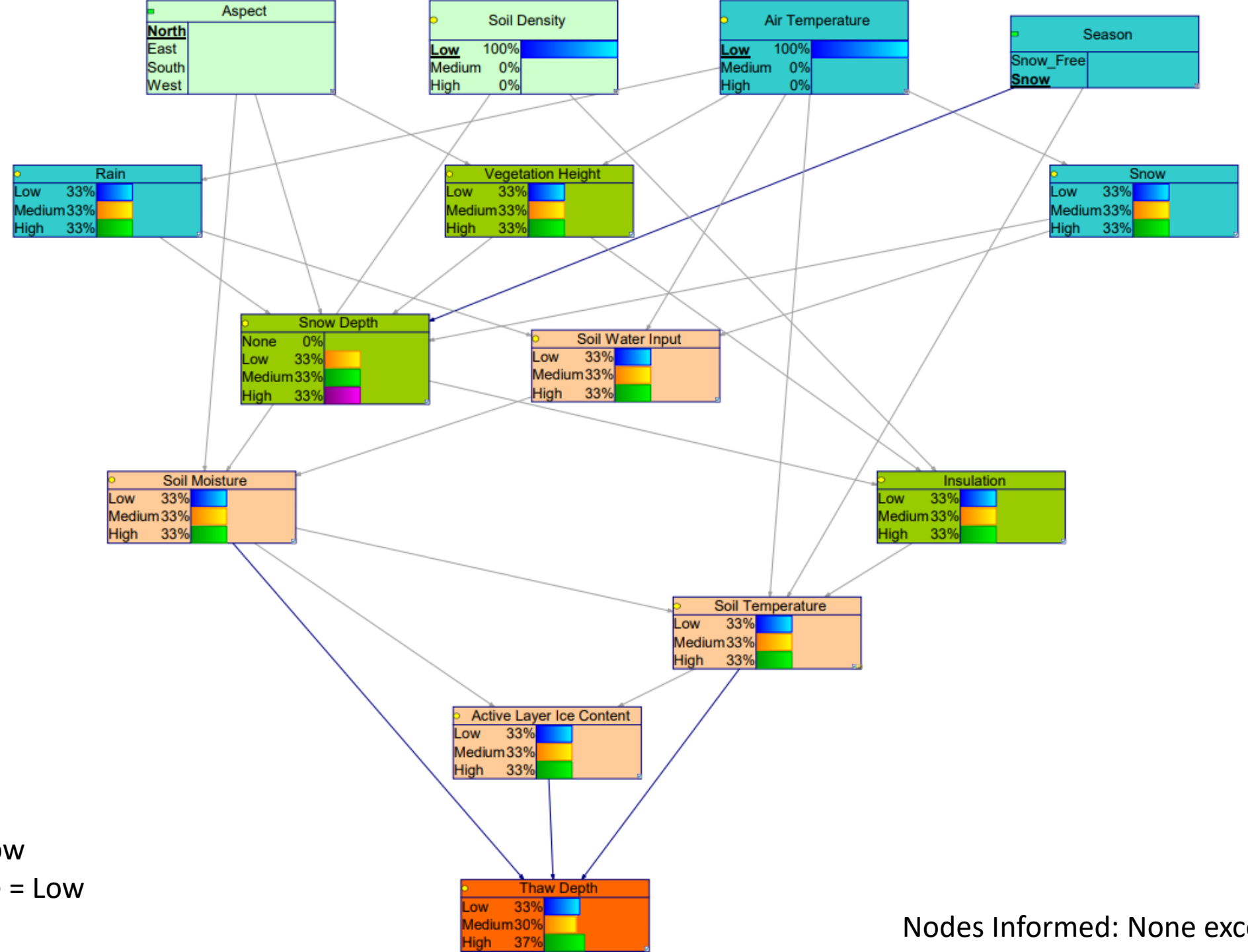
Aspect = North
Soil Density = Low
Air Temperature = Low
Season = Snow

Nodes Informed: All except Snow Depth and Soil Temperature



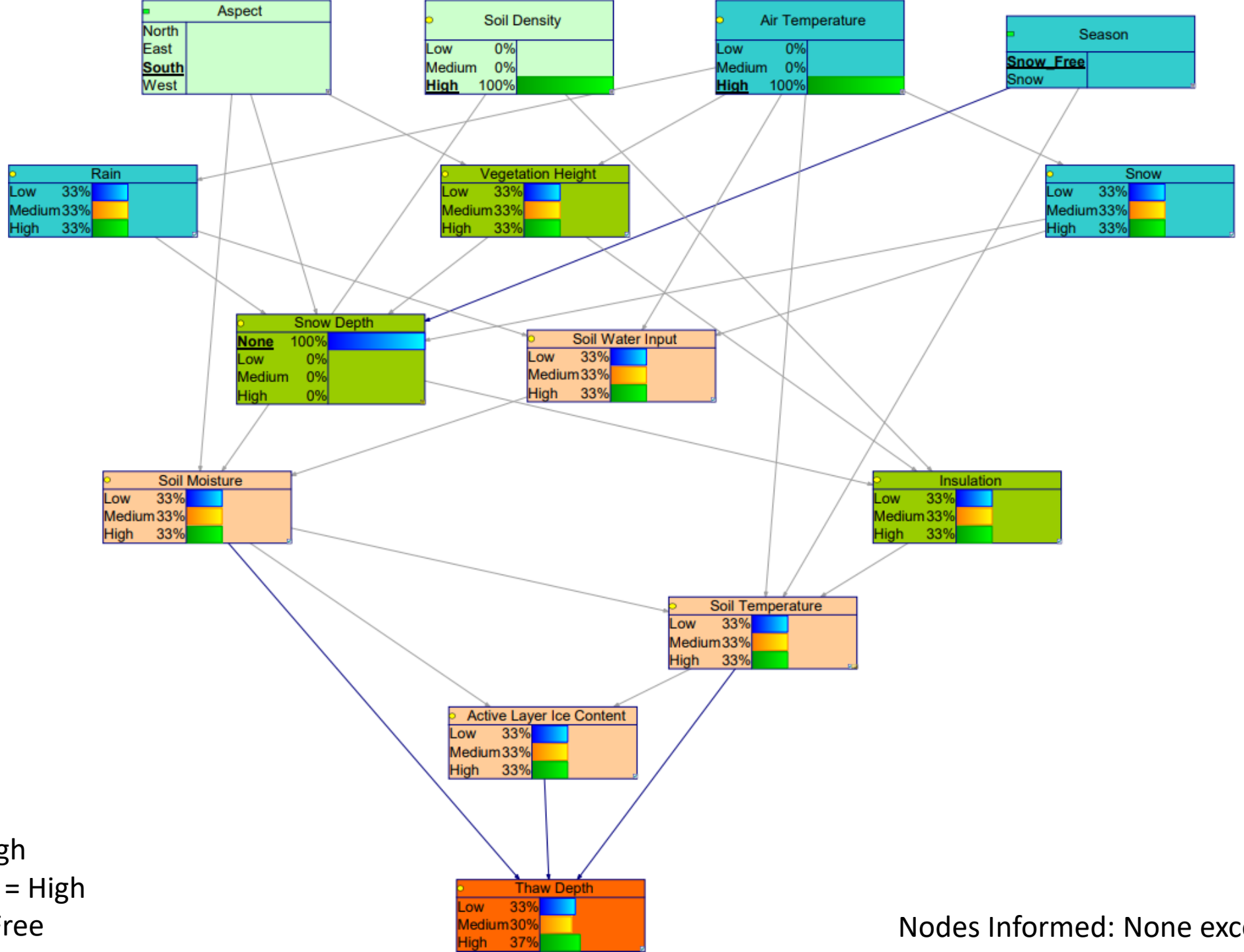
Aspect = South
Soil Density = High
Air Temperature = High
Season = Snow Free

Nodes Informed: All except Snow Depth and Soil Temperature



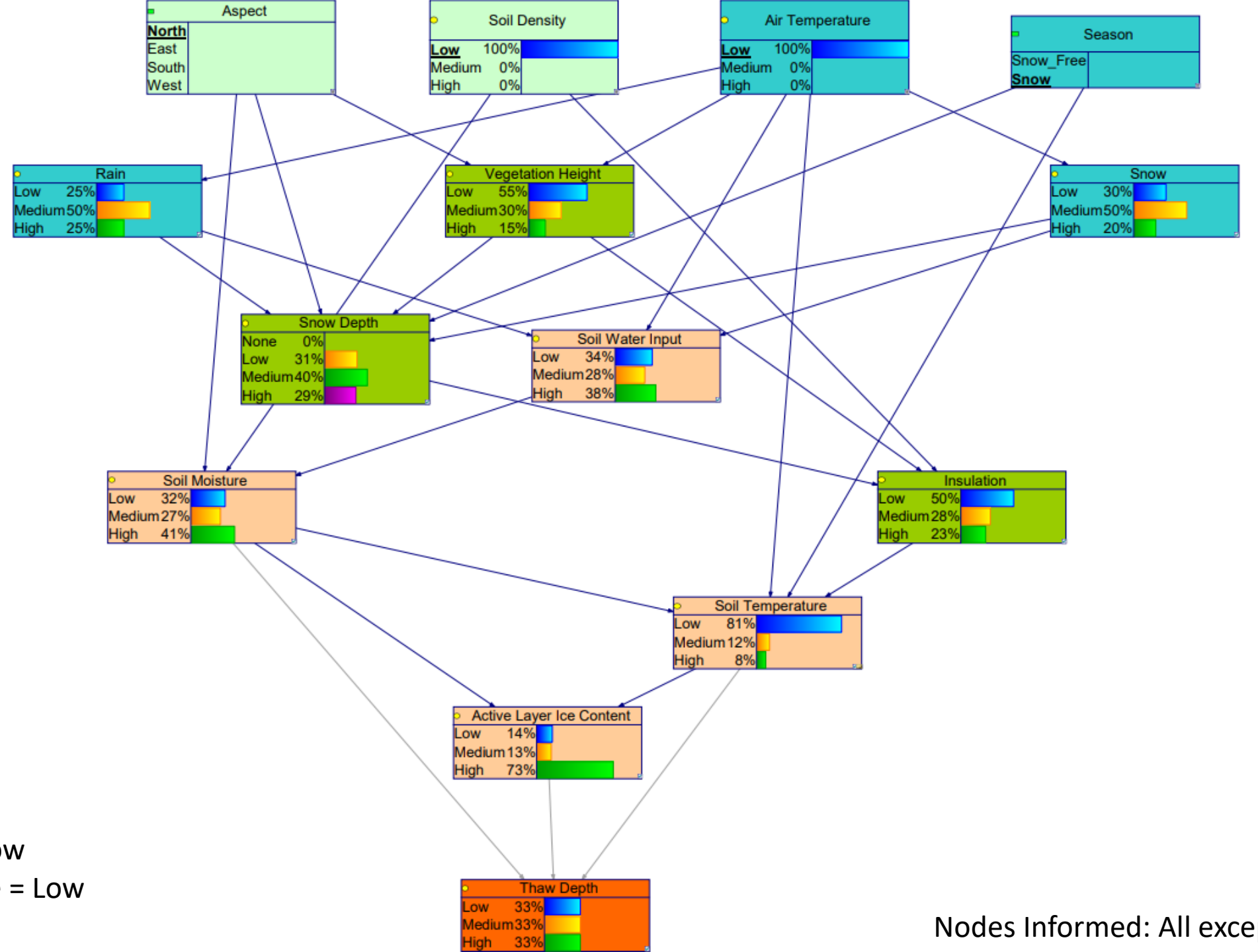
Aspect = North
Soil Density = Low
Air Temperature = Low
Season = Snow

Nodes Informed: None except Thaw Depth



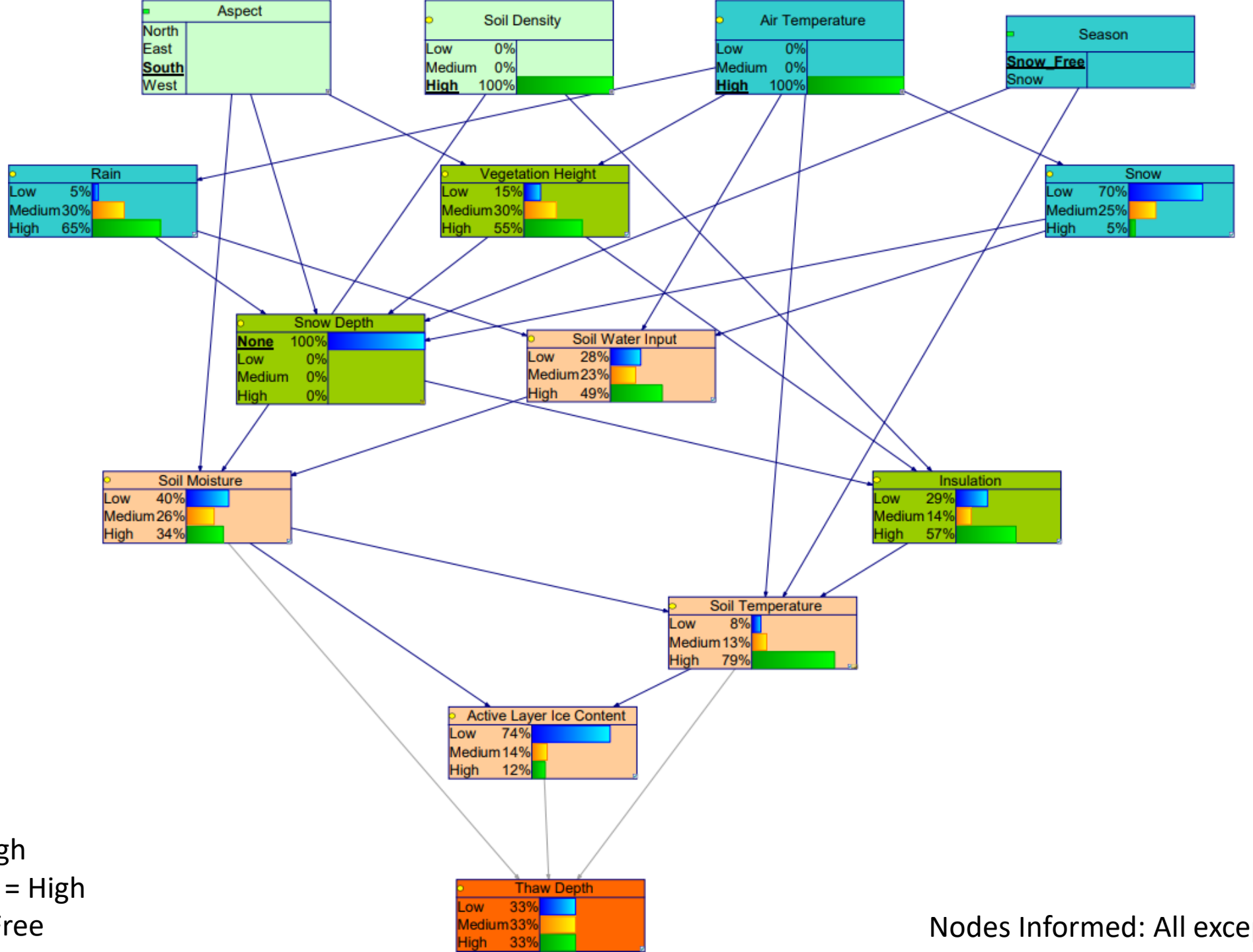
Aspect = South
Soil Density = High
Air Temperature = High
Season = Snow Free

Nodes Informed: None except Thaw Depth



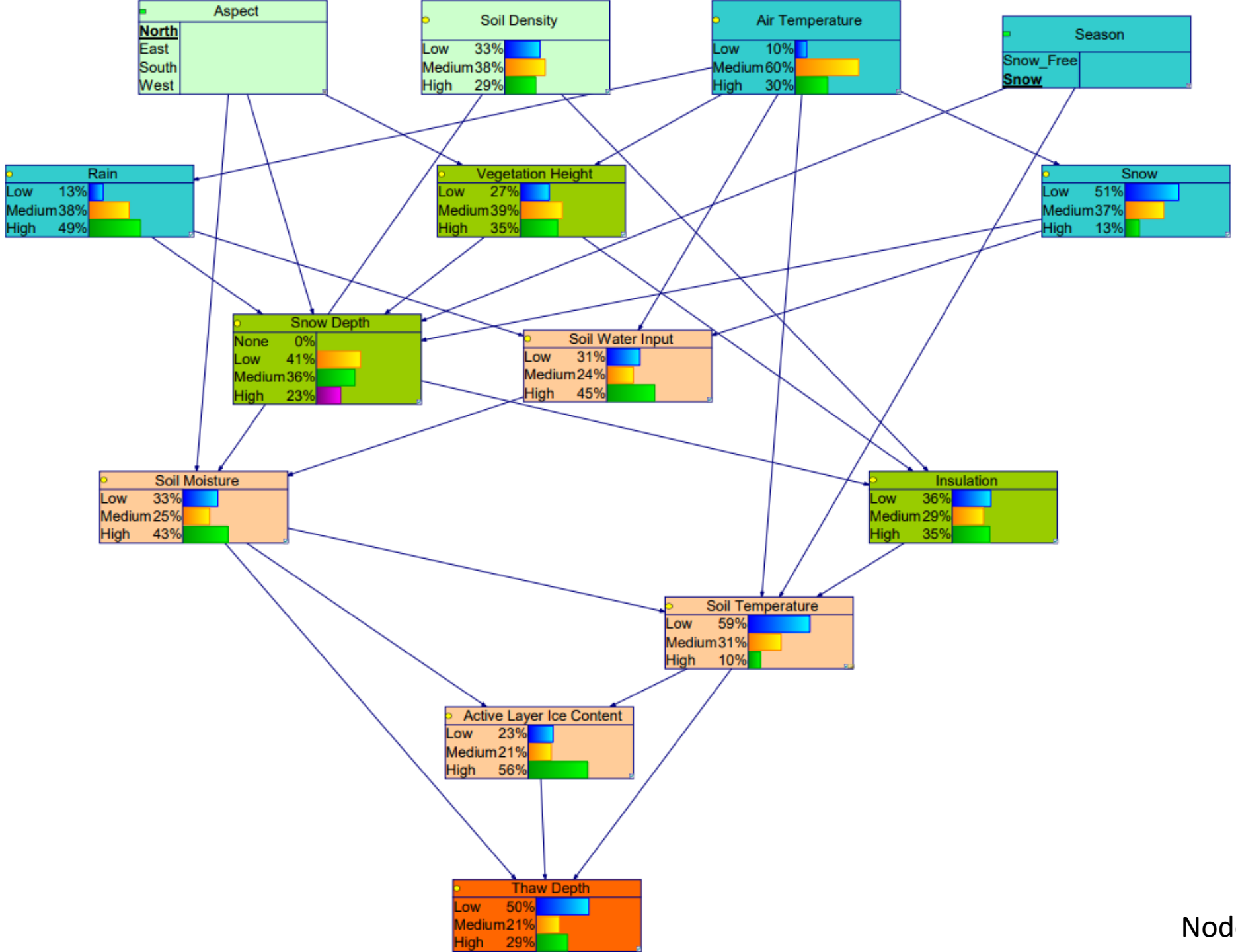
Aspect = North
Soil Density = Low
Air Temperature = Low
Season = Snow

Nodes Informed: All except Thaw Depth



Aspect = South
Soil Density = High
Air Temperature = High
Season = Snow Free

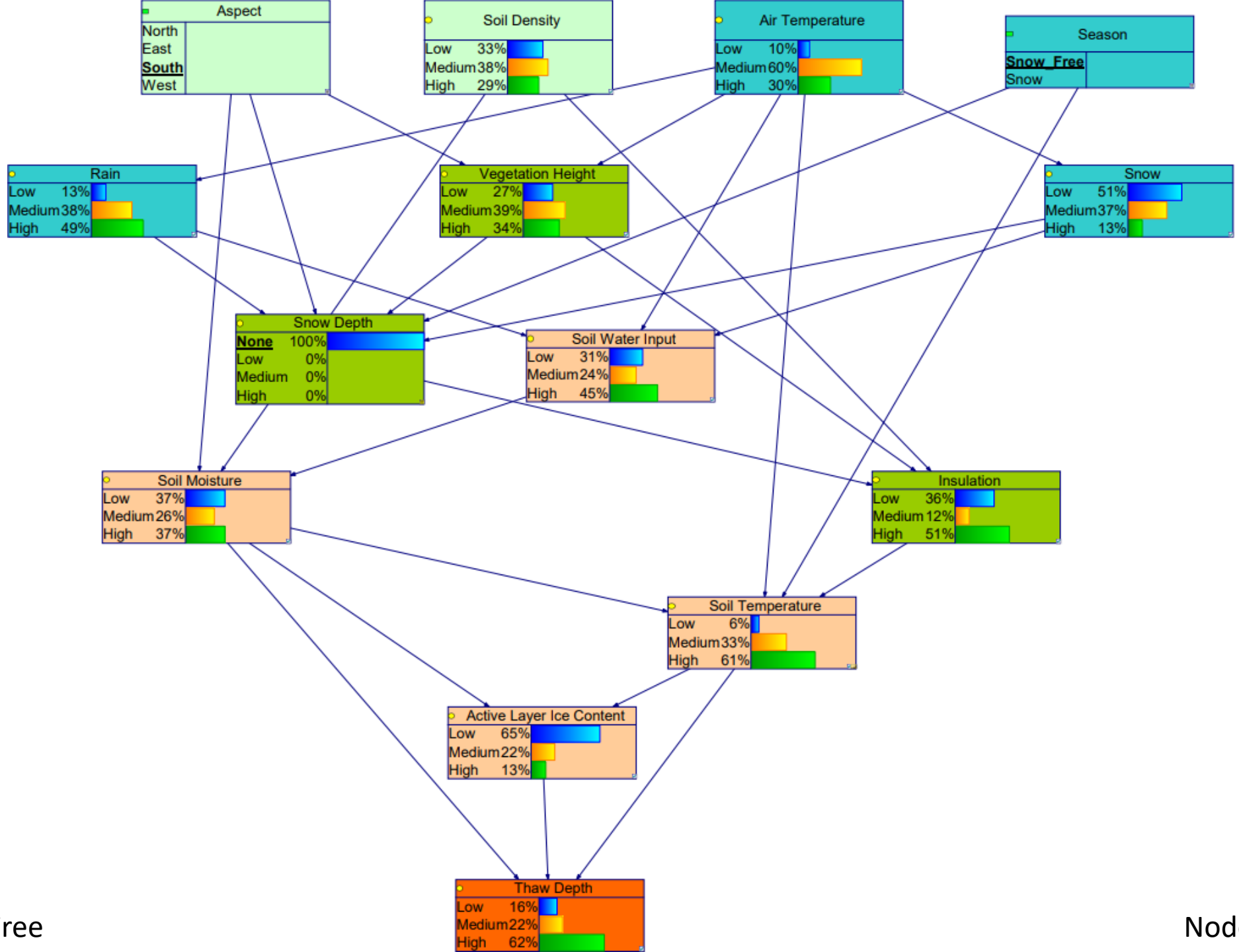
Nodes Informed: All except Thaw Depth



Aspect = North

Season = Snow

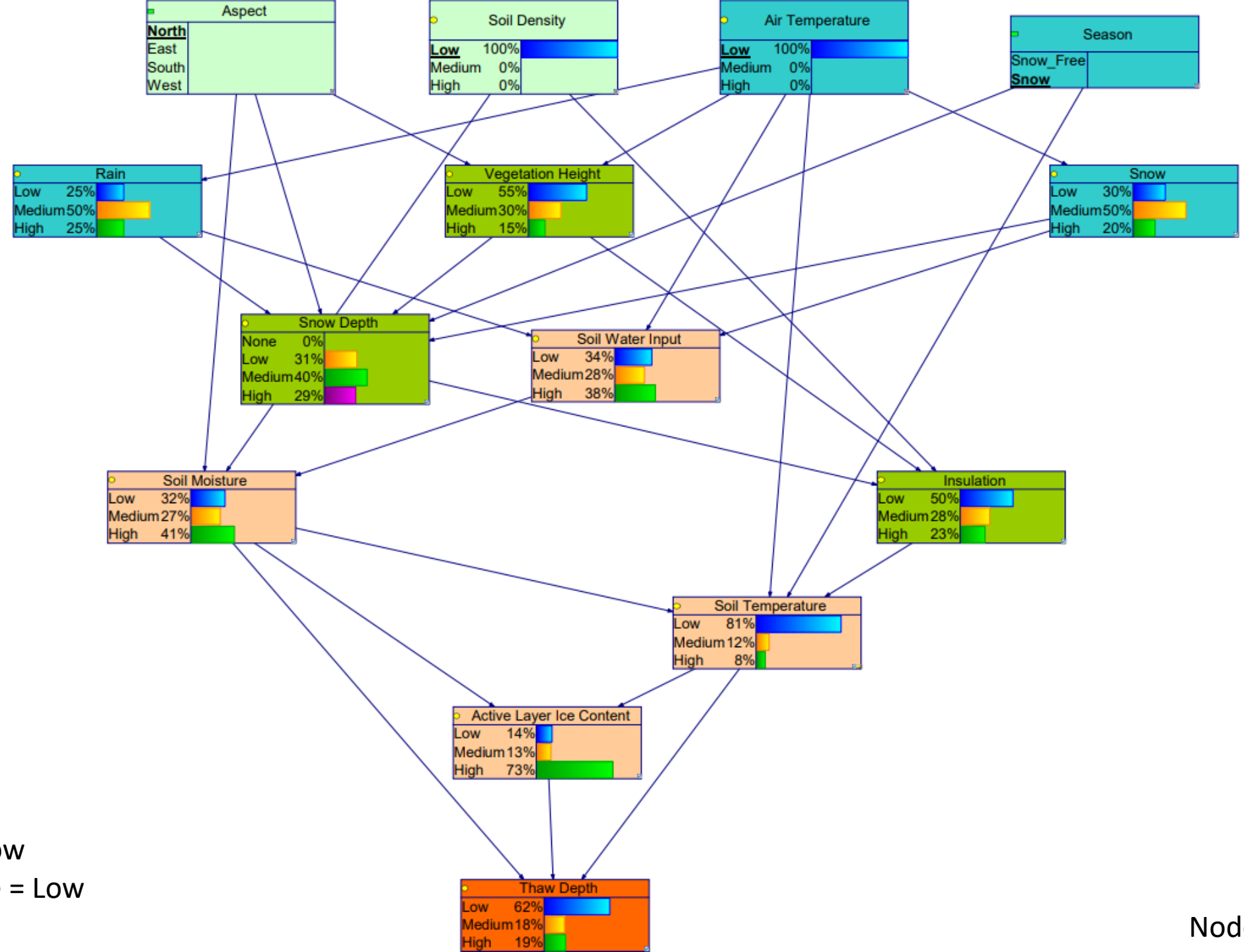
Nodes Informed: All



Aspect = South

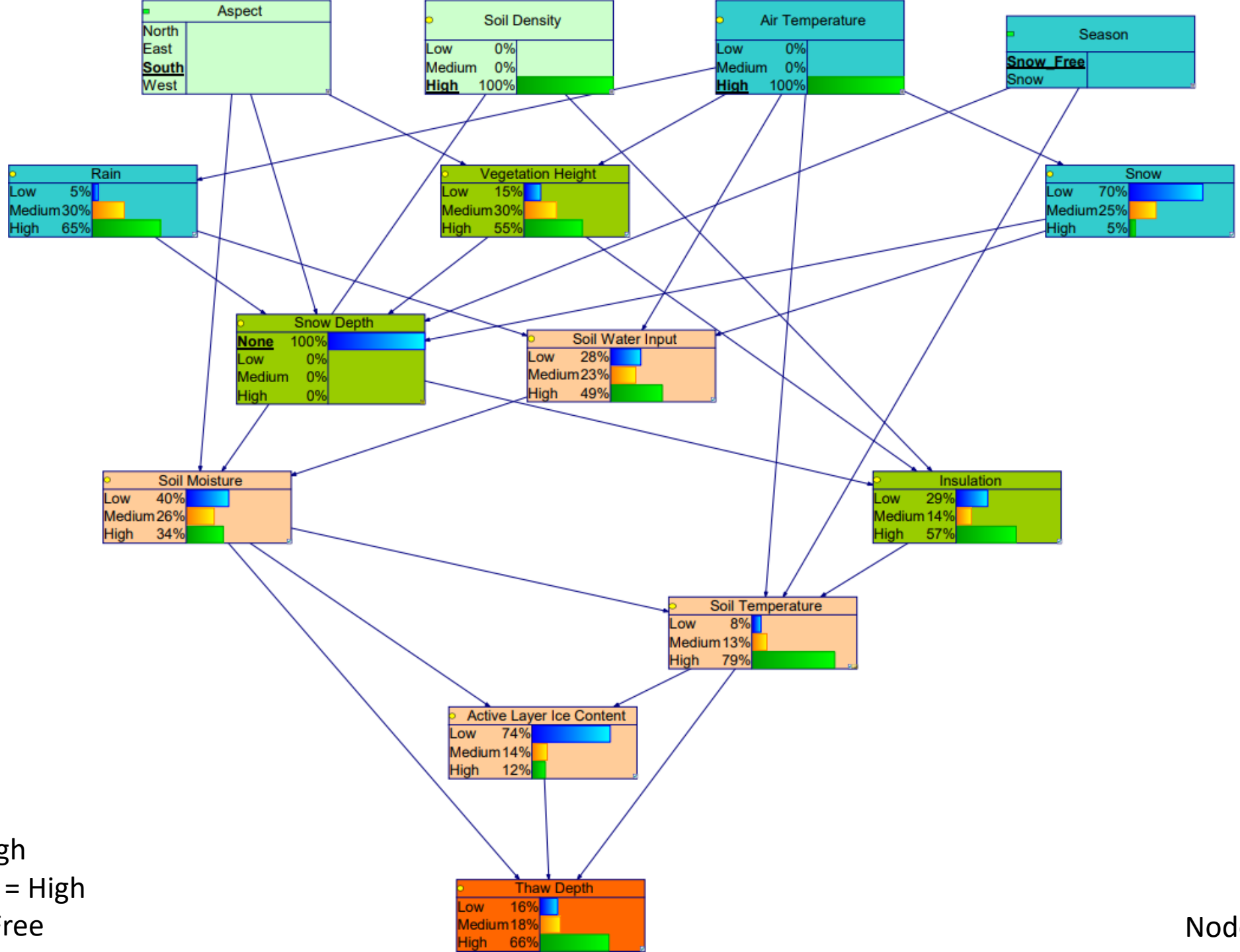
Season = Snow Free

Nodes Informed: All



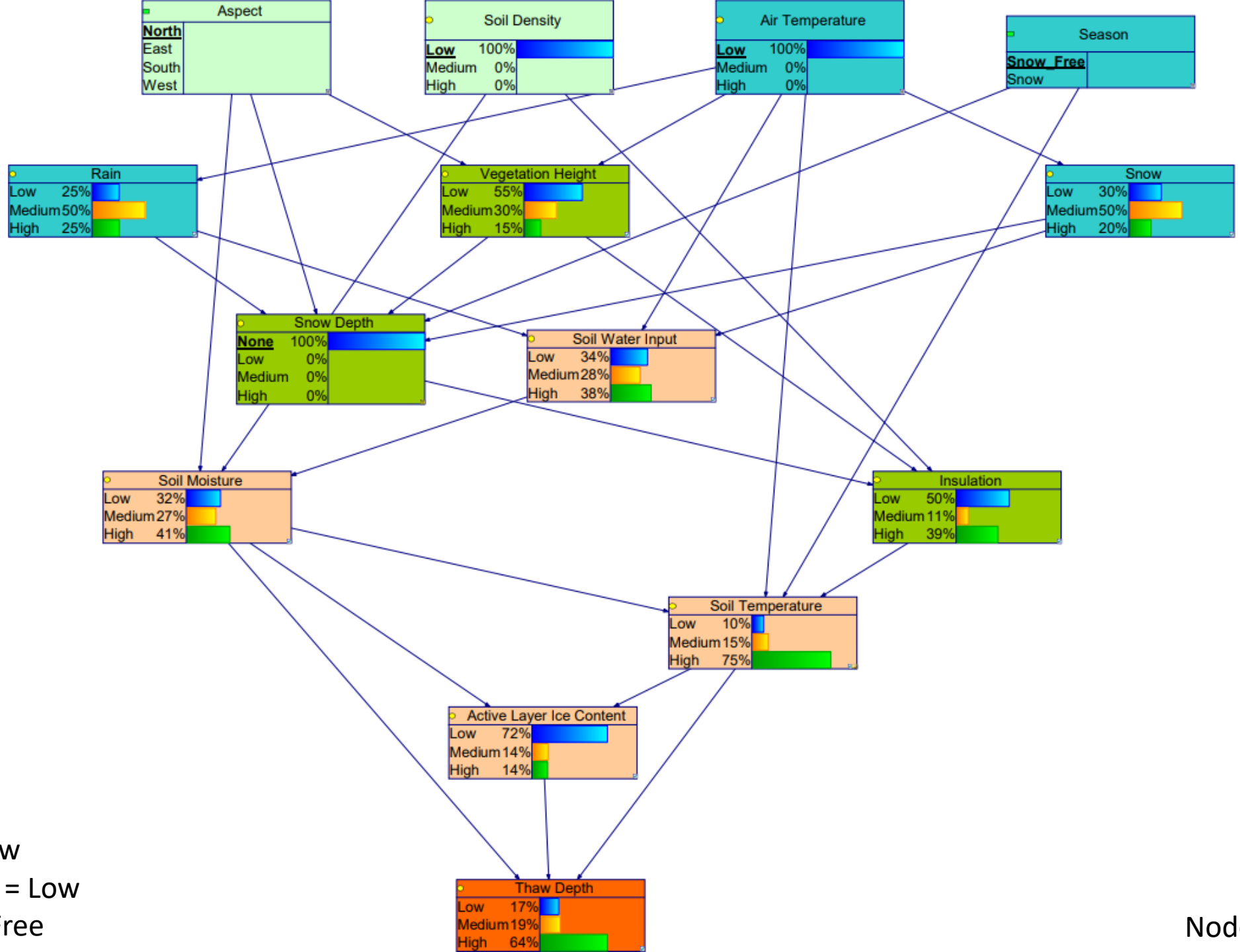
Aspect = North
Soil Density = Low
Air Temperature = Low
Season = Snow

Nodes Informed: All



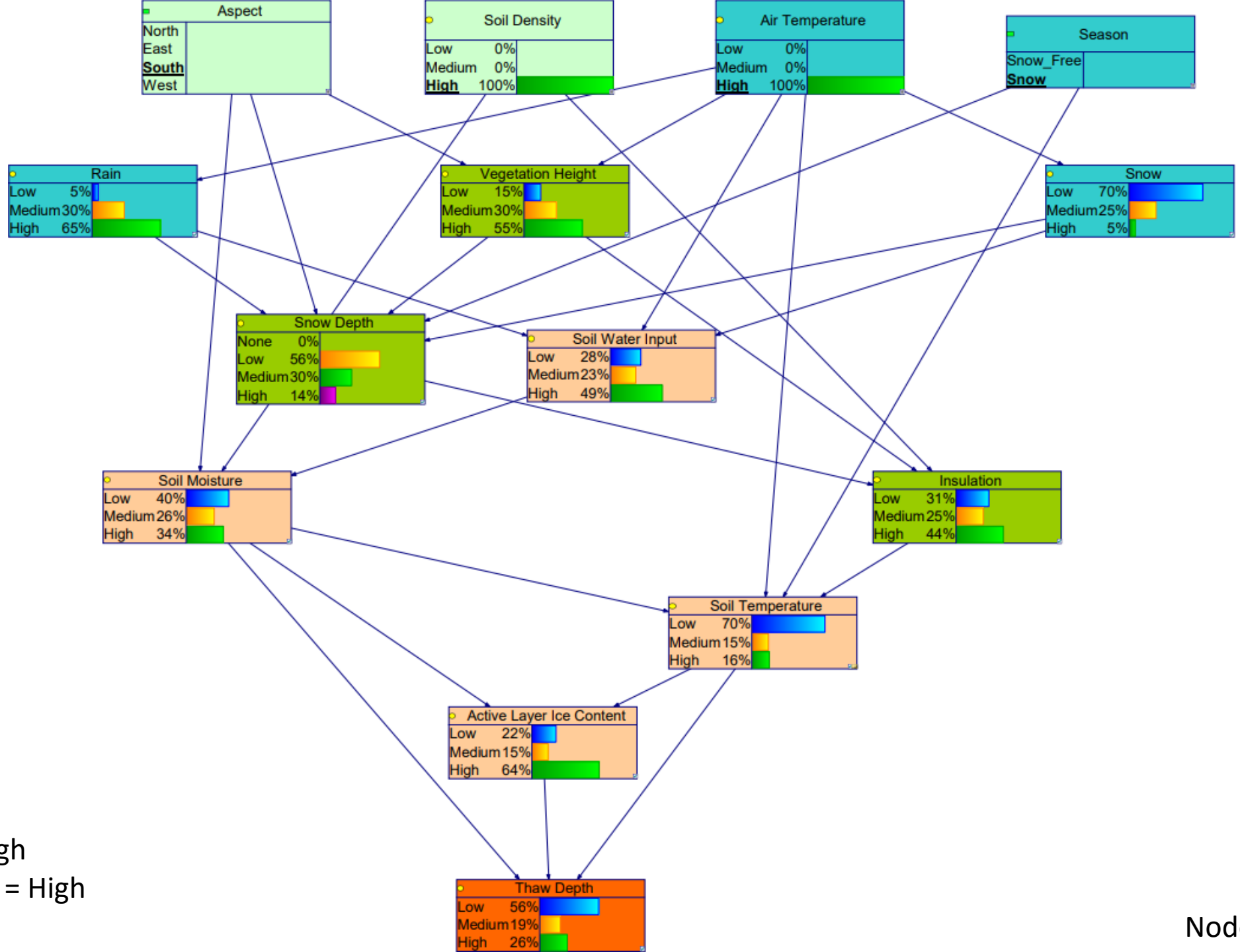
Aspect = South
Soil Density = High
Air Temperature = High
Season = Snow Free

Nodes Informed: All



Aspect = North
Soil Density = Low
Air Temperature = Low
Season = Snow Free

Nodes Informed: All

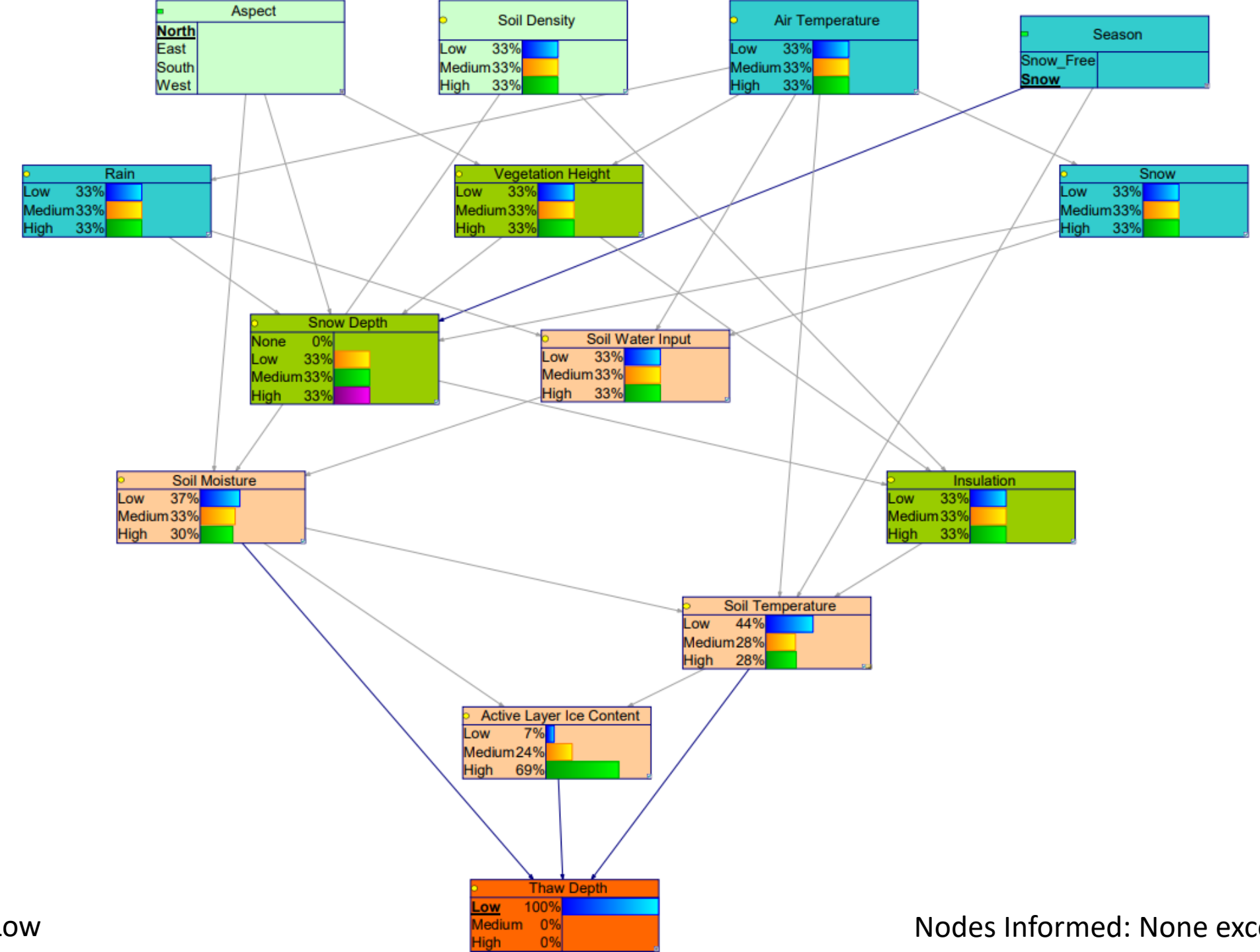


Aspect = South
Soil Density = High
Air Temperature = High
Season = Snow

Nodes Informed: All

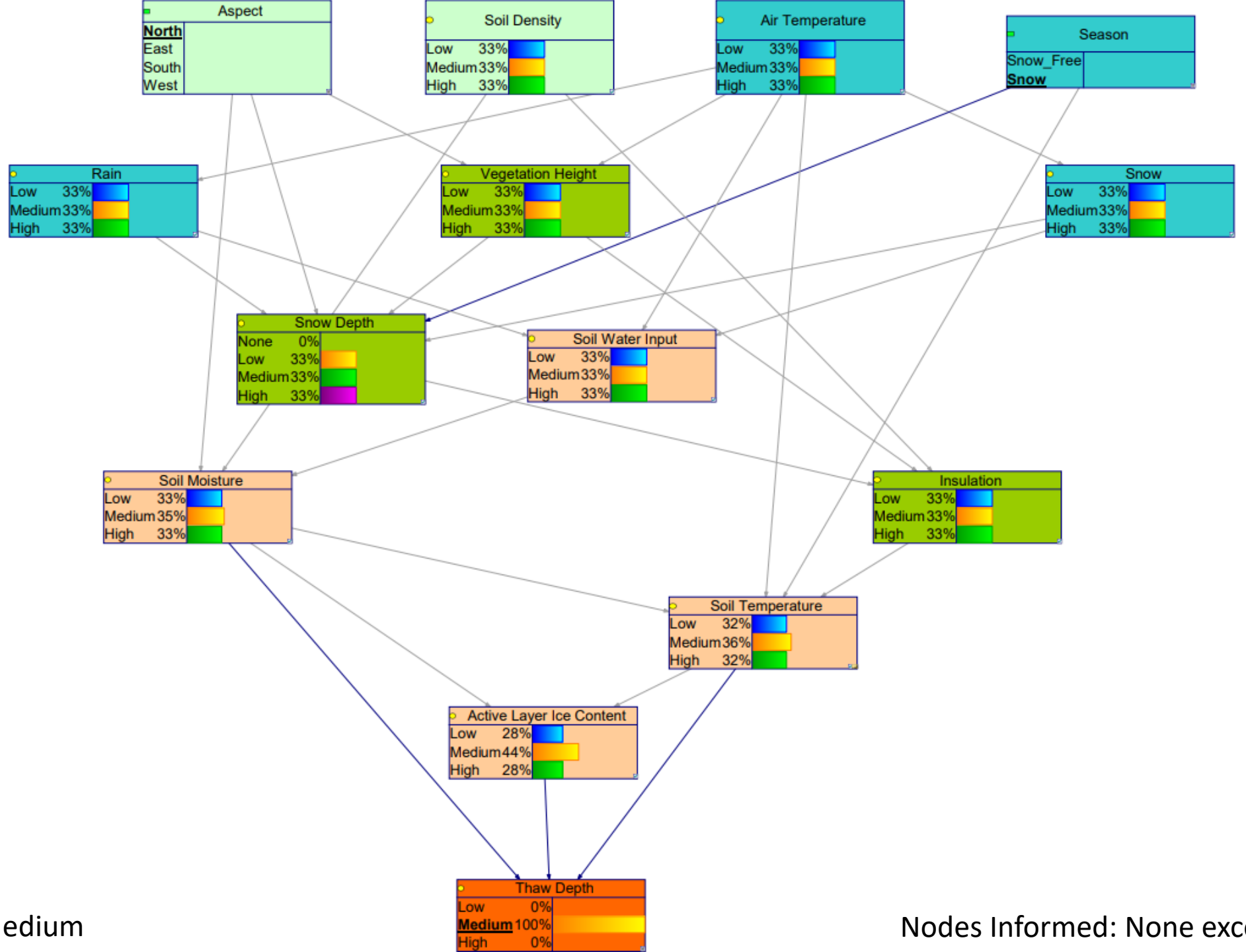
Expert Assessment Validation

Diagnosis



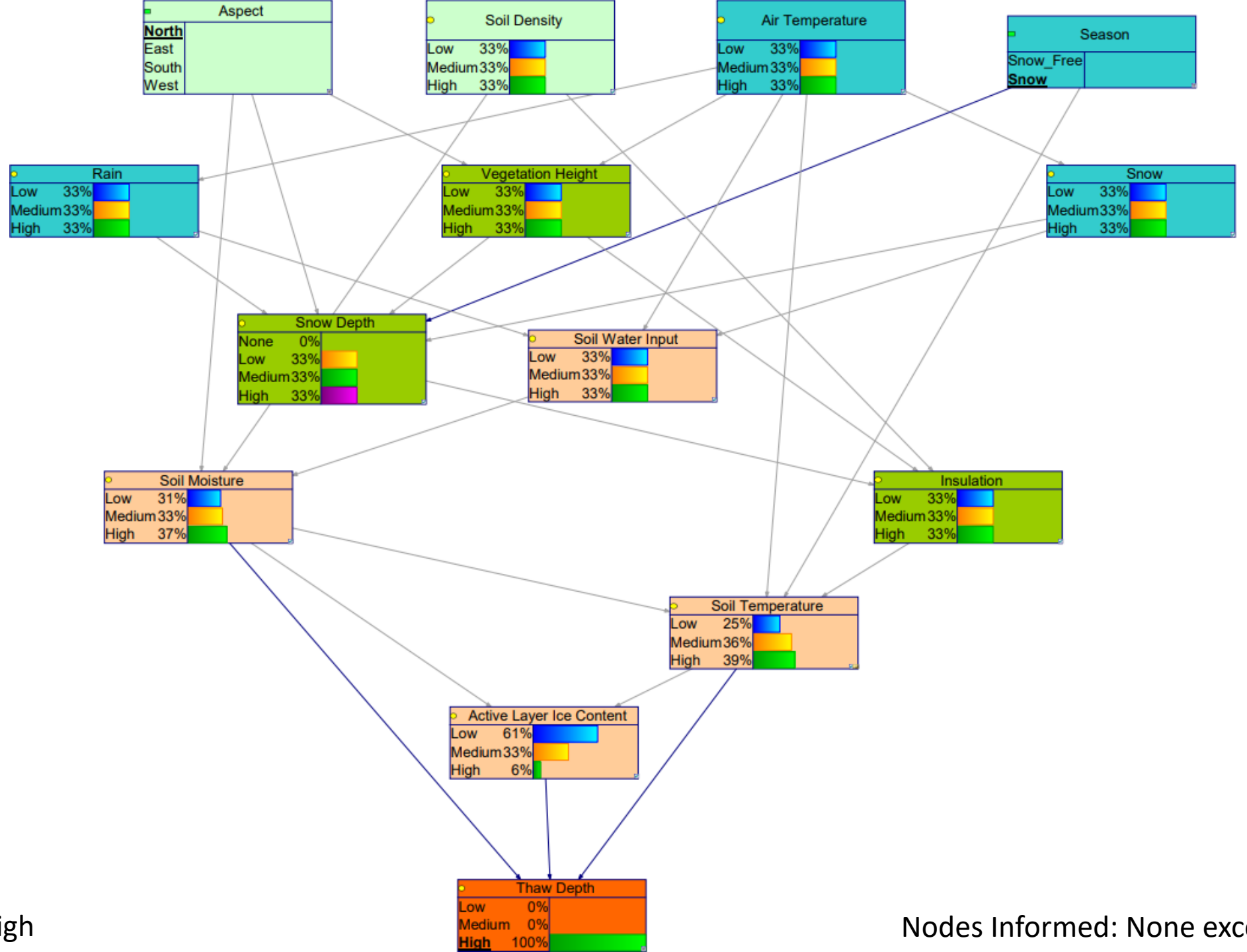
Aspect = North
Season = Snow
Thaw Depth = Low

Nodes Informed: None except Thaw Depth



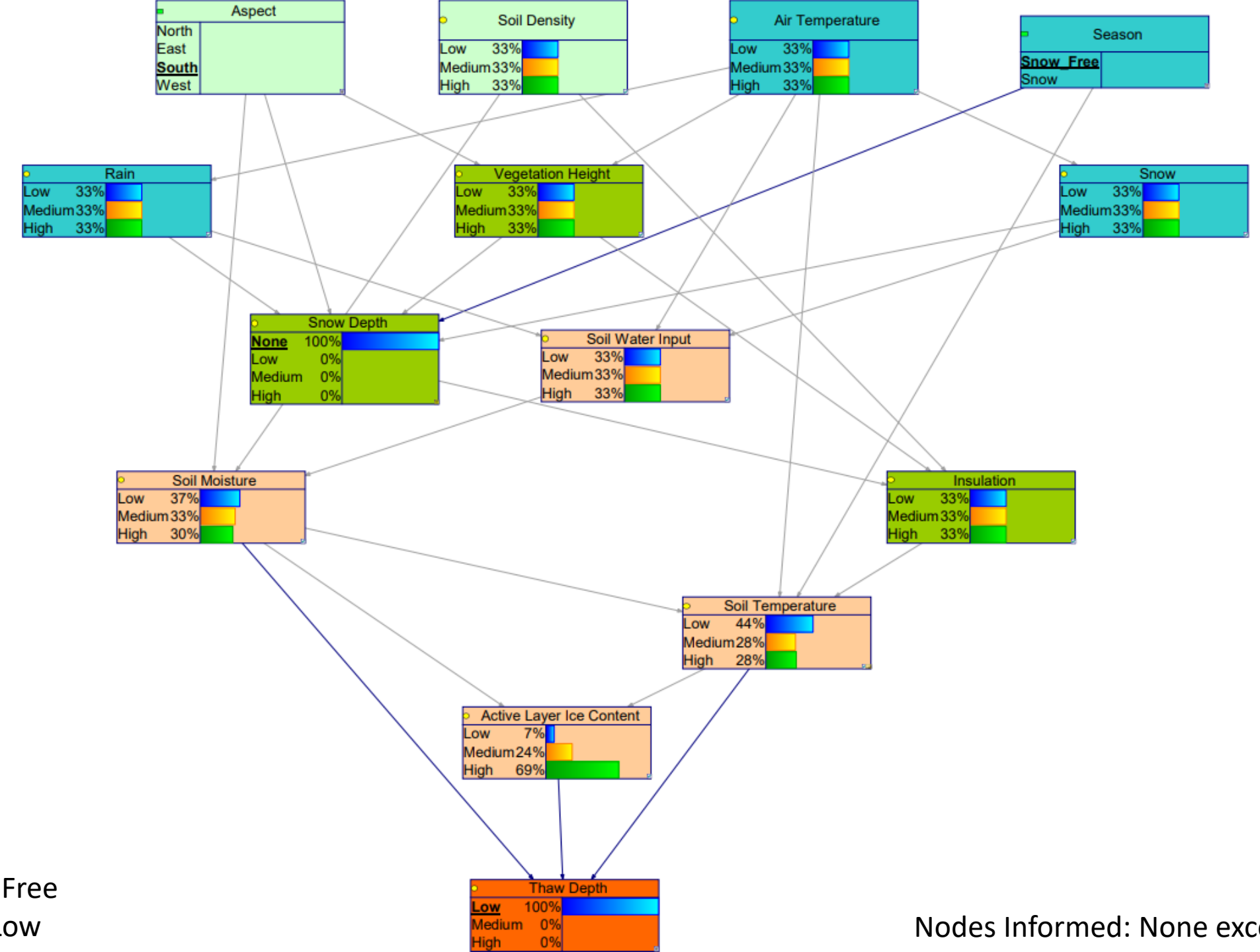
Aspect = North
Season = Snow
Thaw Depth = Medium

Nodes Informed: None except Thaw Depth



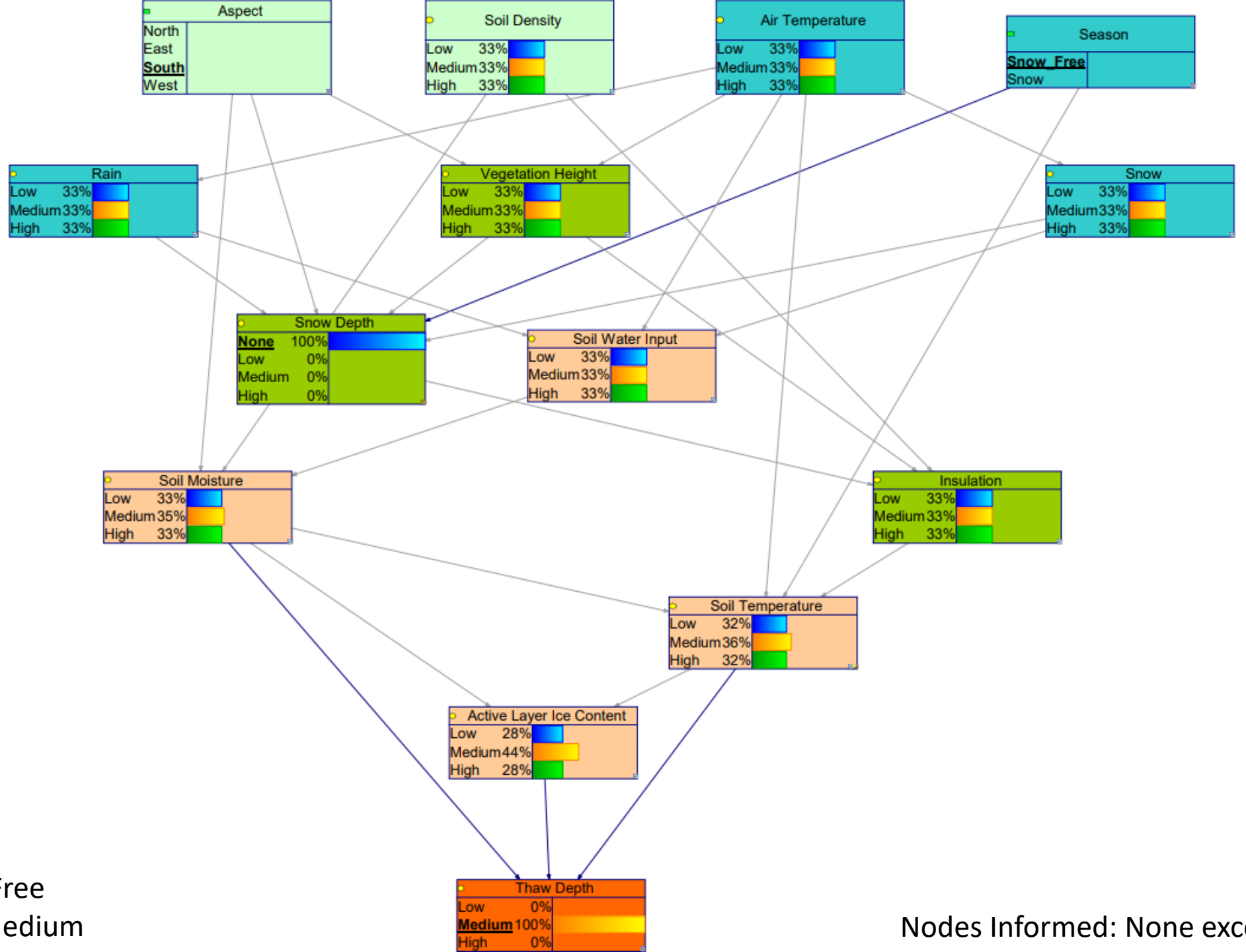
Aspect = North
Season = Snow
Thaw Depth = High

Nodes Informed: None except Thaw Depth



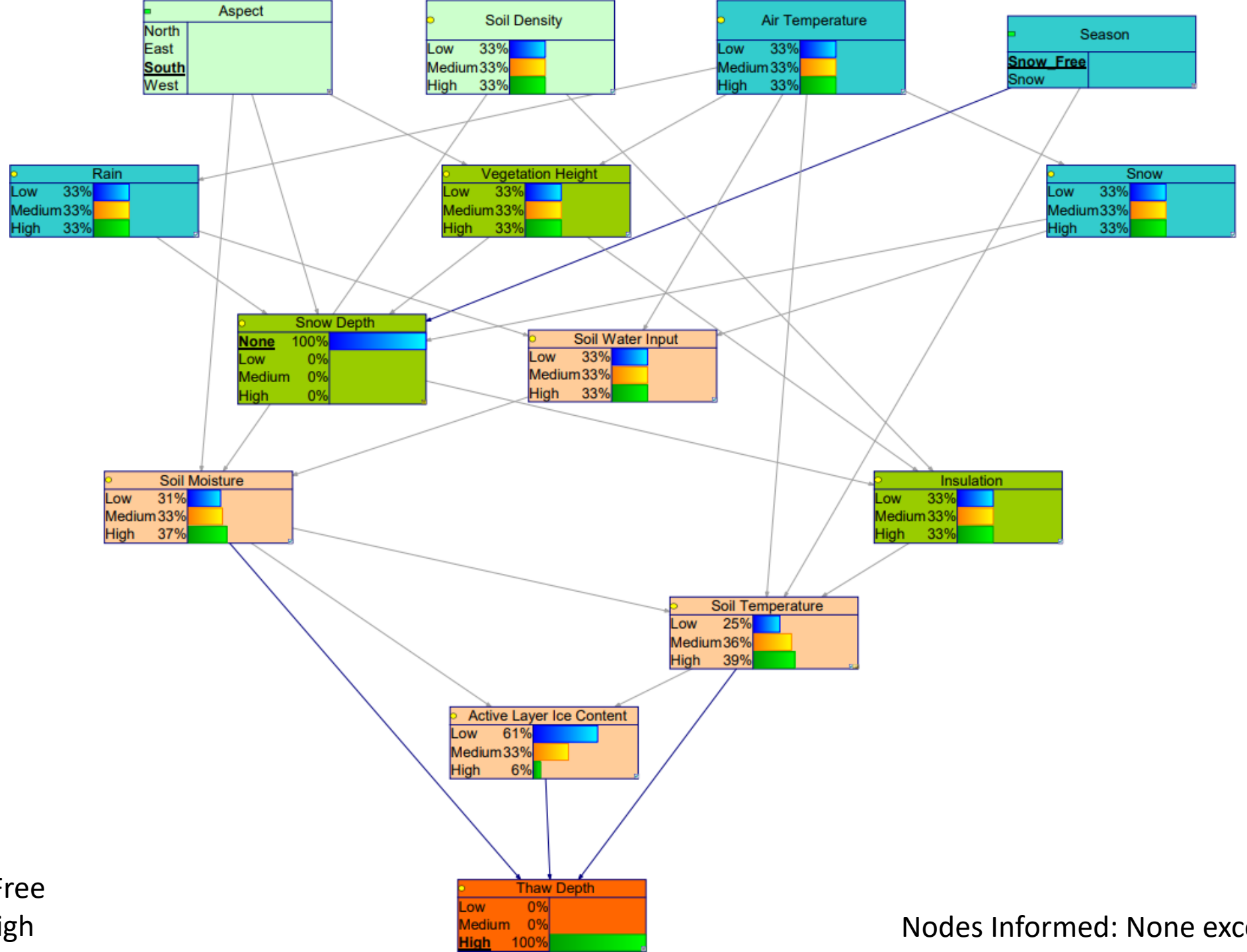
Aspect = South
Season = Snow Free
Thaw Depth = Low

Nodes Informed: None except Thaw Depth



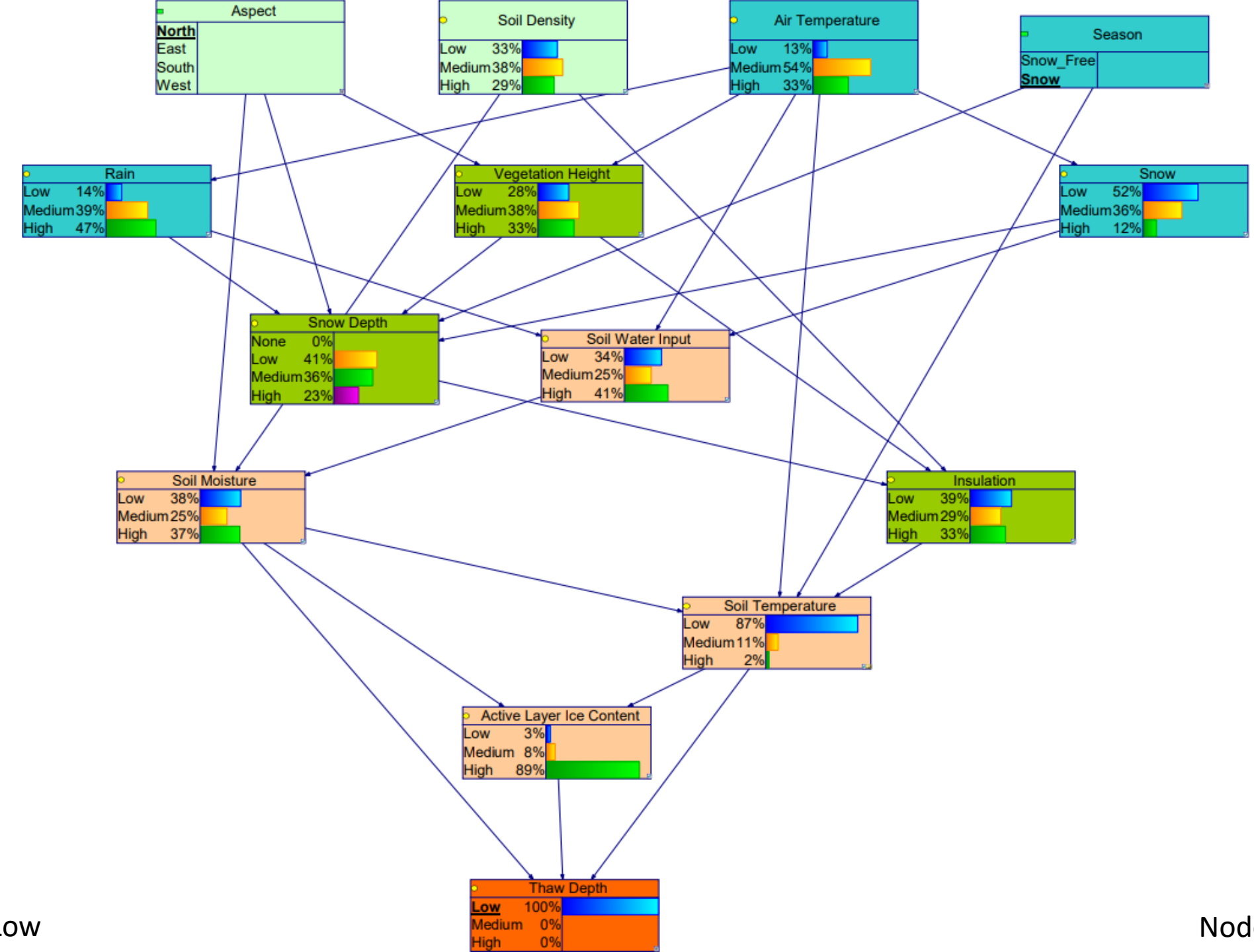
Aspect = South
Season = Snow Free
Thaw Depth = Medium

Nodes Informed: None except Thaw Depth



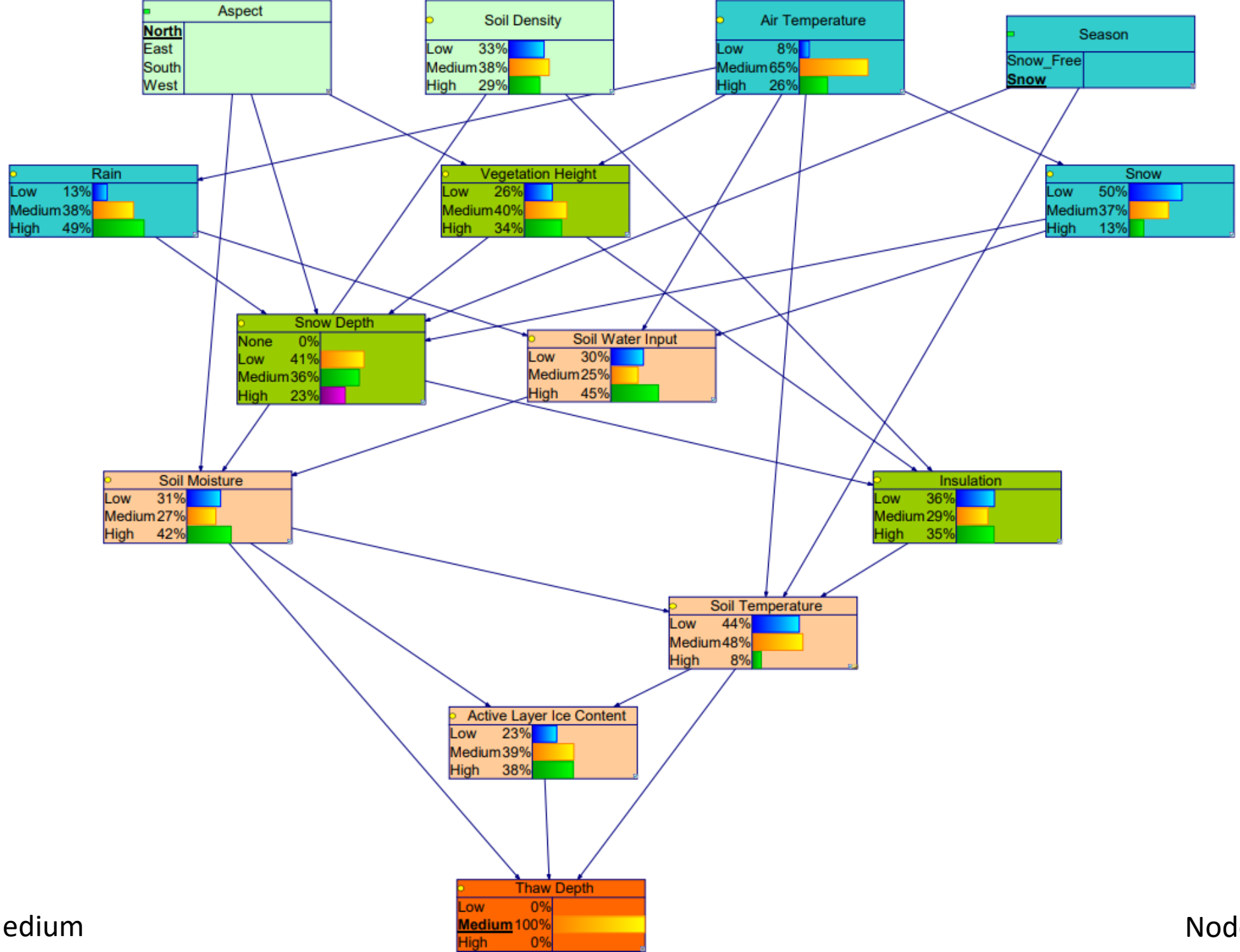
Aspect = South
Season = Snow Free
Thaw Depth = High

Nodes Informed: None except Thaw Depth



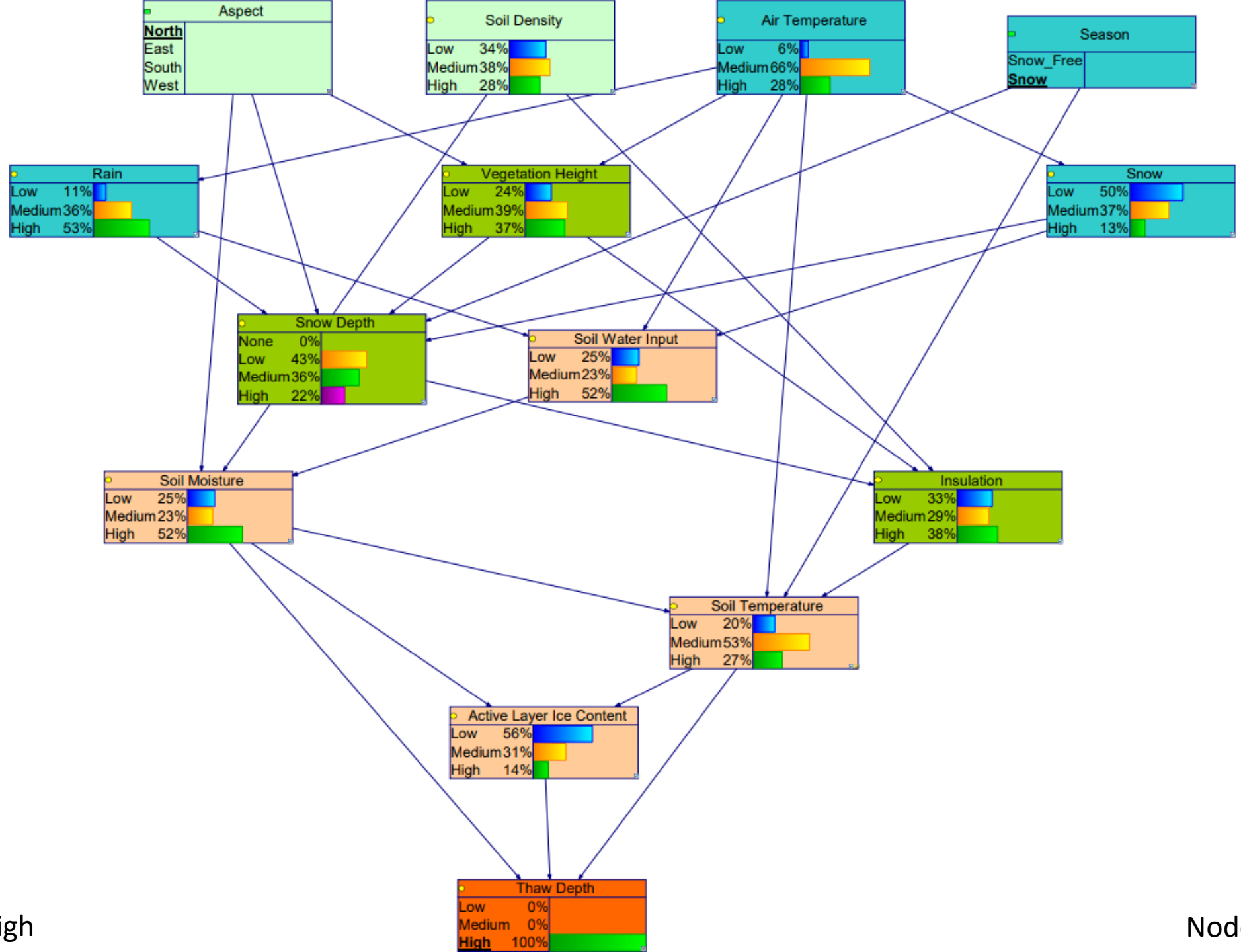
Aspect = North
Season = Snow
Thaw Depth = Low

Nodes Informed: All



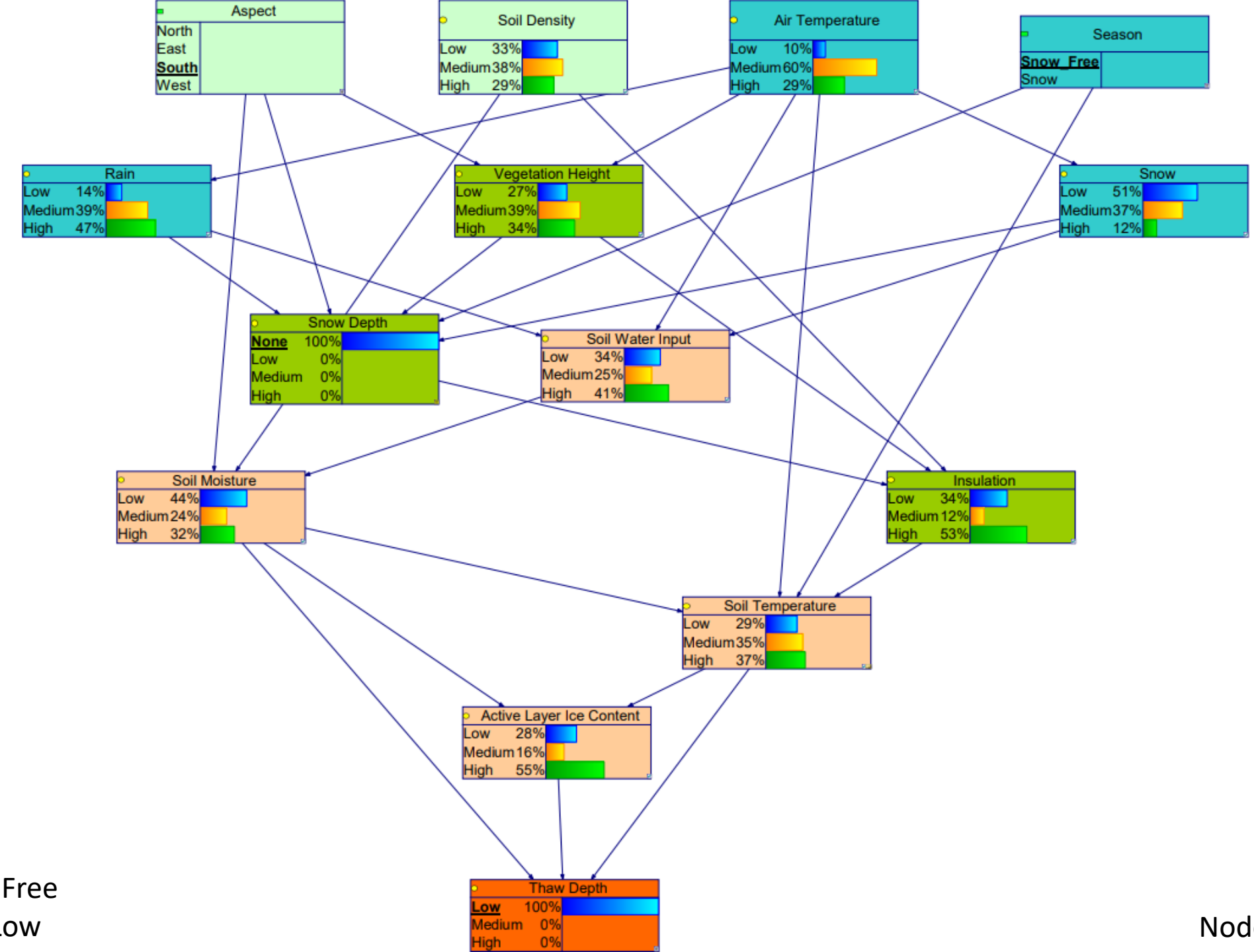
Aspect = North
Season = Snow
Thaw Depth = Medium

Nodes Informed: All



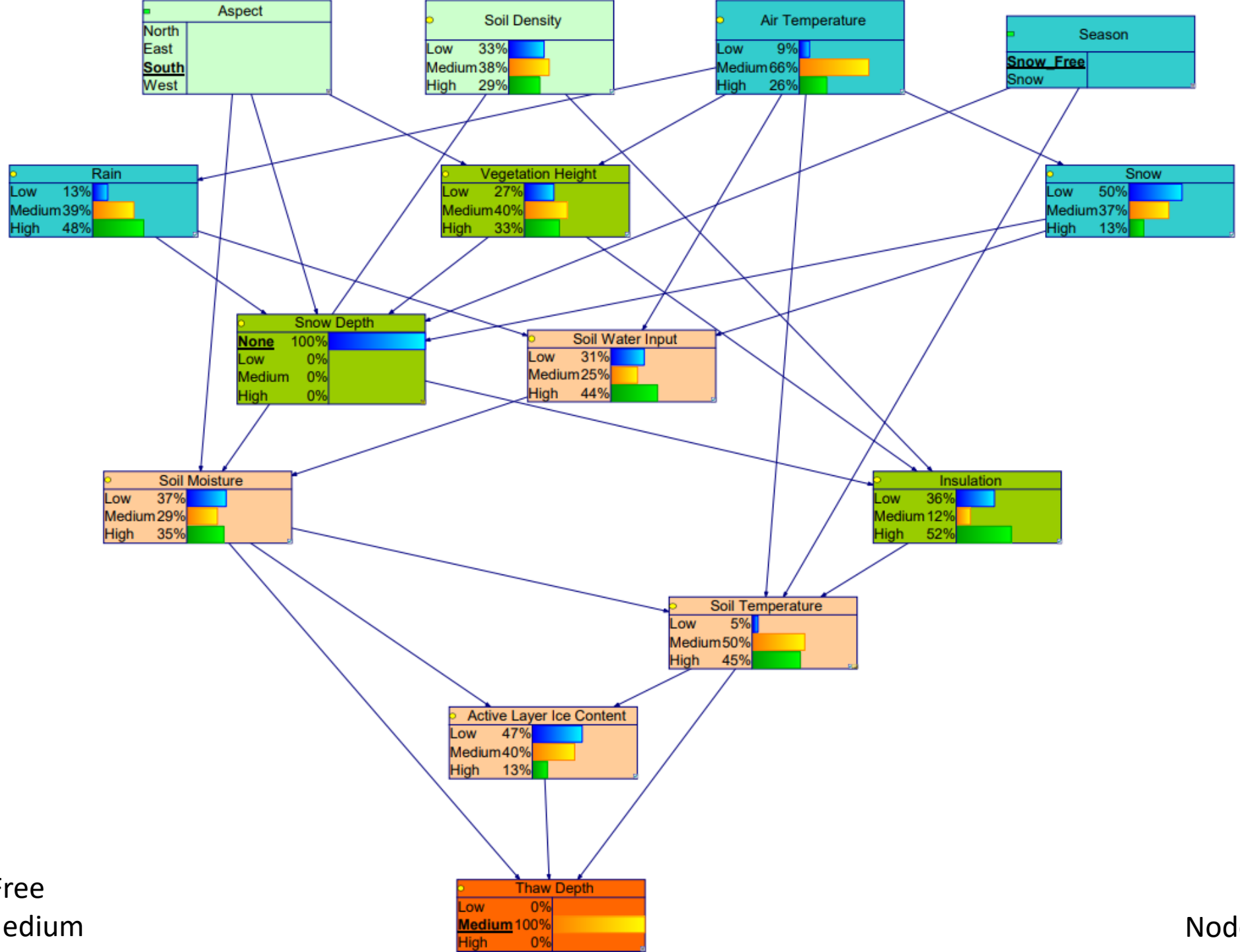
Aspect = North
Season = Snow
Thaw Depth = High

Nodes Informed: All



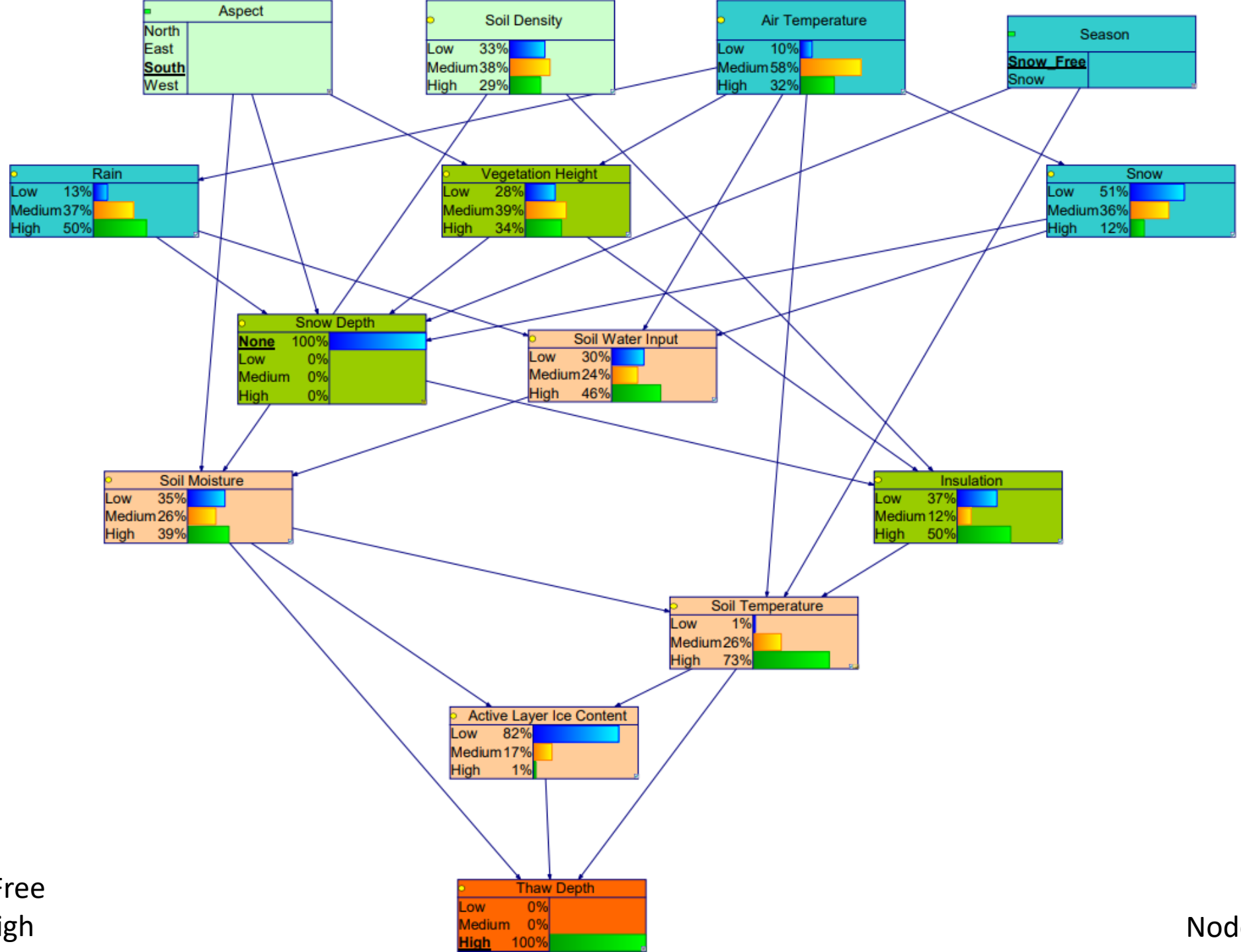
Aspect = South
Season = Snow Free
Thaw Depth = Low

Nodes Informed: All



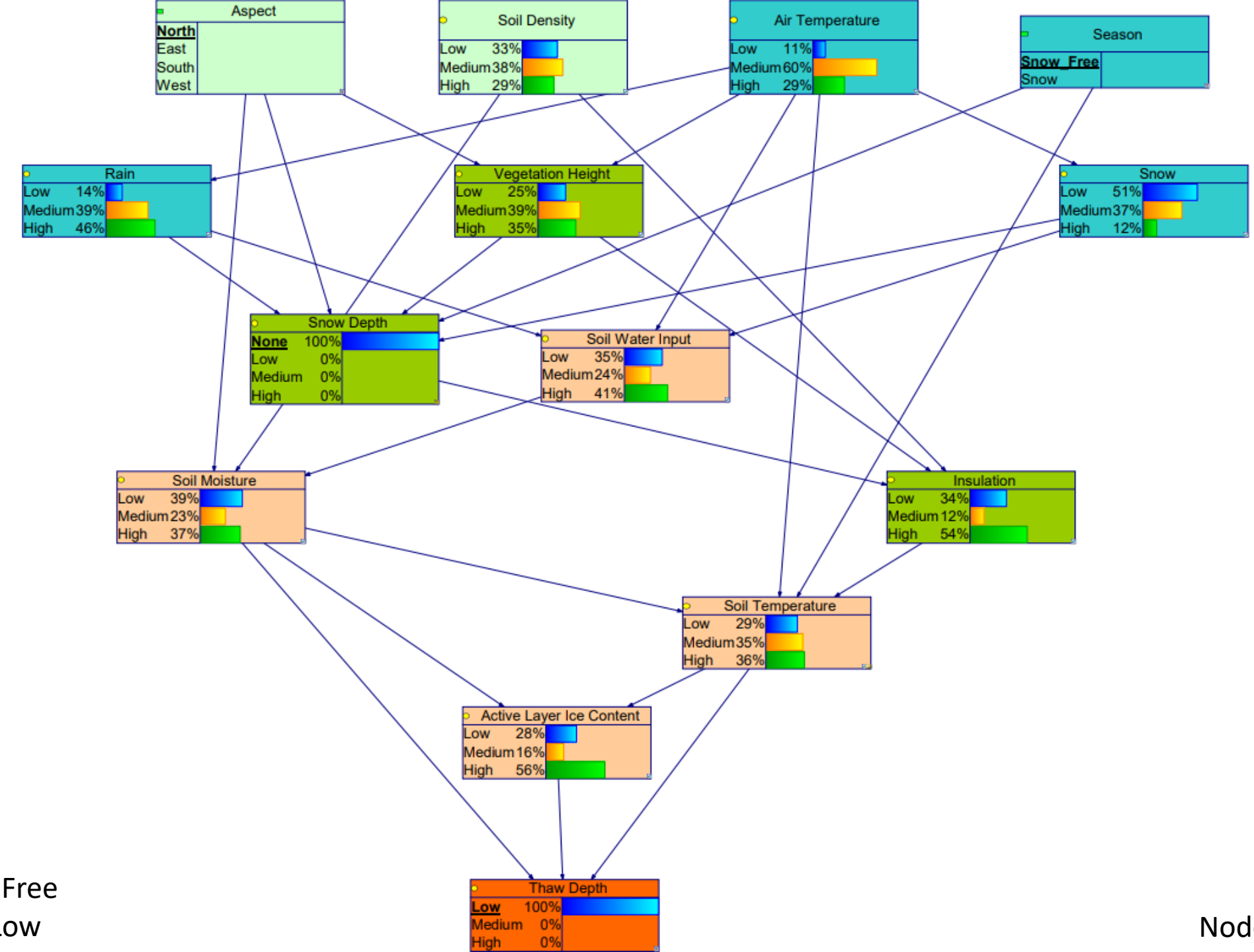
Aspect = South
Season = Snow Free
Thaw Depth = Medium

Nodes Informed: All



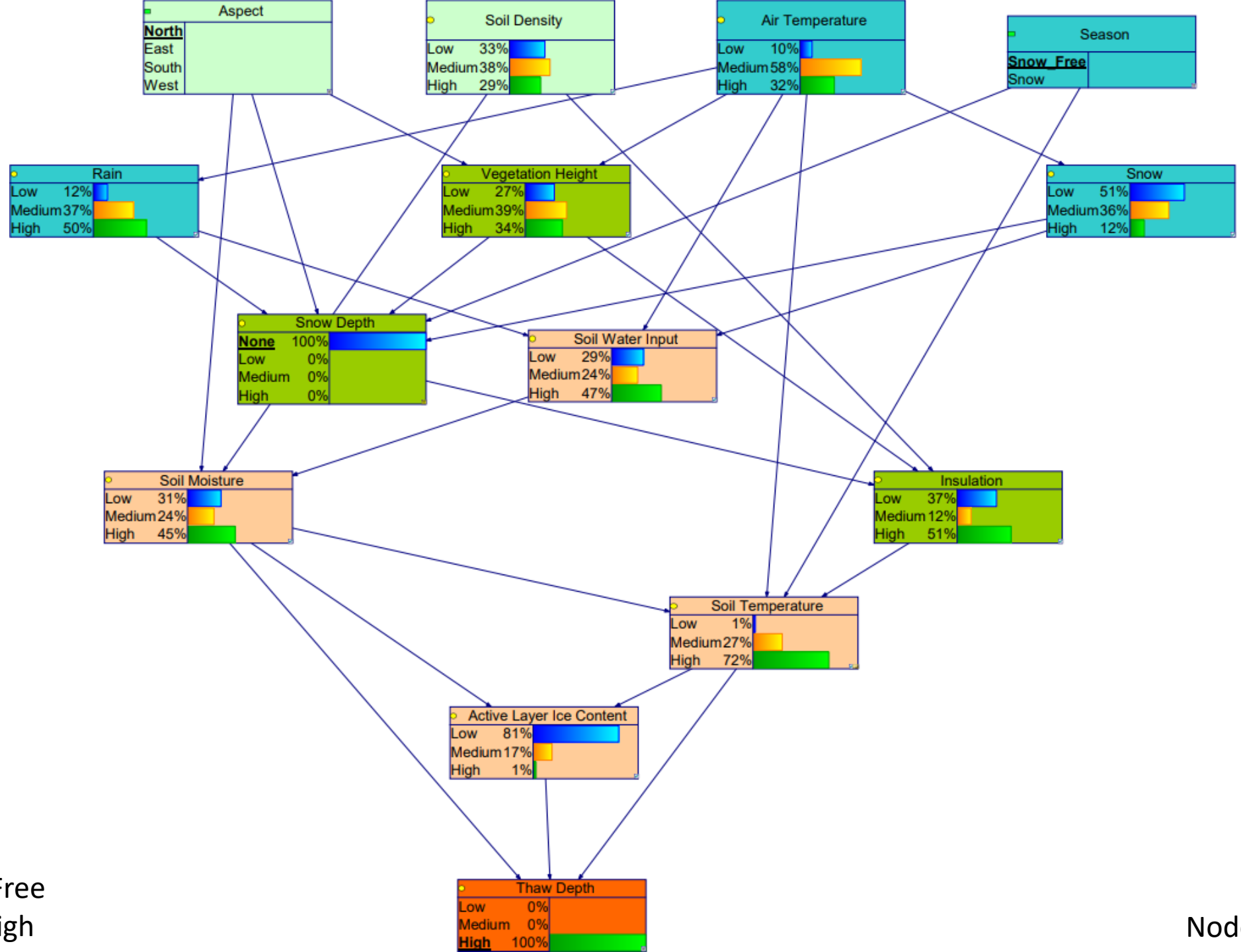
Aspect = South
Season = Snow Free
Thaw Depth = High

Nodes Informed: All



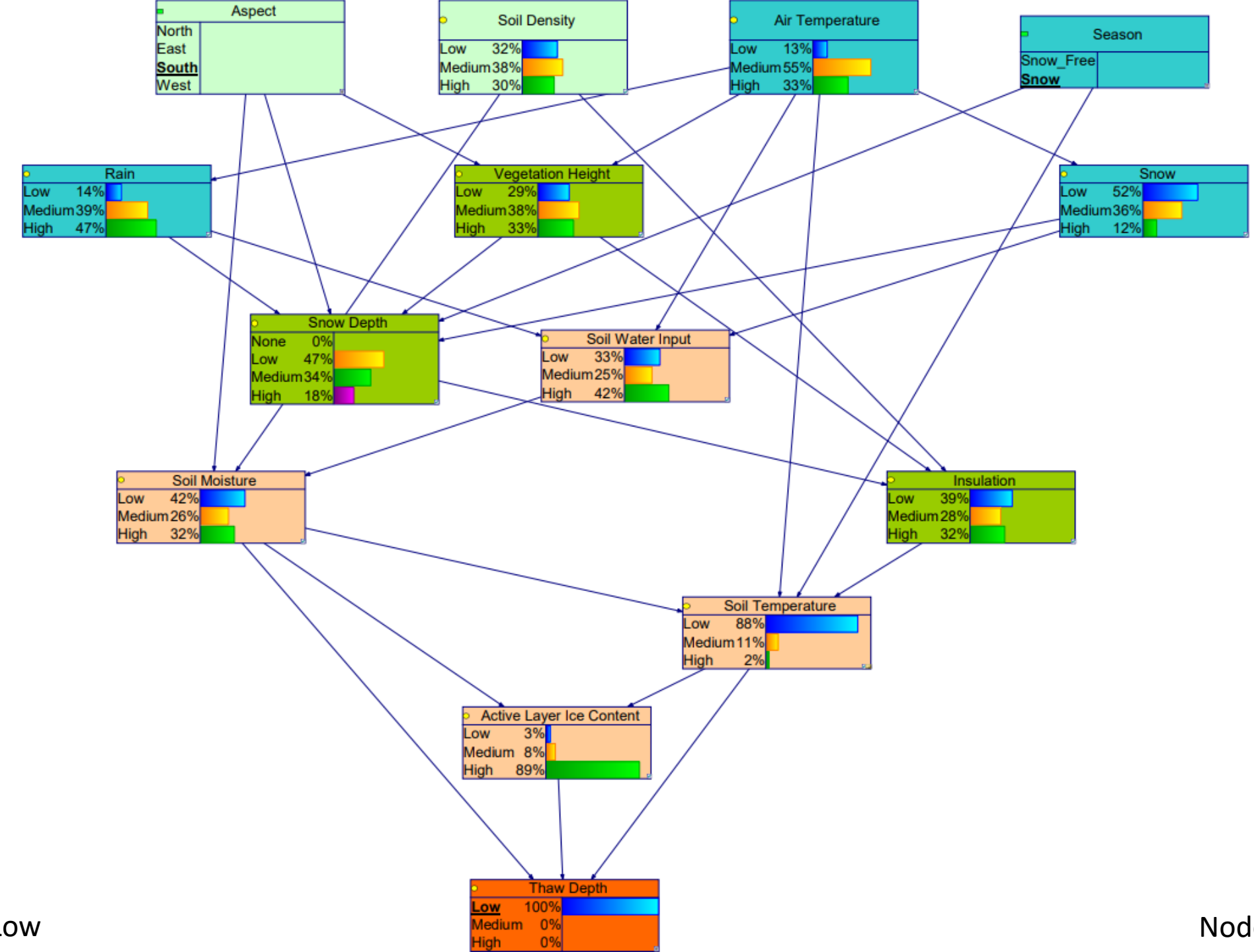
Aspect = North
Season = Snow Free
Thaw Depth = Low

Nodes Informed: All



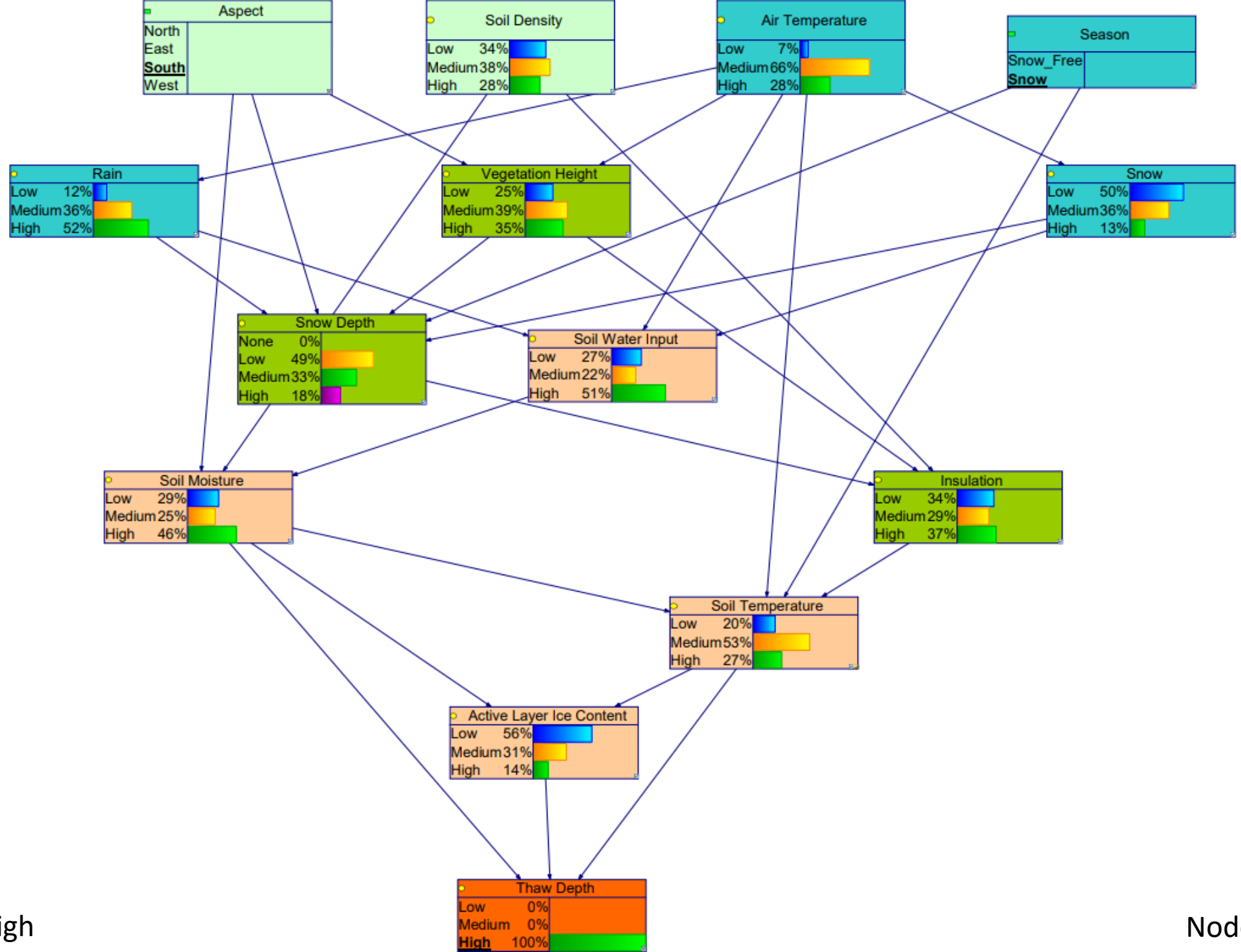
Aspect = North
Season = Snow Free
Thaw Depth = High

Nodes Informed: All



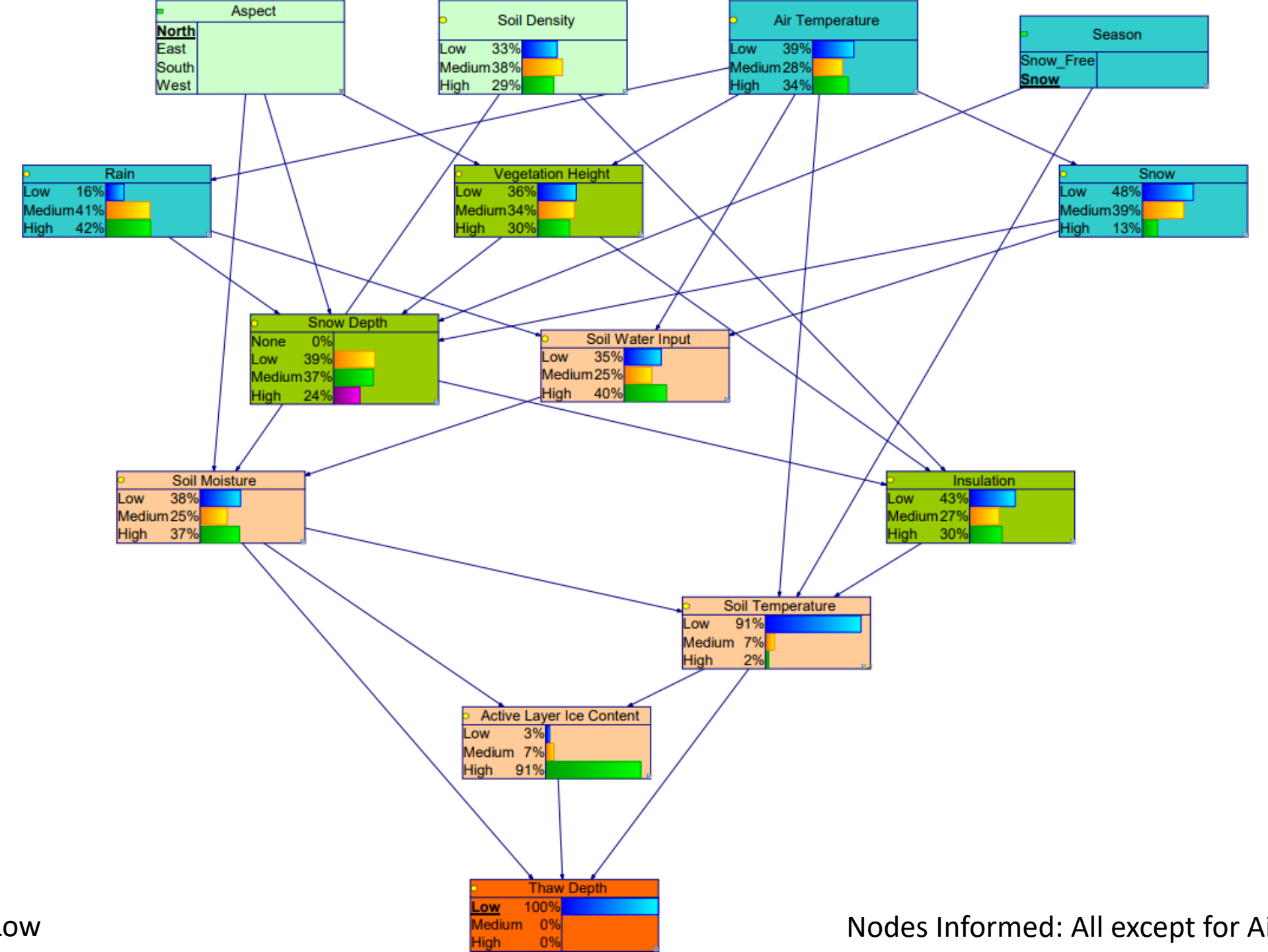
Aspect = South
Season = Snow
Thaw Depth = Low

Nodes Informed: All



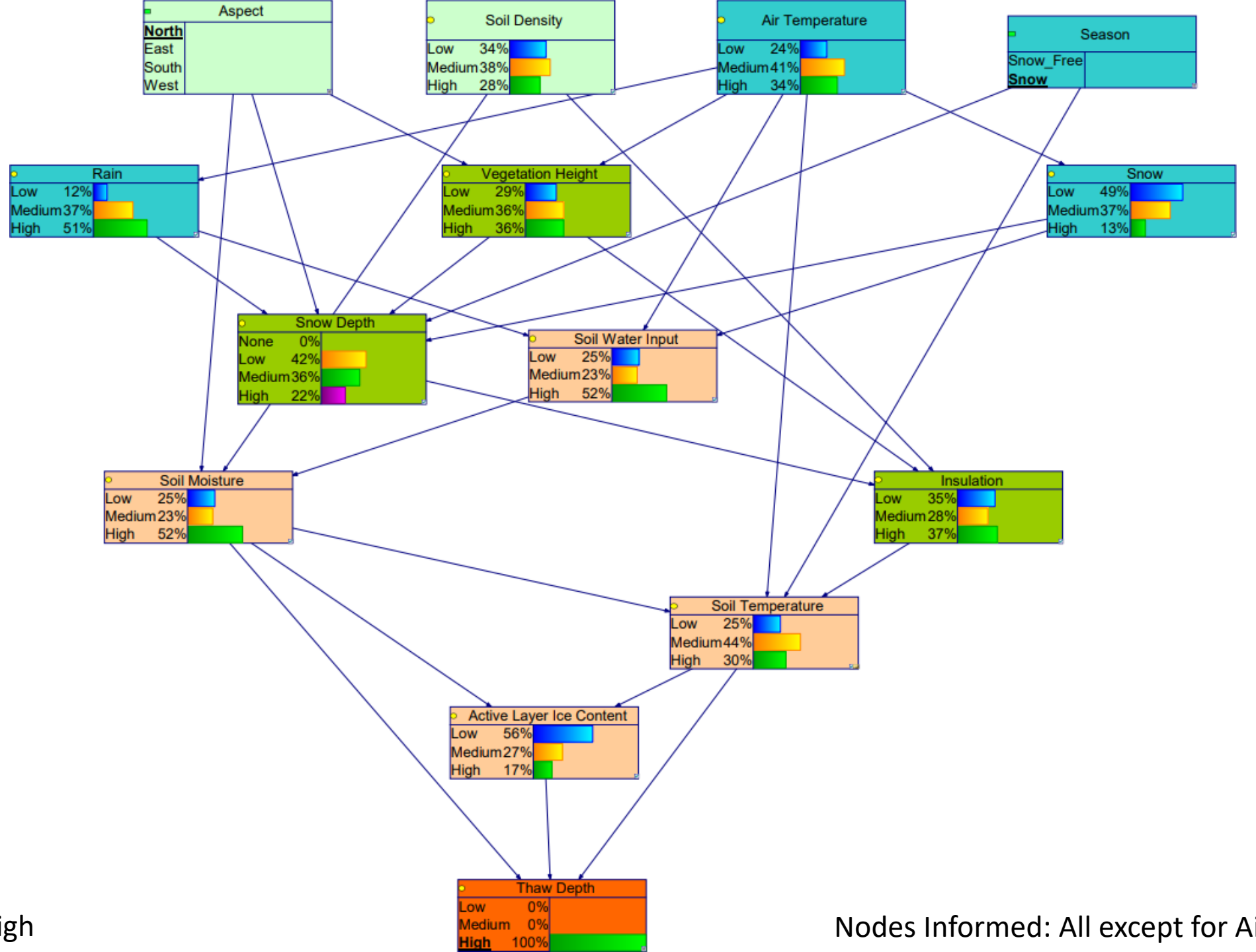
Aspect = South
Season = Snow
Thaw Depth = High

Nodes Informed: All



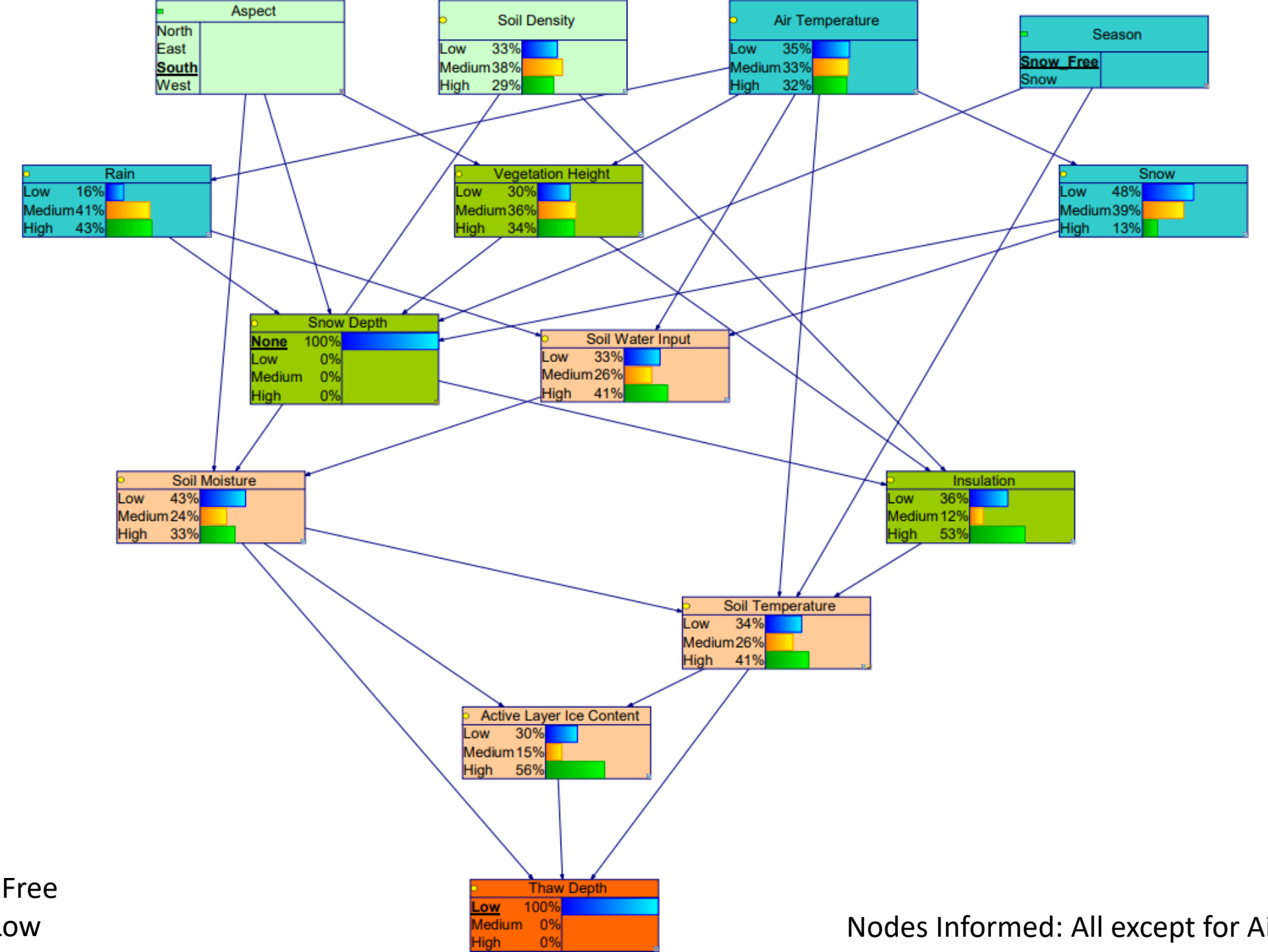
Aspect = North
Season = Snow
Thaw Depth = Low

Nodes Informed: All except for Air Temperature



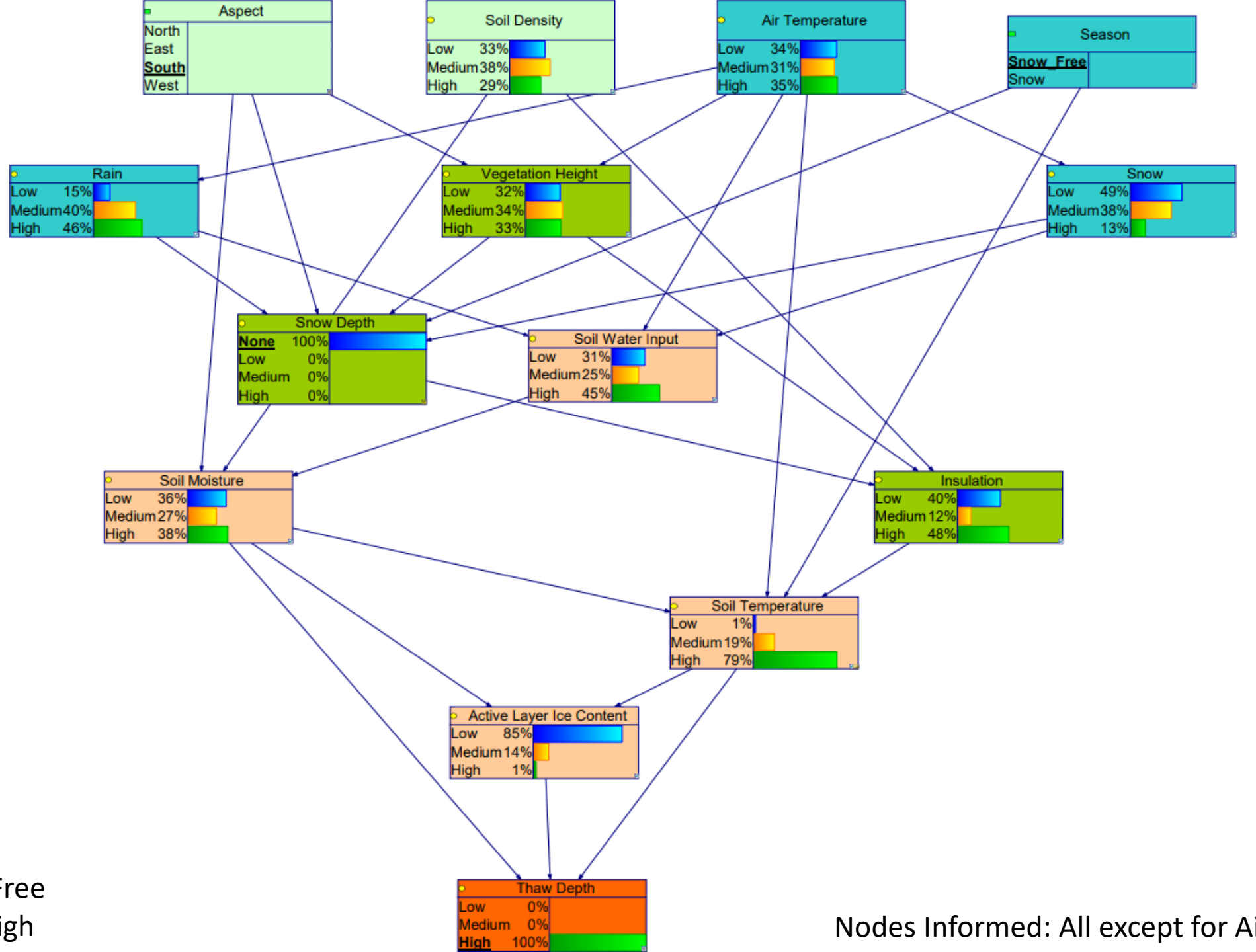
Aspect = North
Season = Snow
Thaw Depth = High

Nodes Informed: All except for Air Temperature



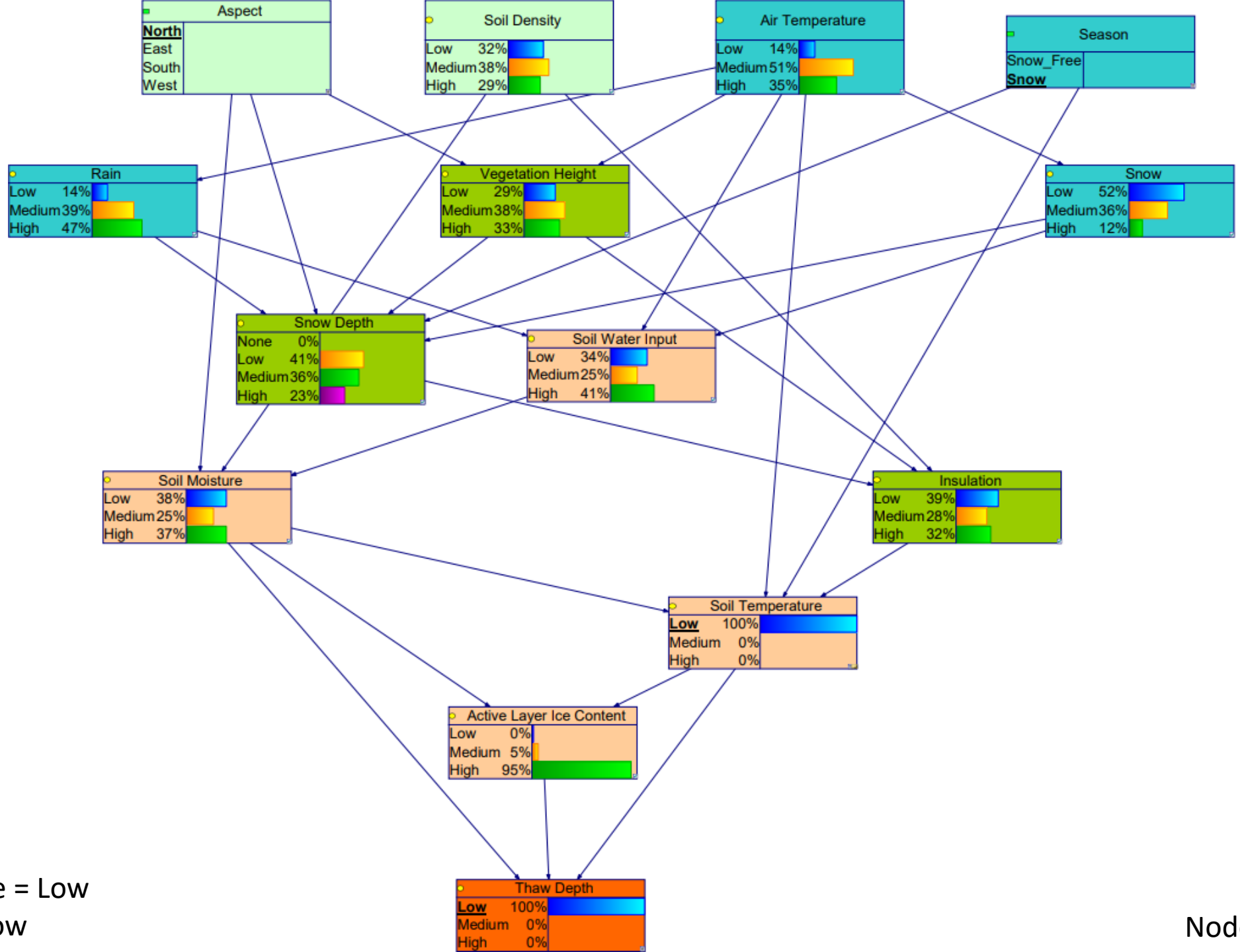
Aspect = South
Season = Snow Free
Thaw Depth = Low

Nodes Informed: All except for Air Temperature



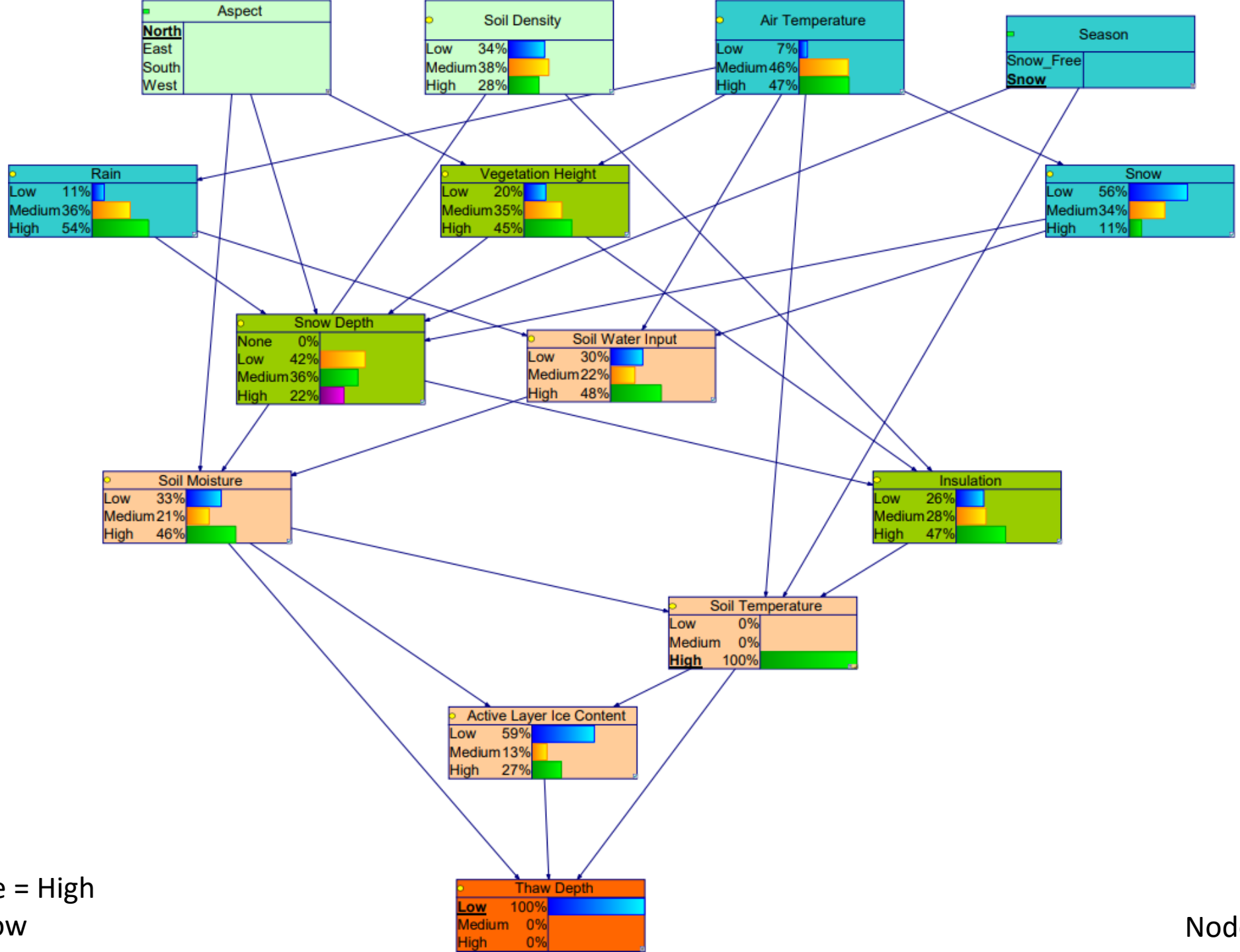
Aspect = South
Season = Snow Free
Thaw Depth = High

Nodes Informed: All except for Air Temperature



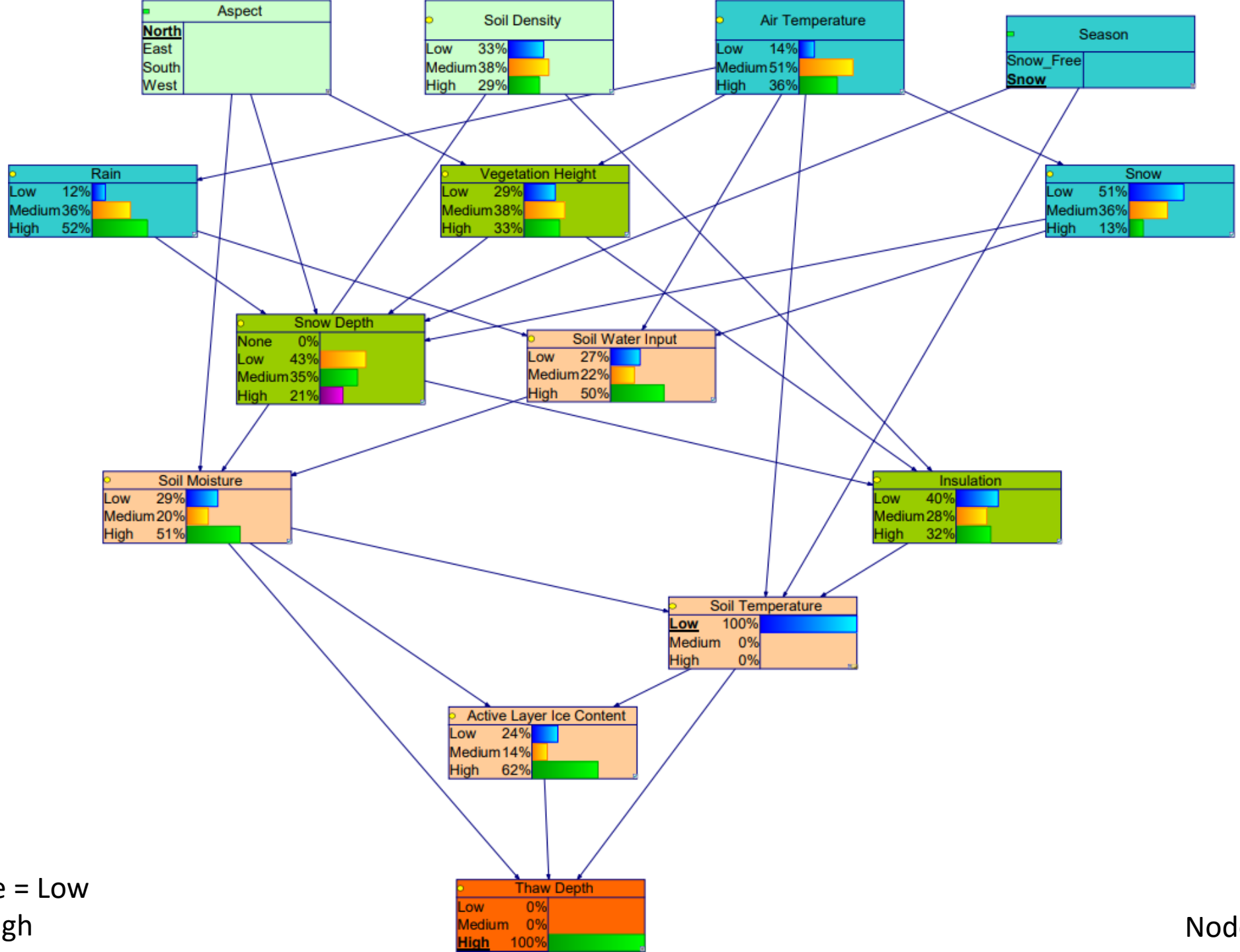
Aspect = North
Season = Snow
Soil Temperature = Low
Thaw Depth = Low

Nodes Informed: All



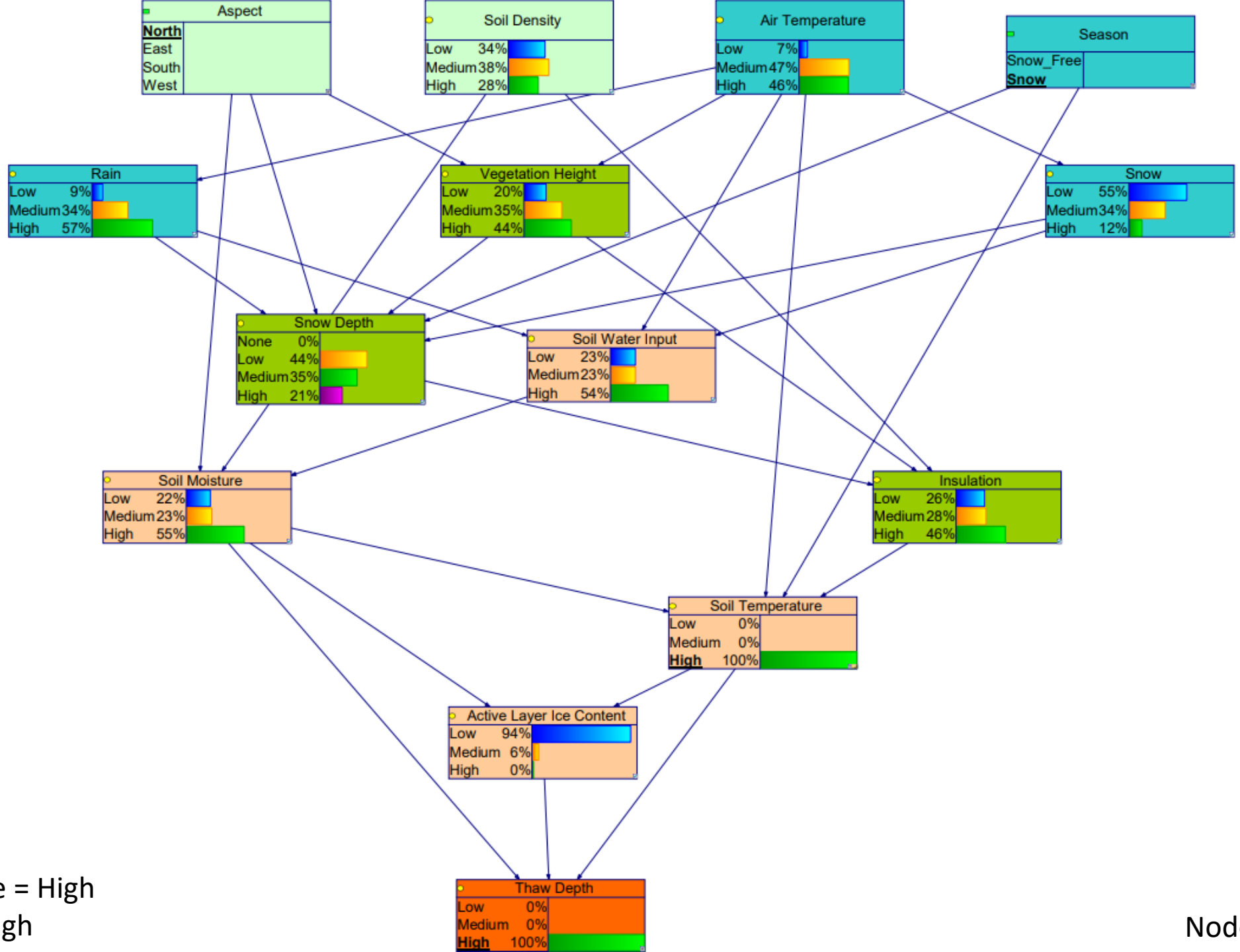
Aspect = North
Season = Snow
Soil Temperature = High
Thaw Depth = Low

Nodes Informed: All



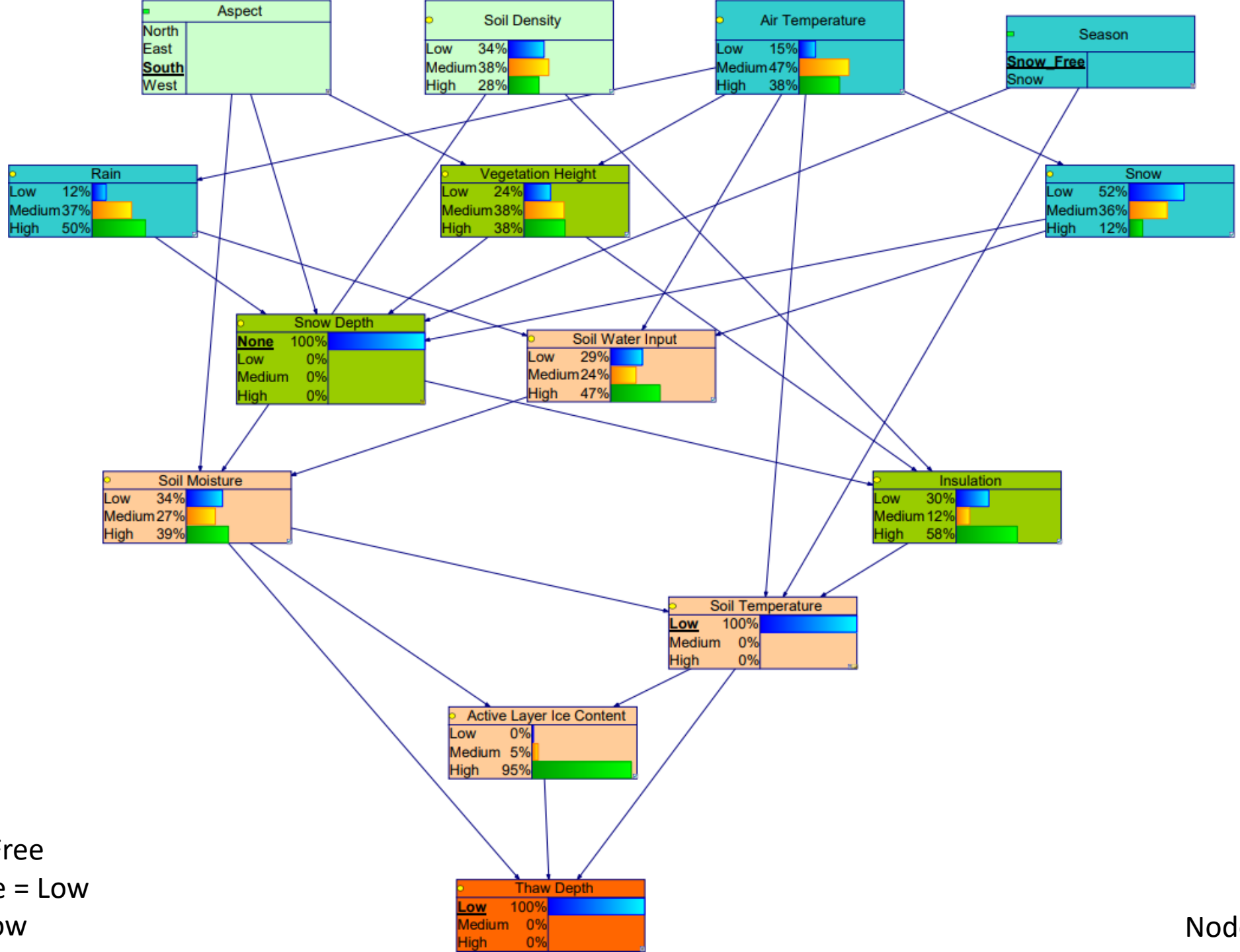
Aspect = North
Season = Snow
Soil Temperature = Low
Thaw Depth = High

Nodes Informed: All



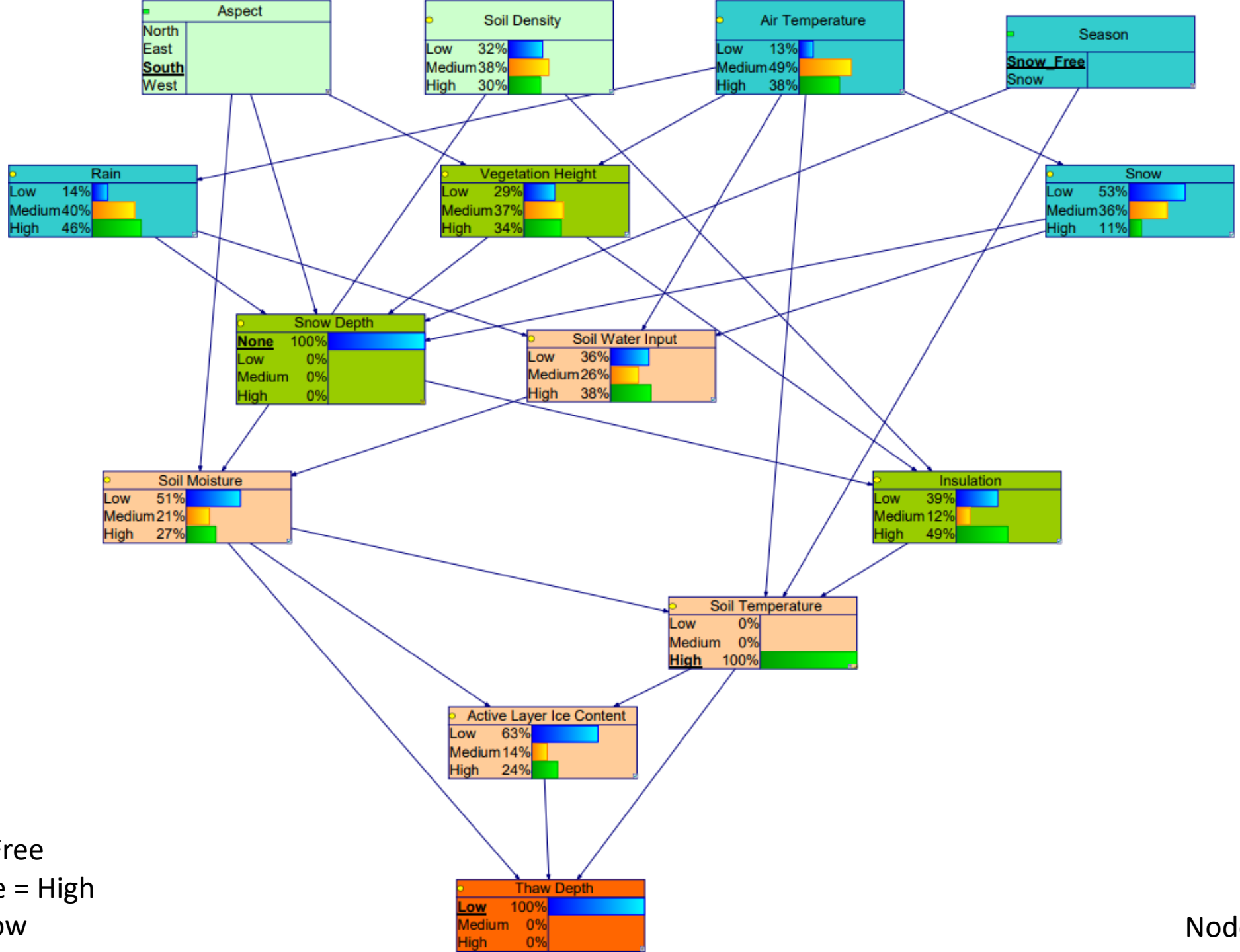
Aspect = North
Season = Snow
Soil Temperature = High
Thaw Depth = High

Nodes Informed: All



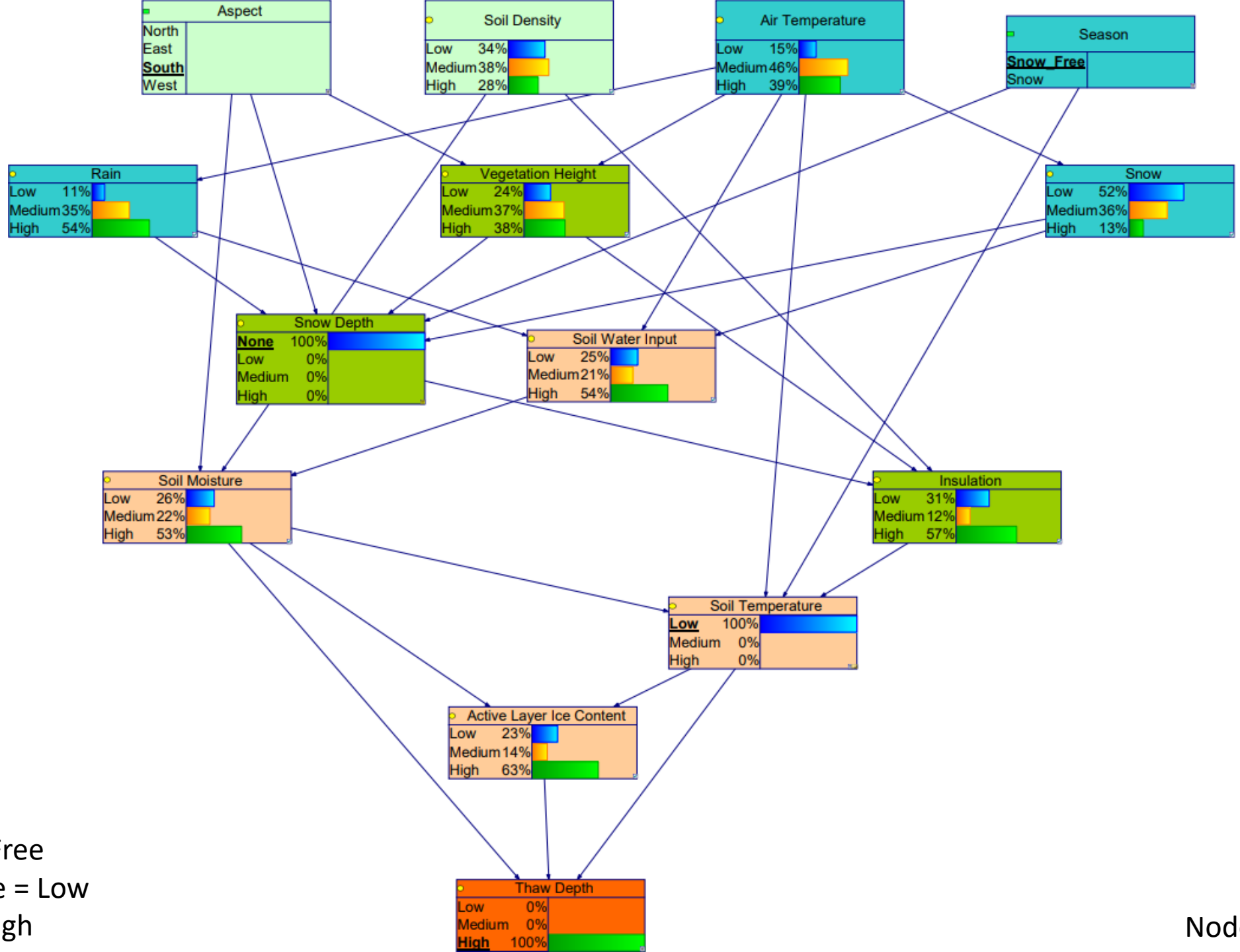
Aspect = South
Season = Snow Free
Soil Temperature = Low
Thaw Depth = Low

Nodes Informed: All



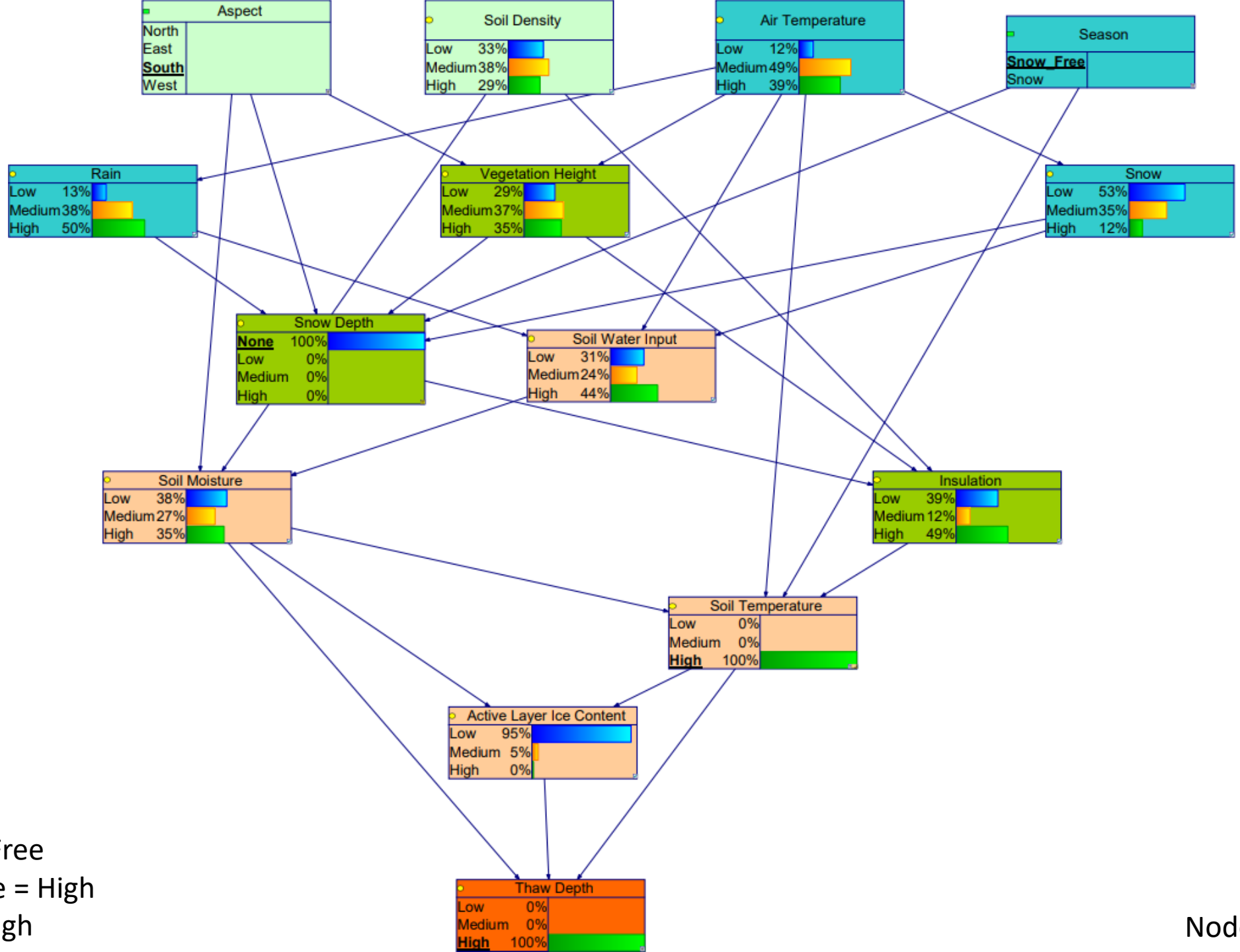
Aspect = South
Season = Snow Free
Soil Temperature = High
Thaw Depth = Low

Nodes Informed: All



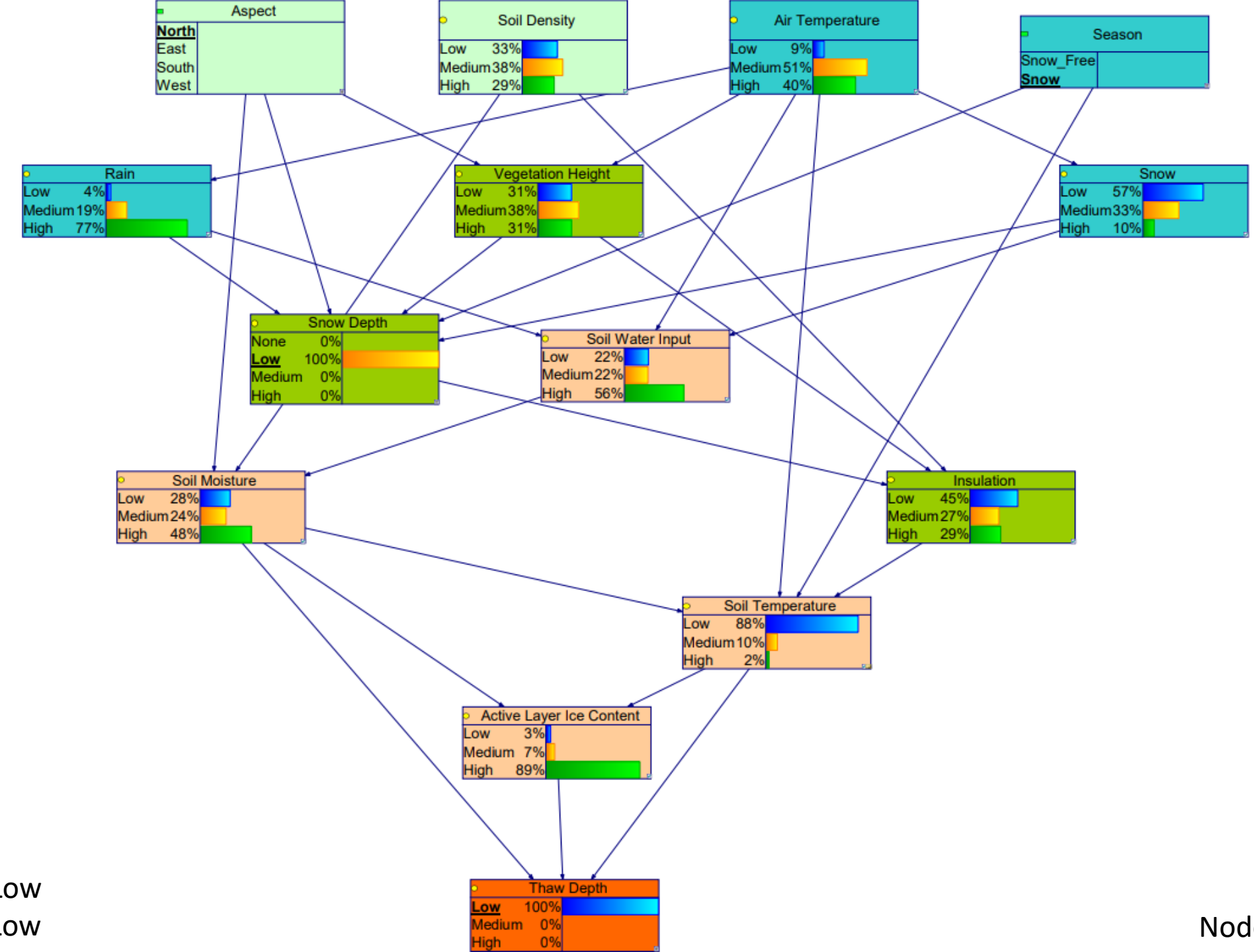
Aspect = South
Season = Snow Free
Soil Temperature = Low
Thaw Depth = High

Nodes Informed: All



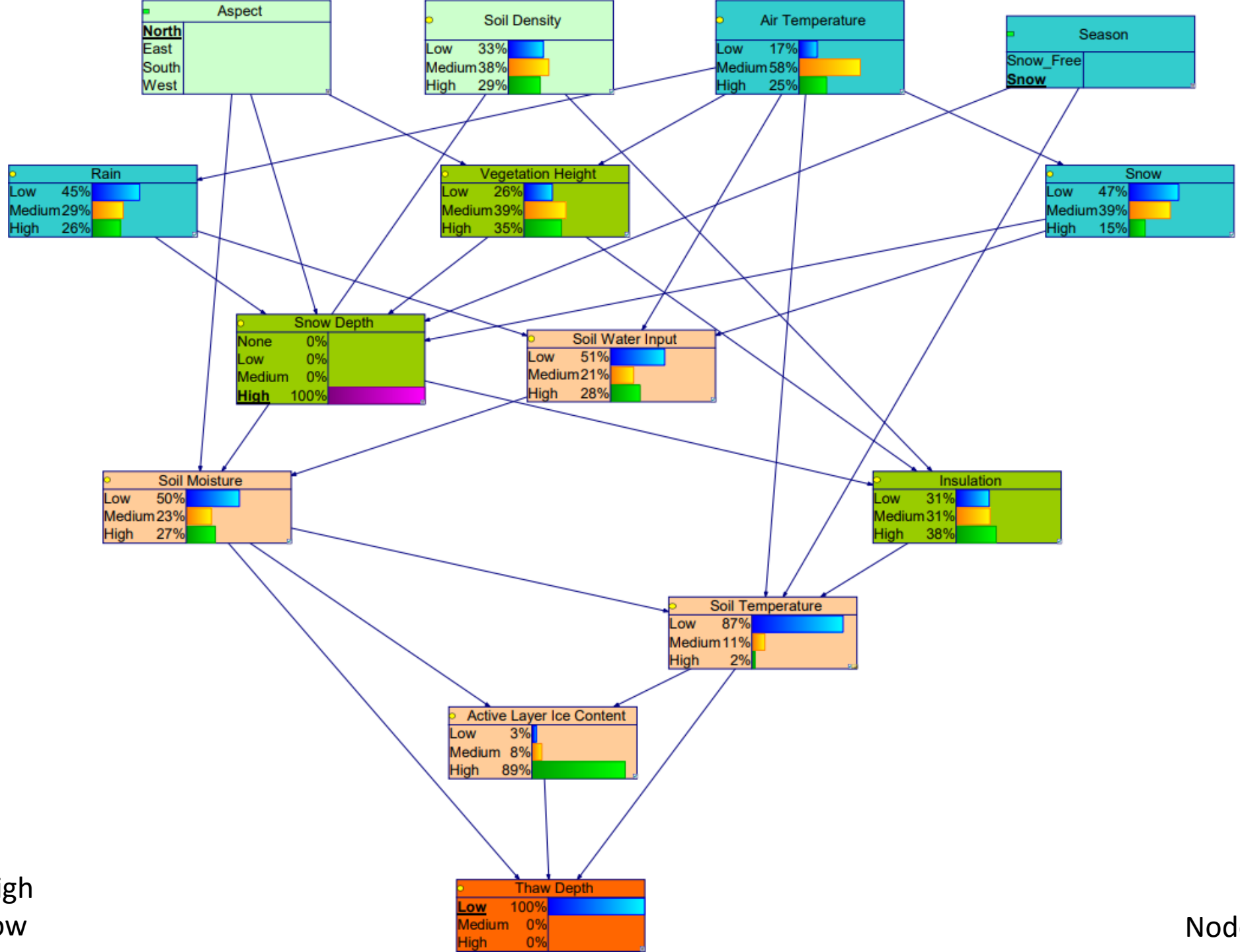
Aspect = South
Season = Snow Free
Soil Temperature = High
Thaw Depth = High

Nodes Informed: All



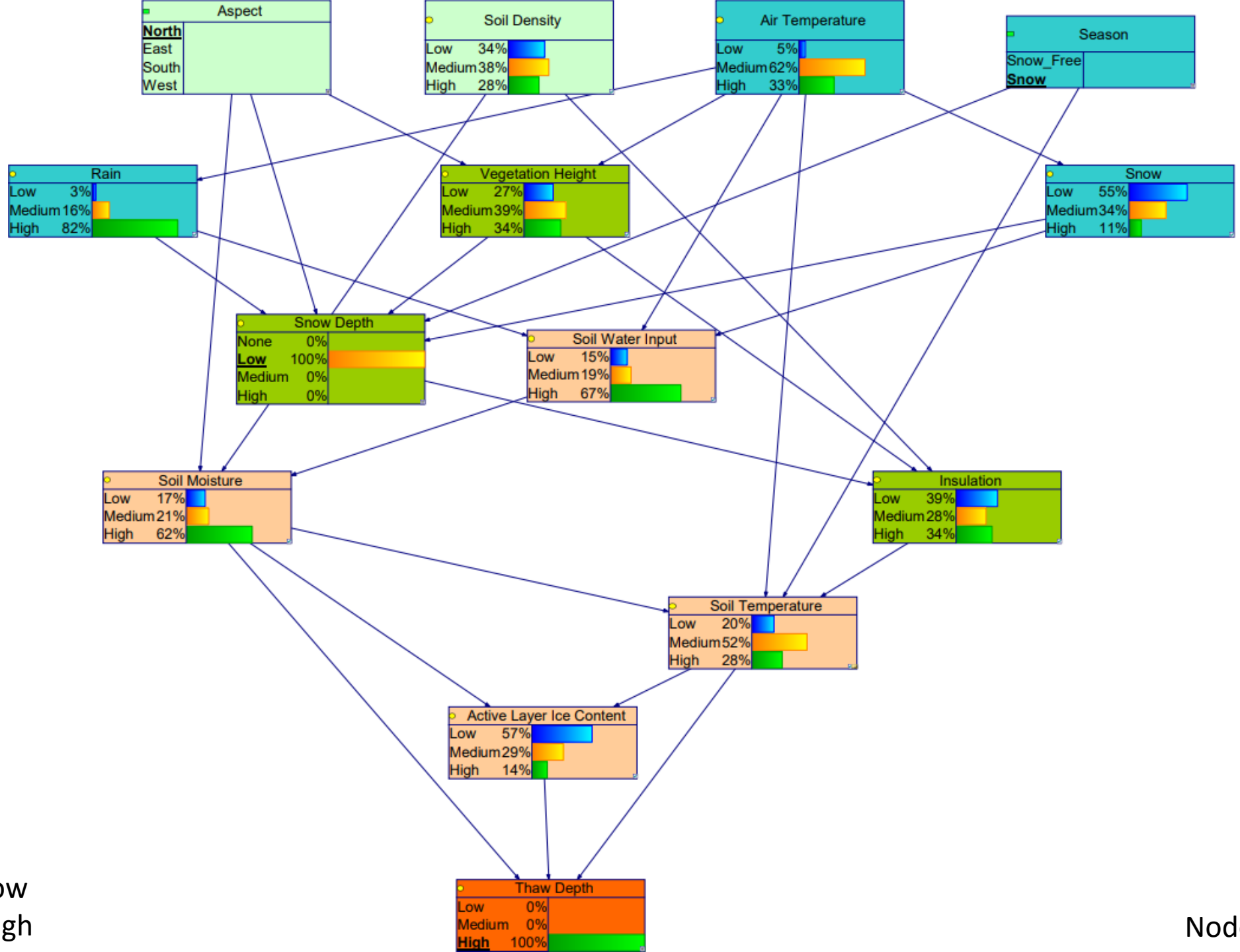
Aspect = North
Season = Snow
Snow Depth = Low
Thaw Depth = Low

Nodes Informed: All



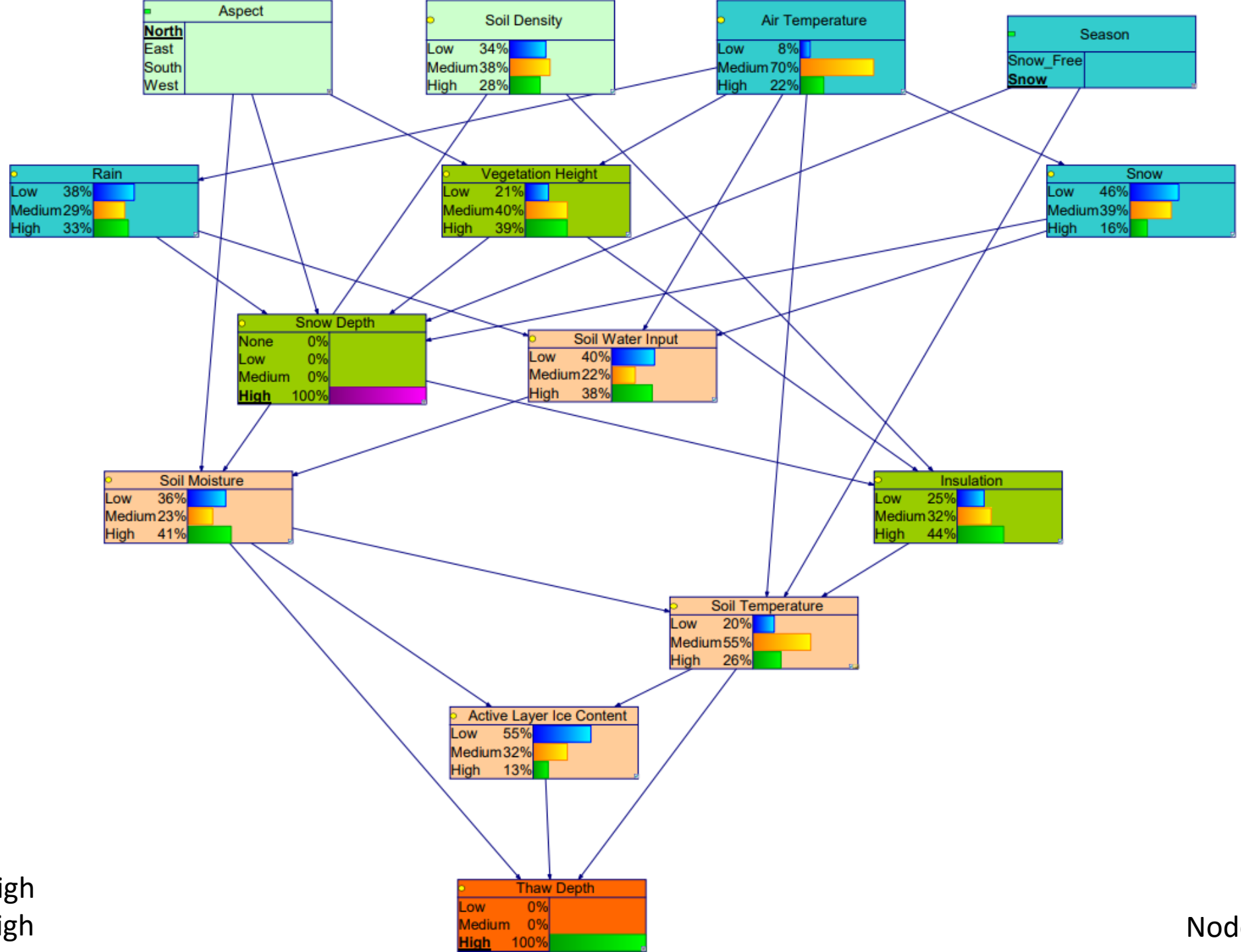
Aspect = North
Season = Snow
Snow Depth = High
Thaw Depth = Low

Nodes Informed: All



Aspect = North
Season = Snow
Snow Depth = Low
Thaw Depth = High

Nodes Informed: All

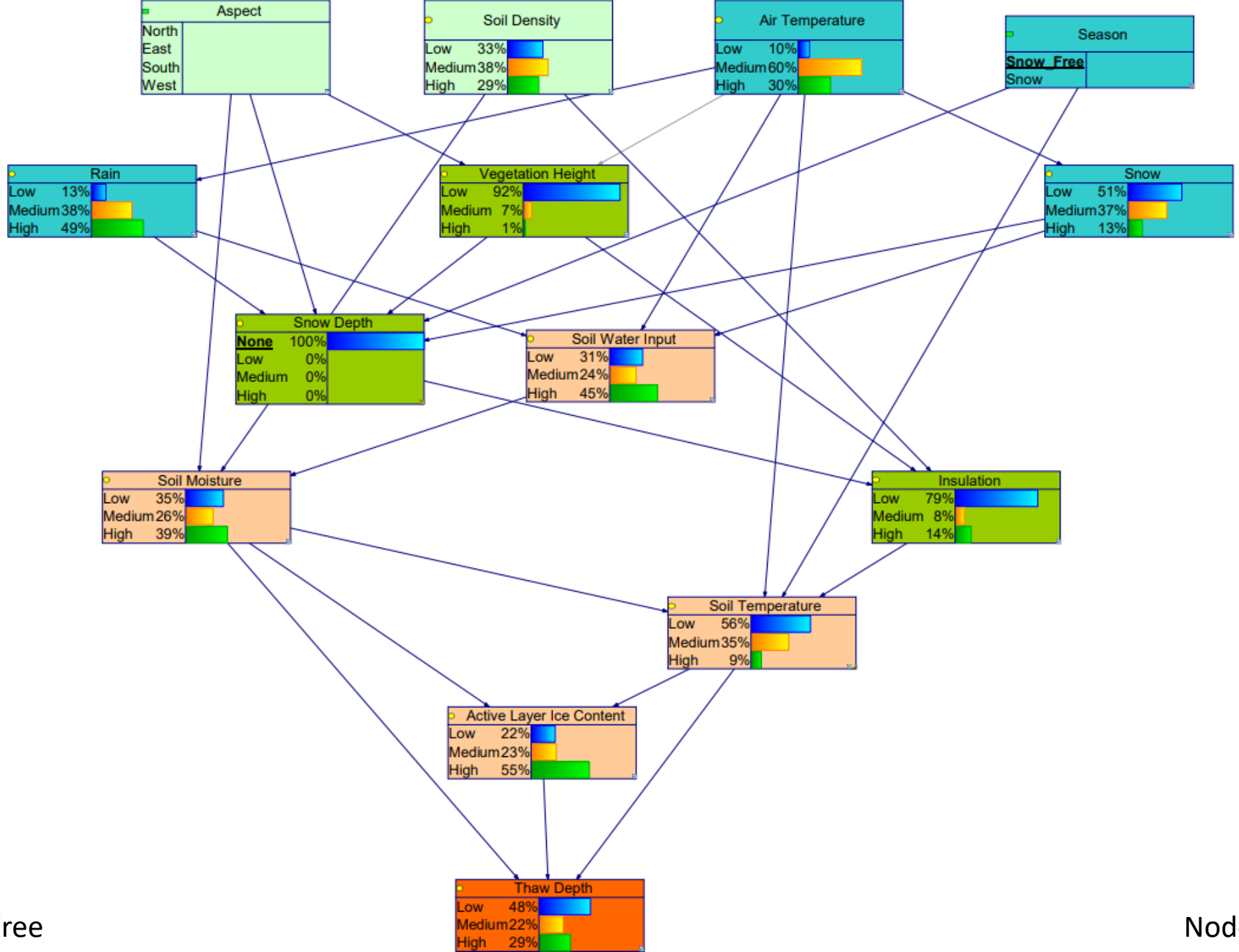


Aspect = North
Season = Snow
Snow Depth = High
Thaw Depth = High

Nodes Informed: All

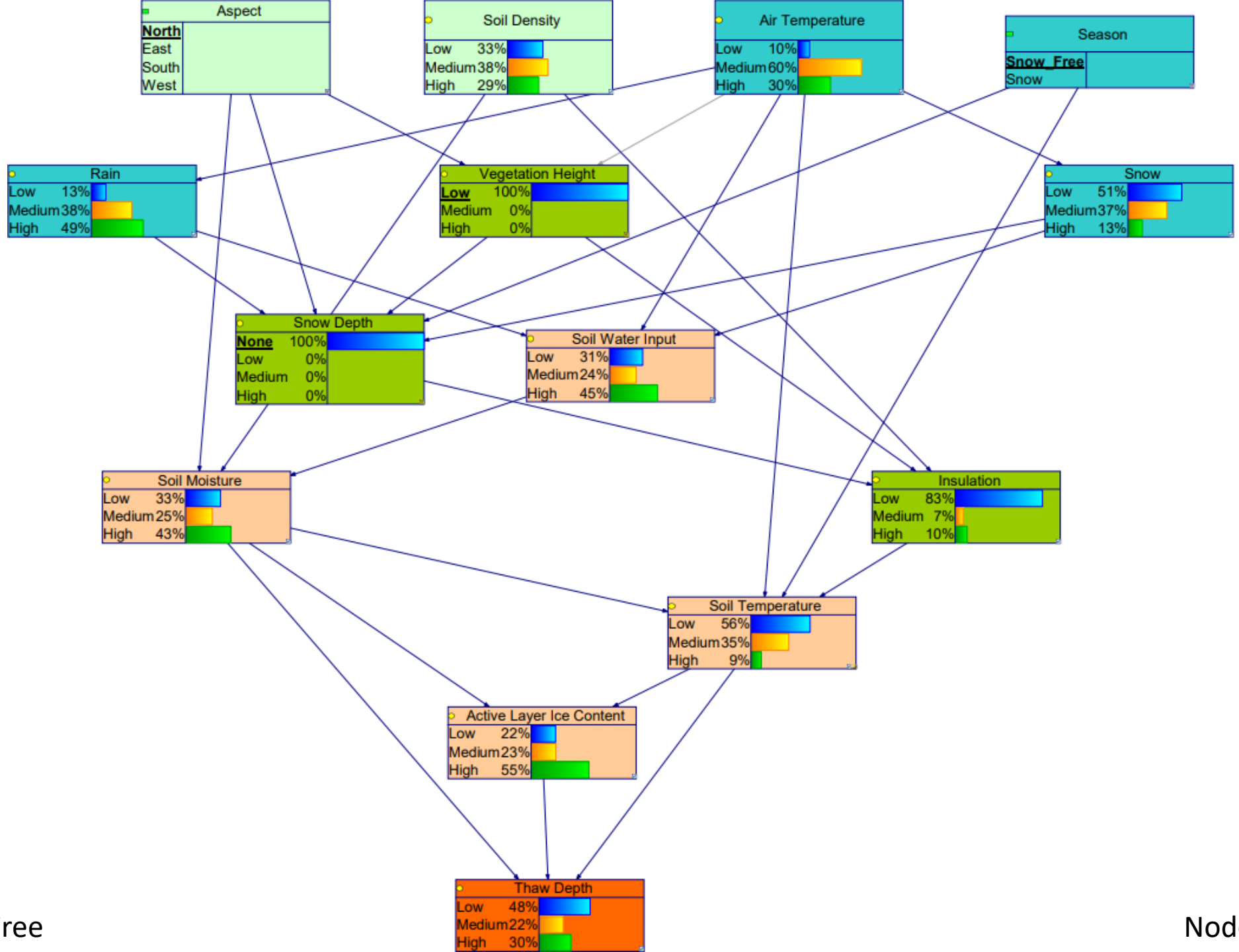
Evaluation

Prognosis



Season = Snow Free

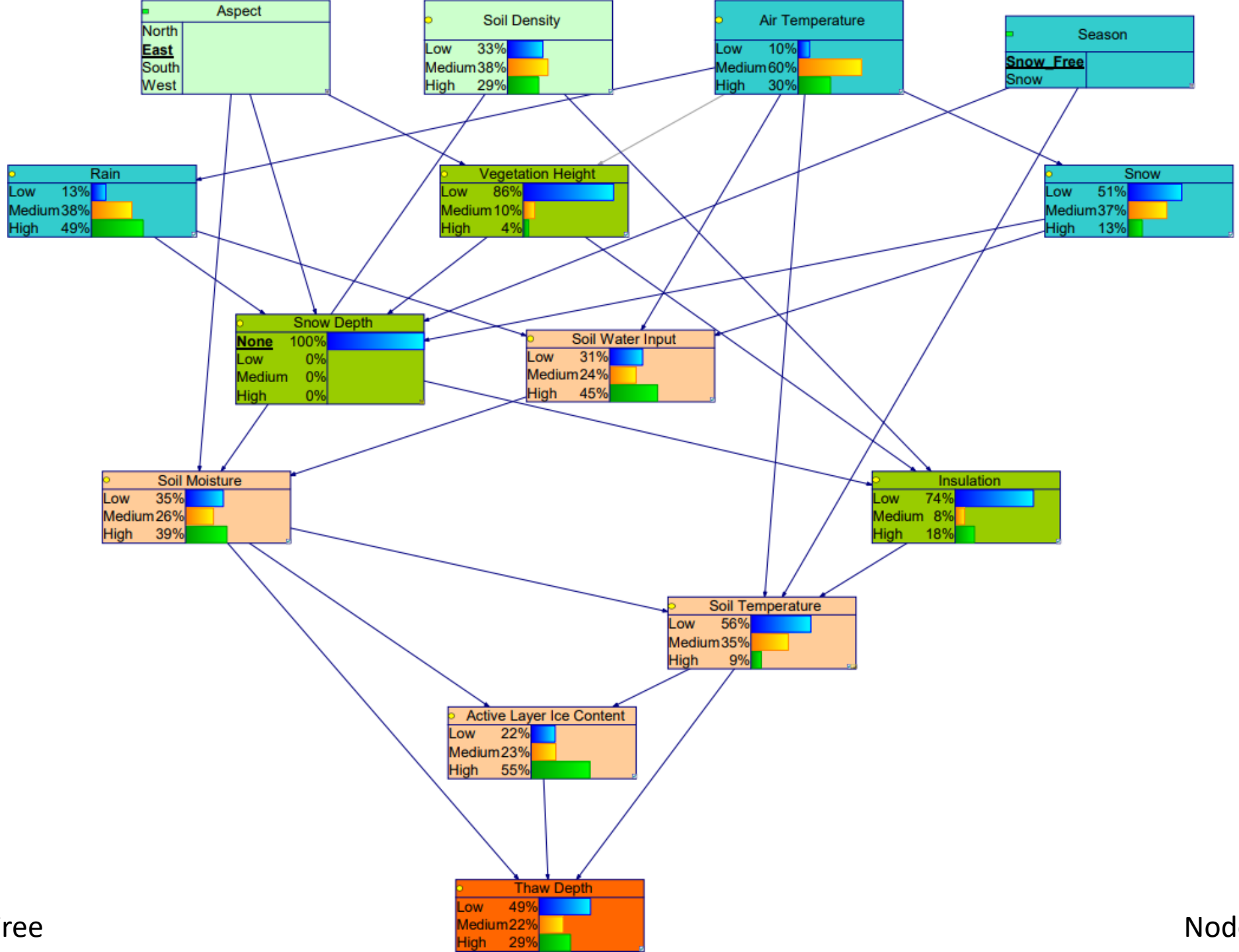
Nodes Informed: All



Aspect = North

Season = Snow Free

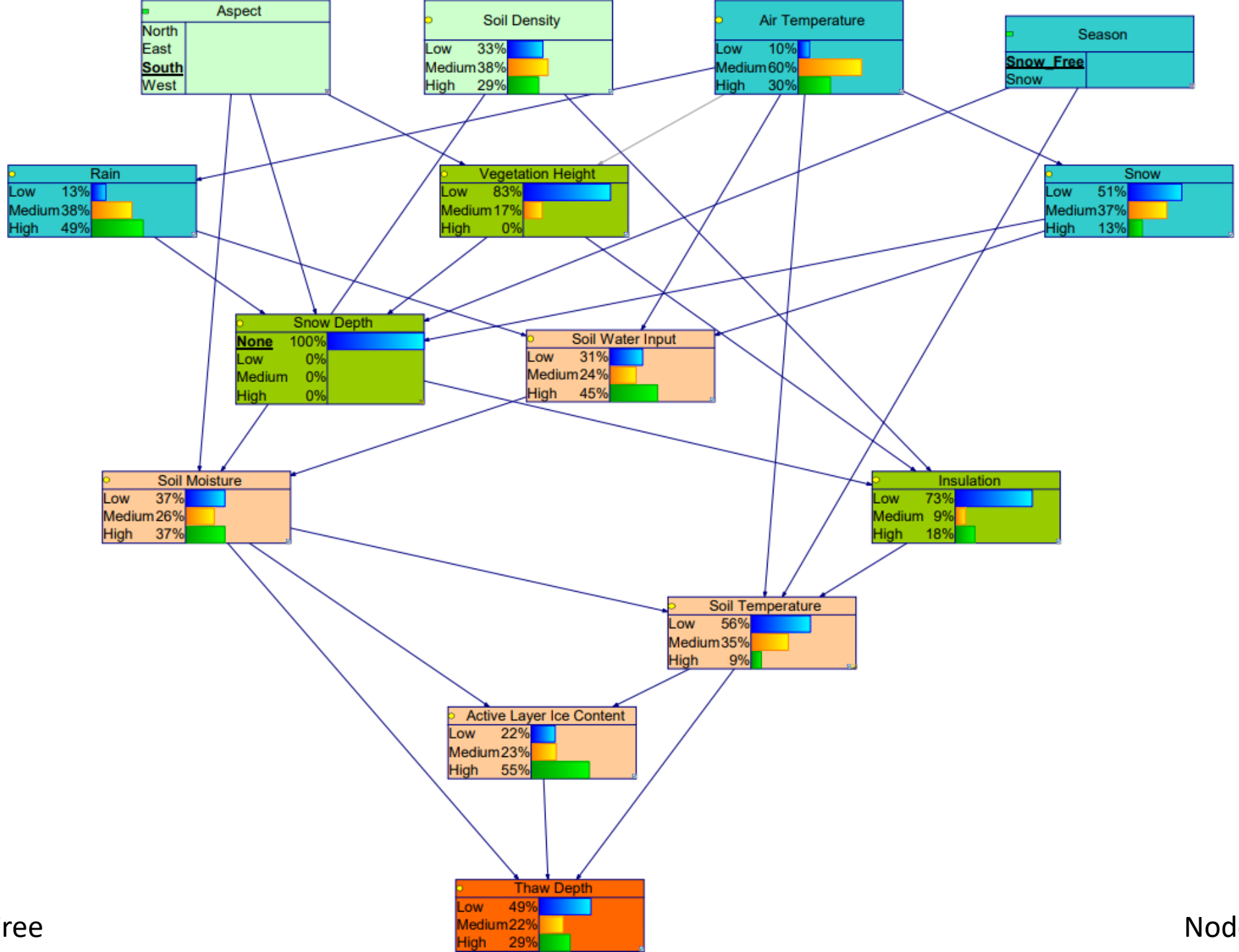
Nodes Informed: All



Aspect = East

Season = Snow Free

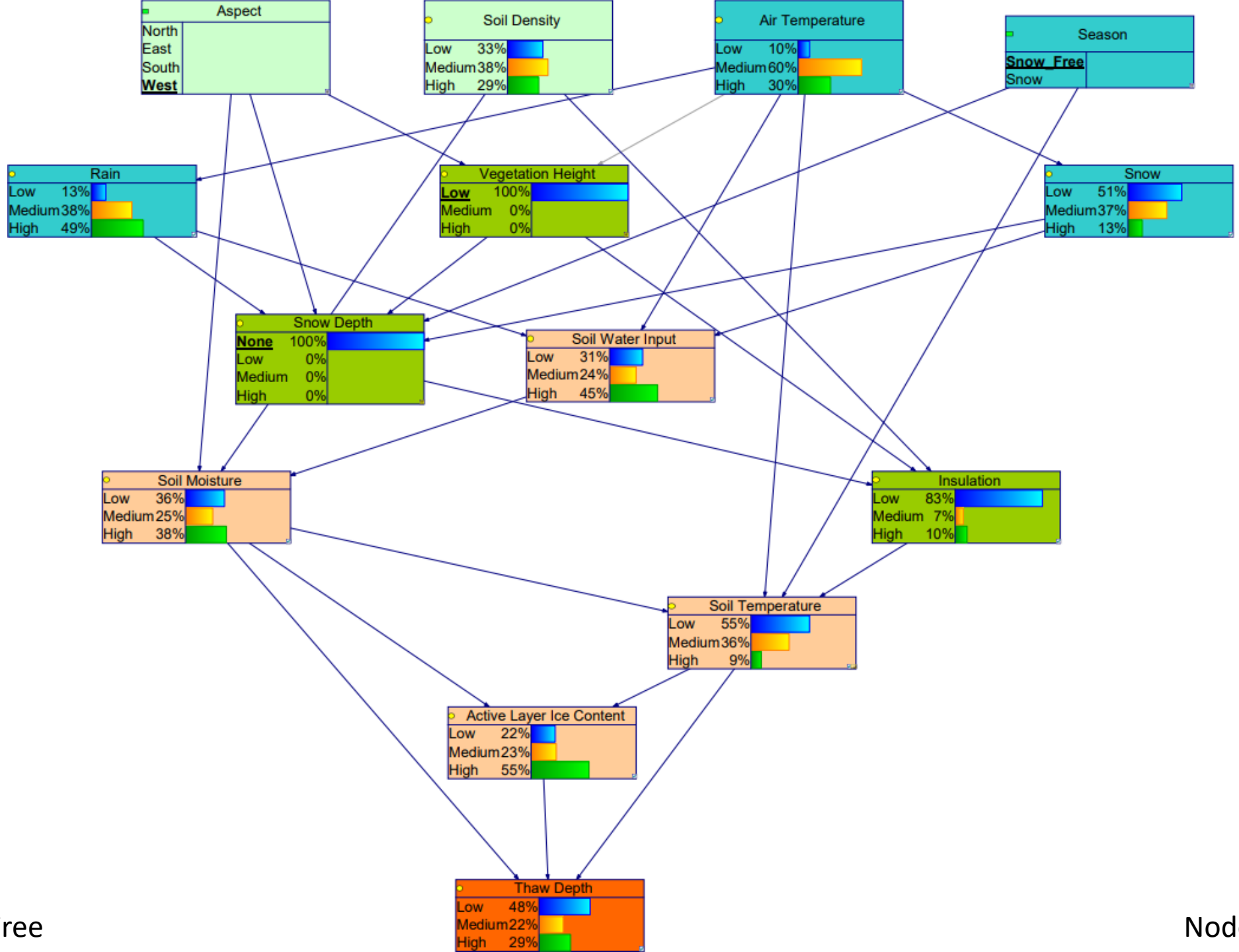
Nodes Informed: All



Aspect = South

Season = Snow Free

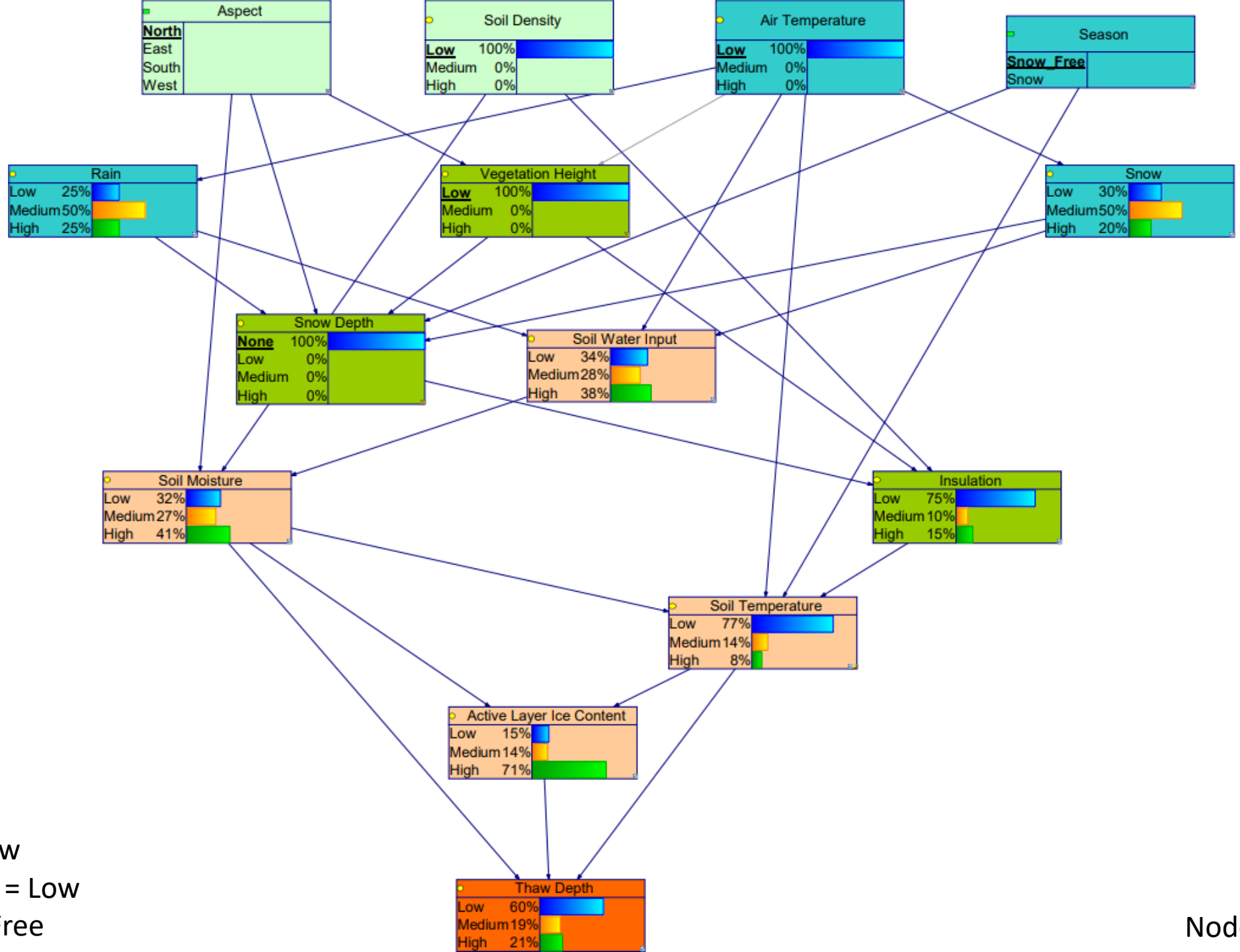
Nodes Informed: All



Aspect = West

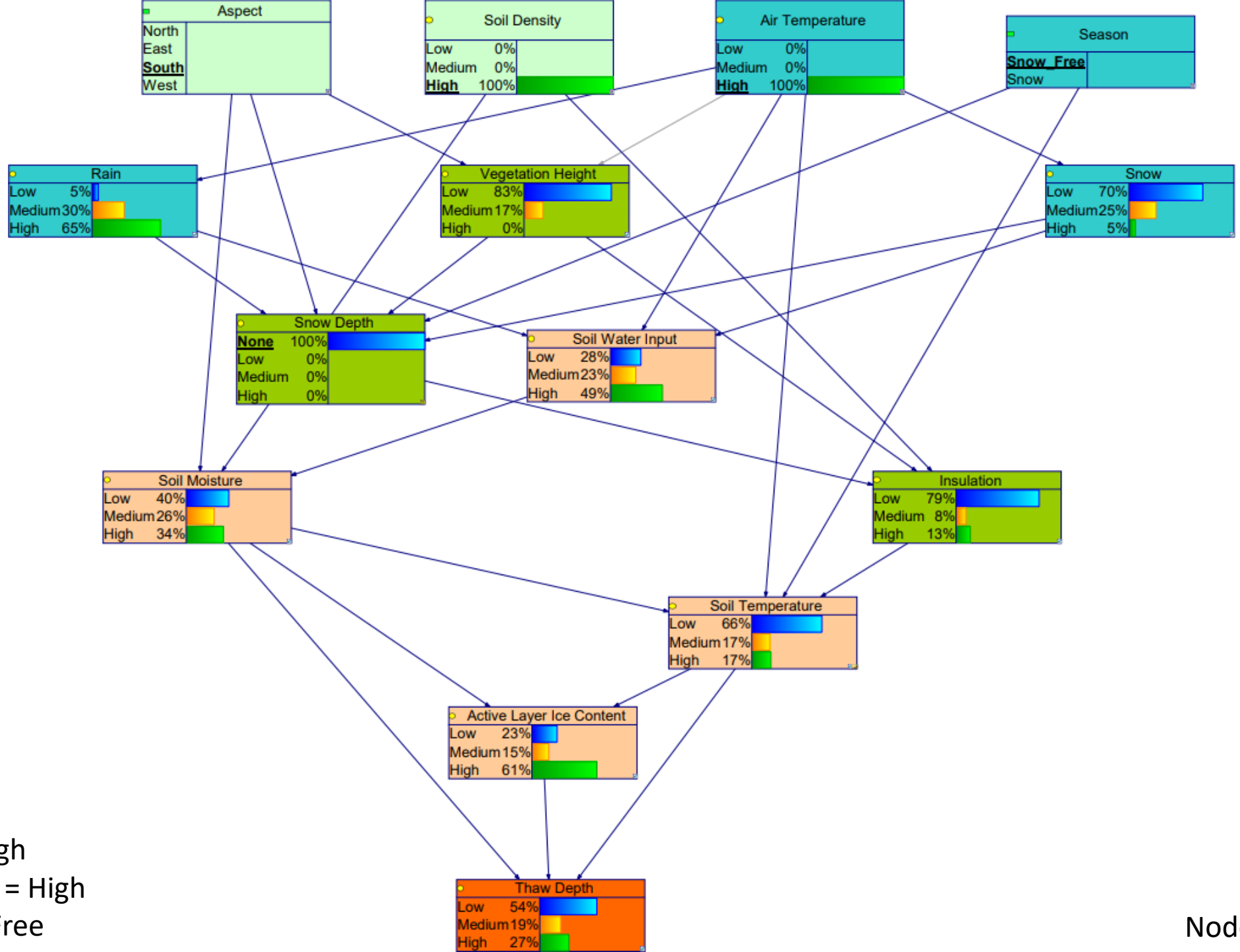
Season = Snow Free

Nodes Informed: All



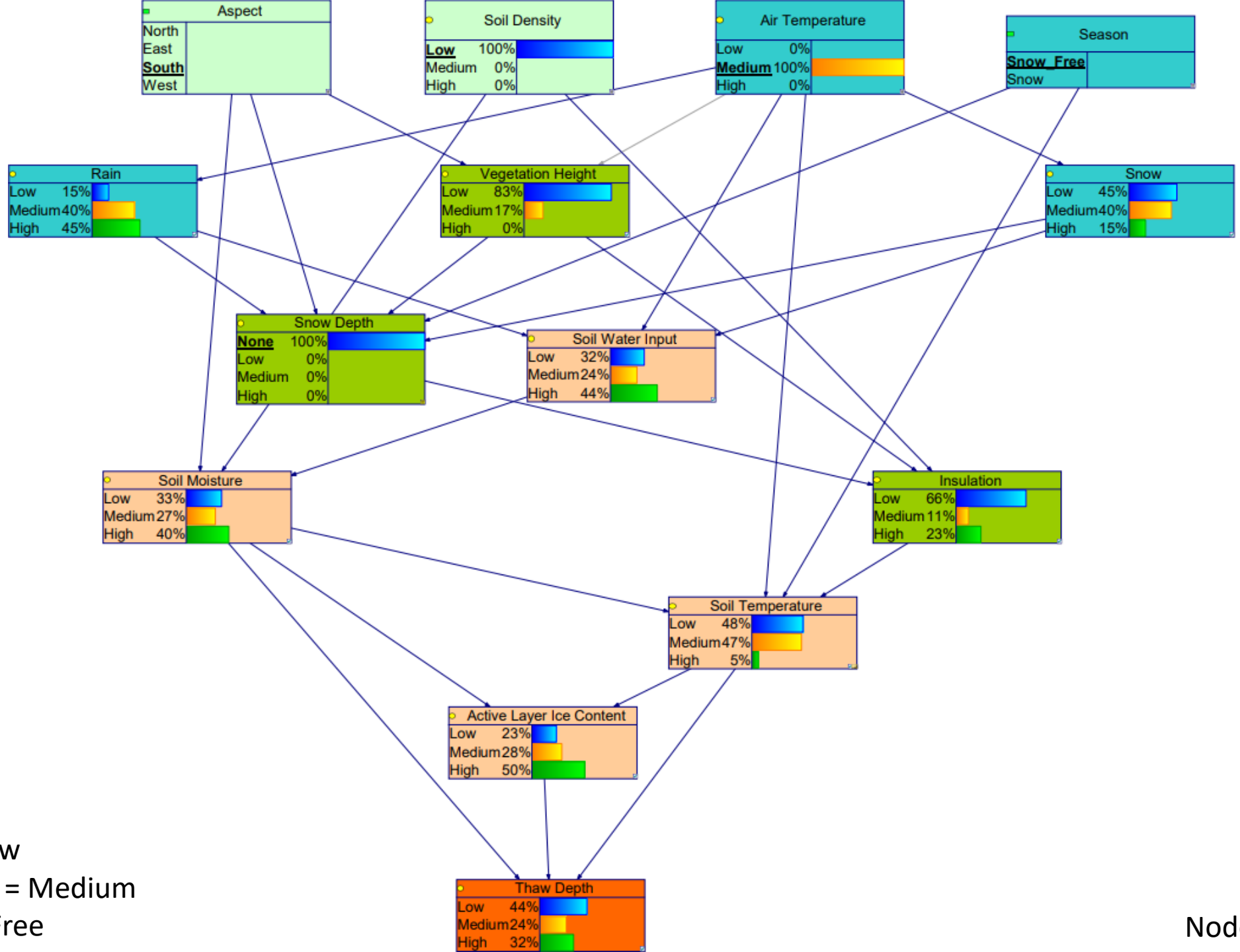
Aspect = North
Soil Density = Low
Air Temperature = Low
Season = Snow Free

Nodes Informed: All



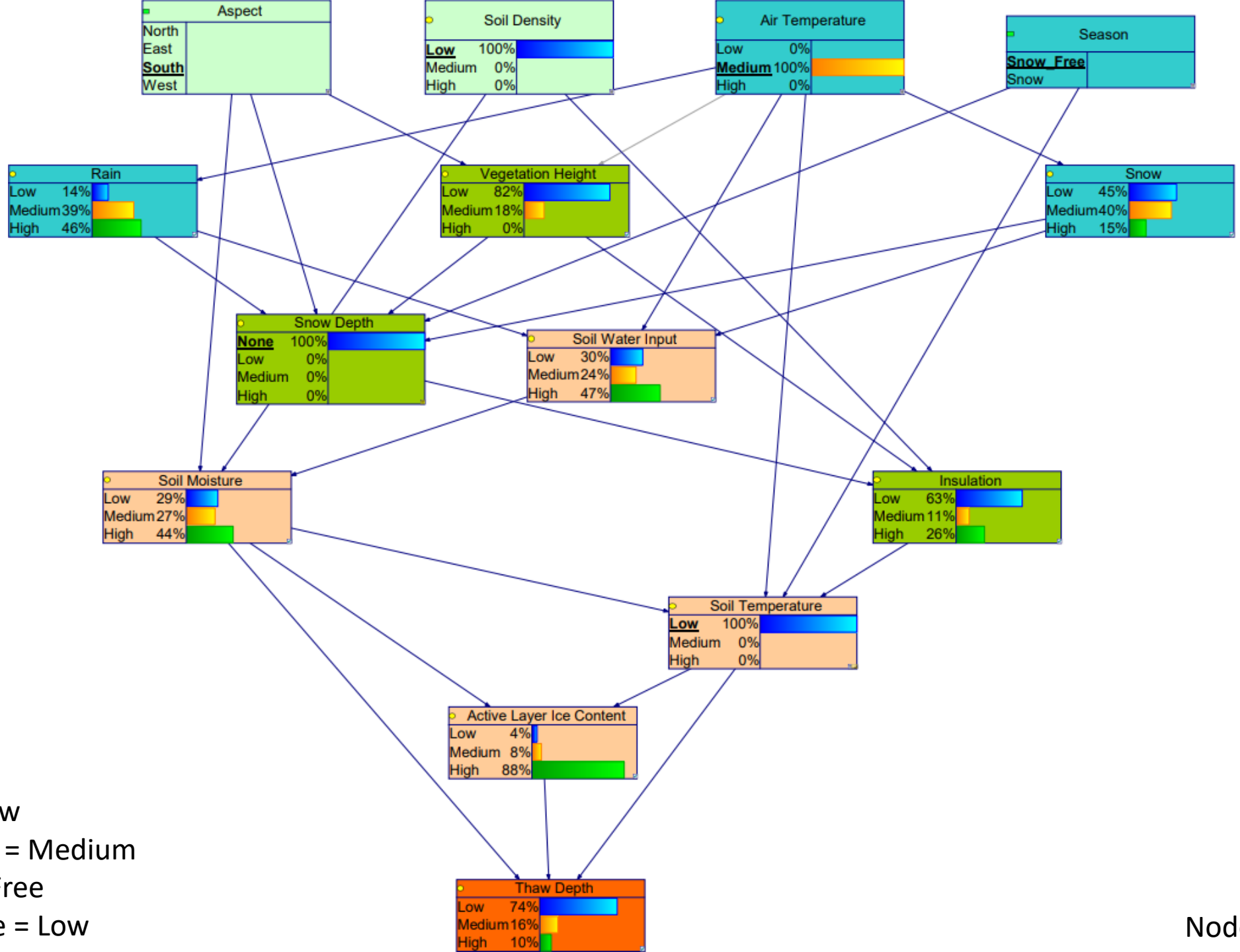
Aspect = South
Soil Density = High
Air Temperature = High
Season = Snow Free

Nodes Informed: All



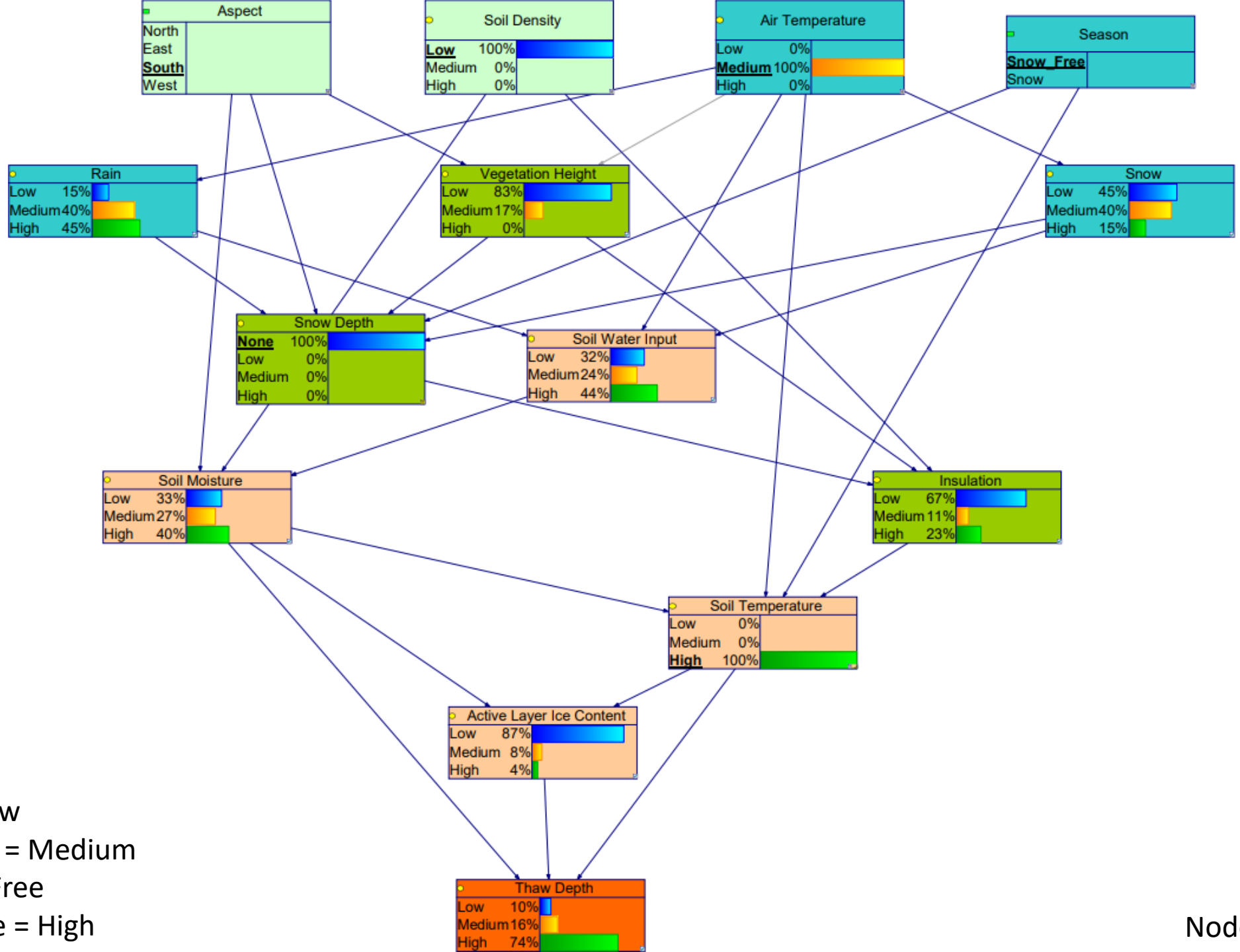
Aspect = South
Soil Density = Low
Air Temperature = Medium
Season = Snow Free

Nodes Informed: All



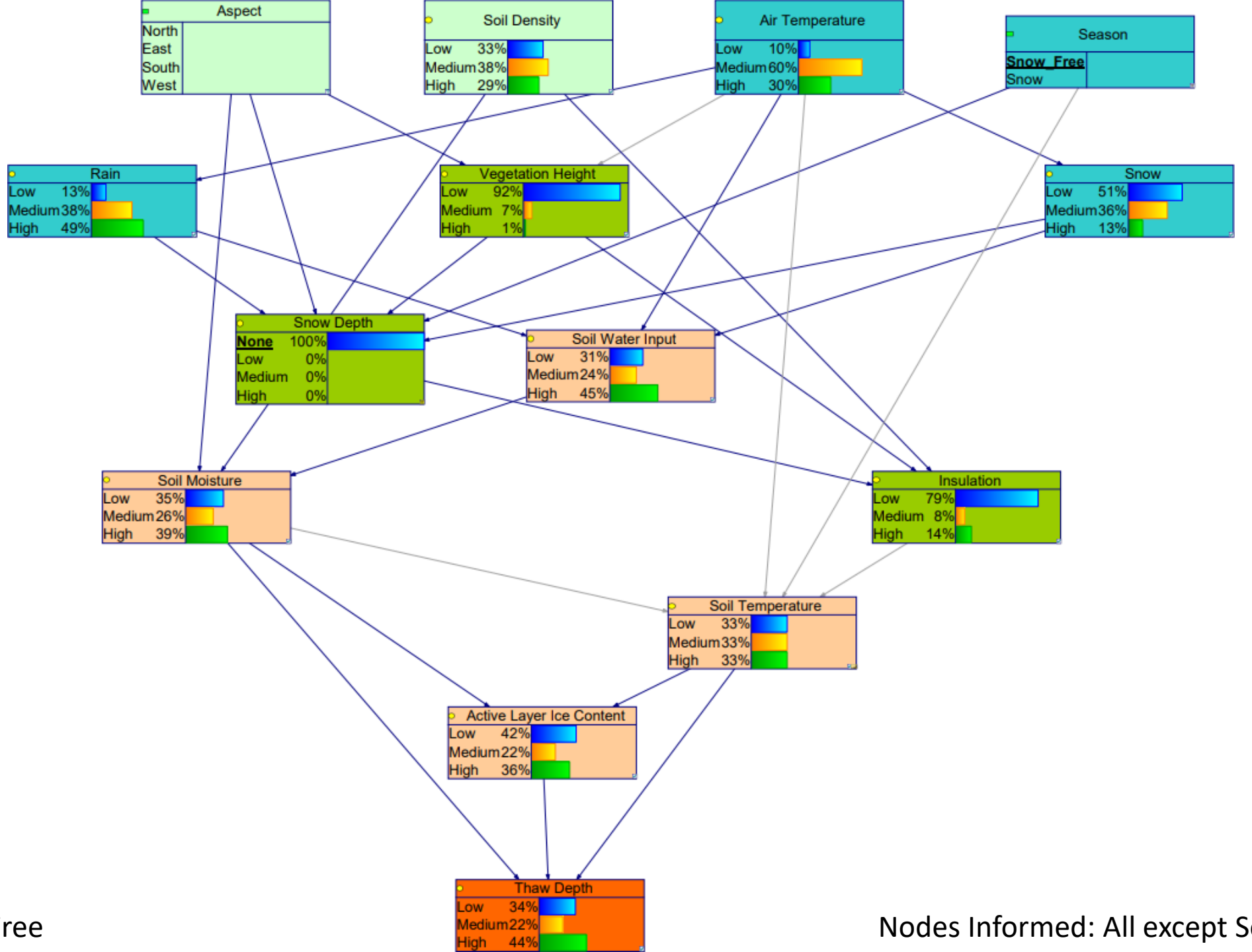
Aspect = South
Soil Density = Low
Air Temperature = Medium
Season = Snow Free
Soil Temperature = Low

Nodes Informed: All



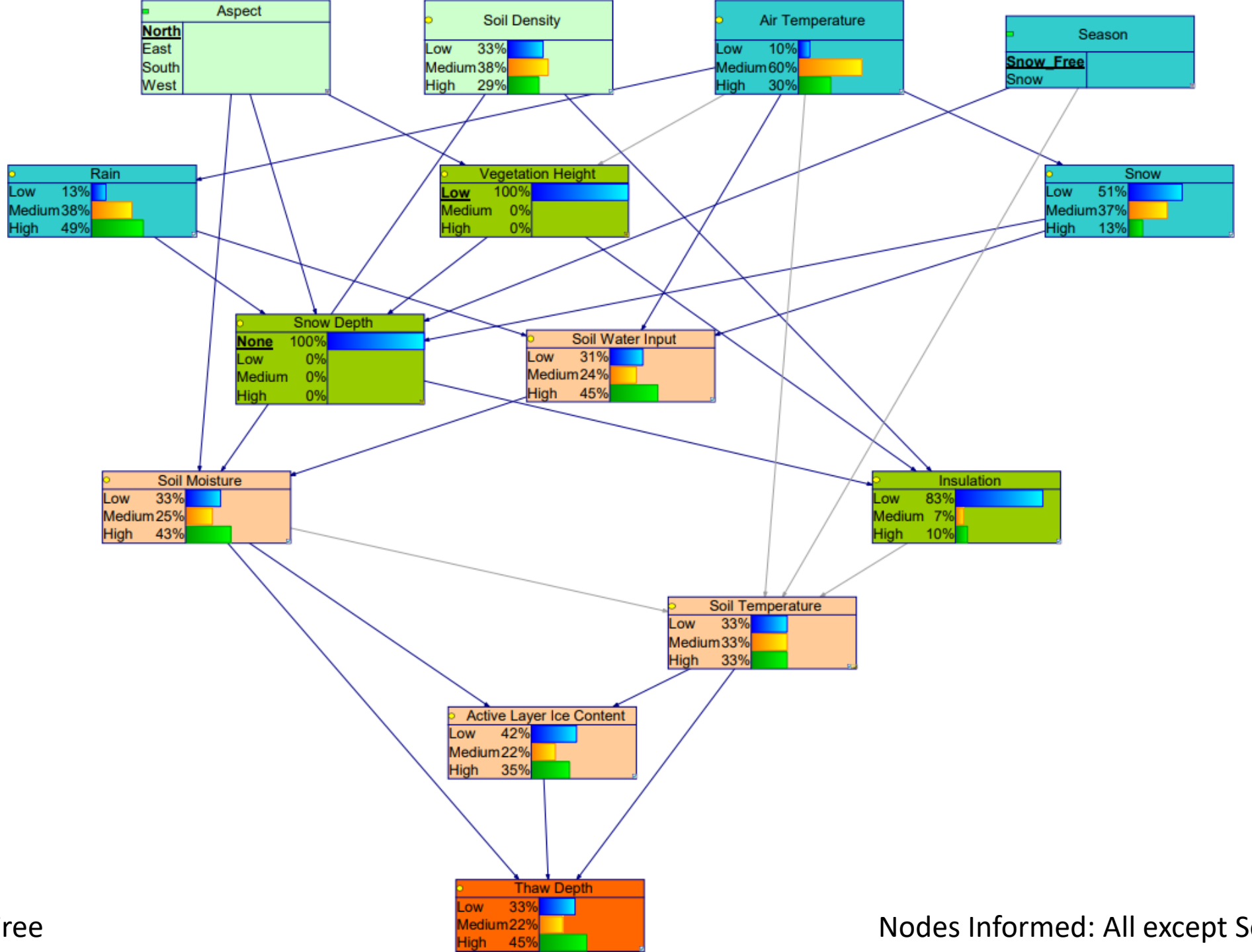
Aspect = South
Soil Density = Low
Air Temperature = Medium
Season = Snow Free
Soil Temperature = High

Nodes Informed: All



Season = Snow Free

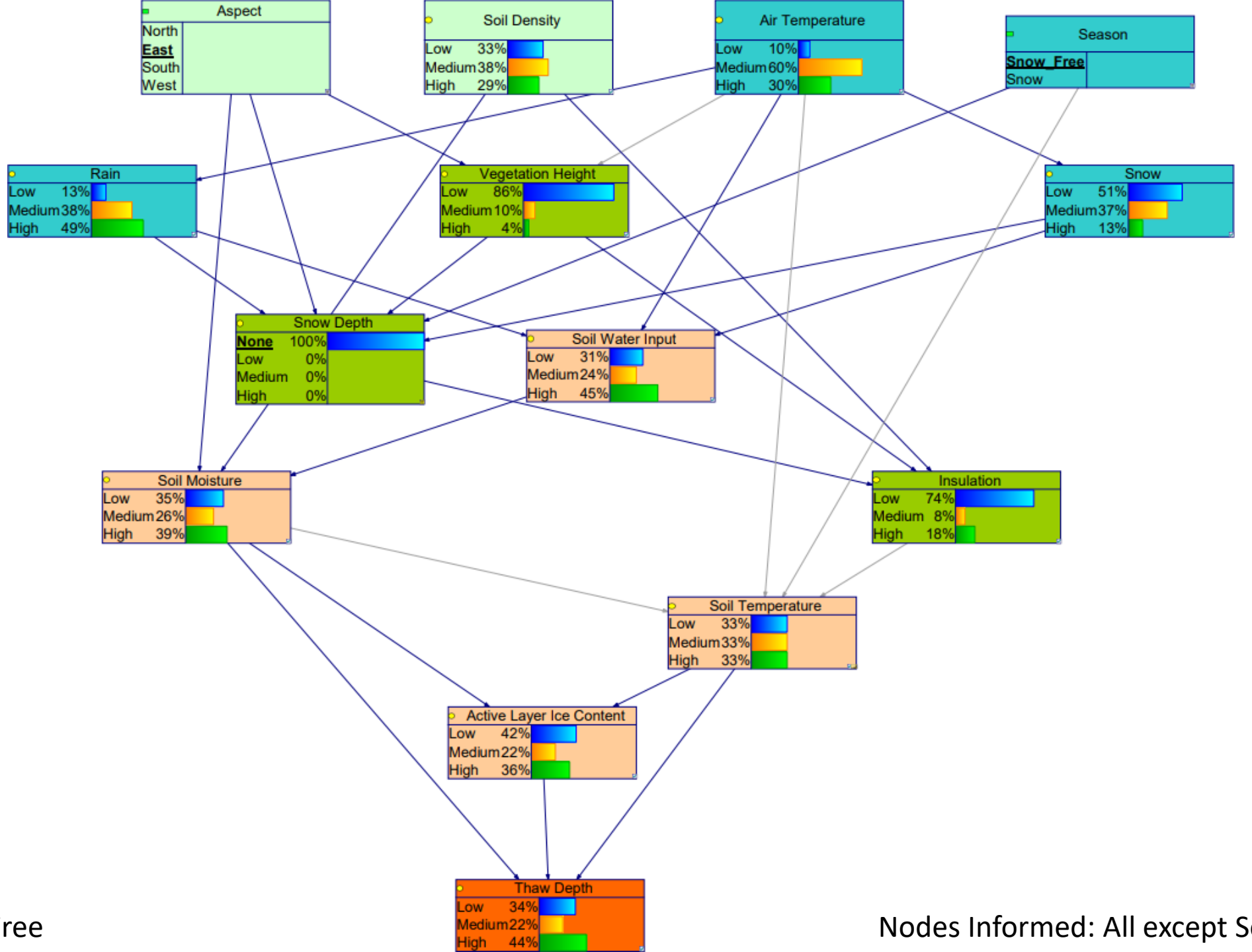
Nodes Informed: All except Soil Temperature



Aspect = North

Season = Snow Free

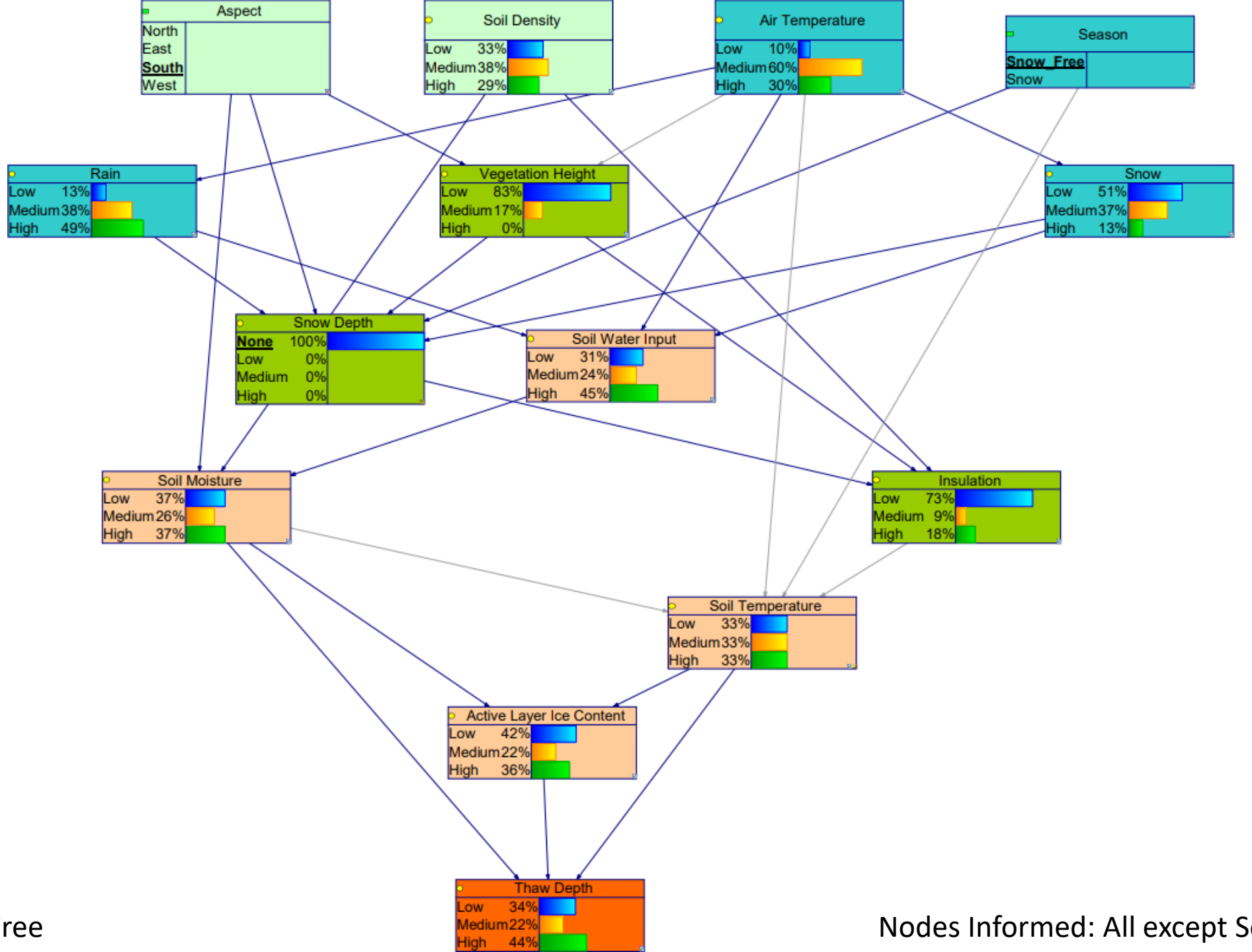
Nodes Informed: All except Soil Temperature



Aspect = East

Season = Snow Free

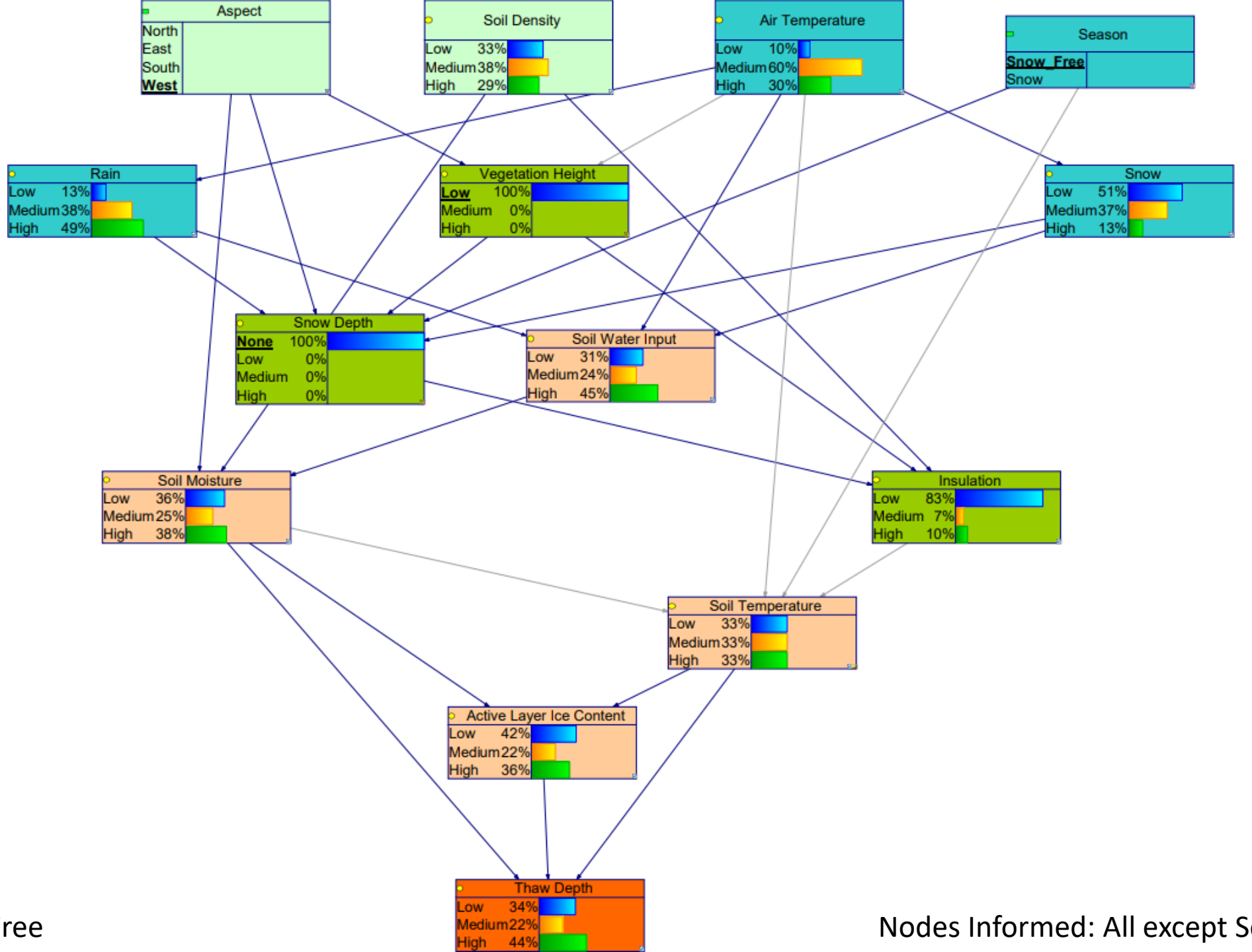
Nodes Informed: All except Soil Temperature



Aspect = South

Season = Snow Free

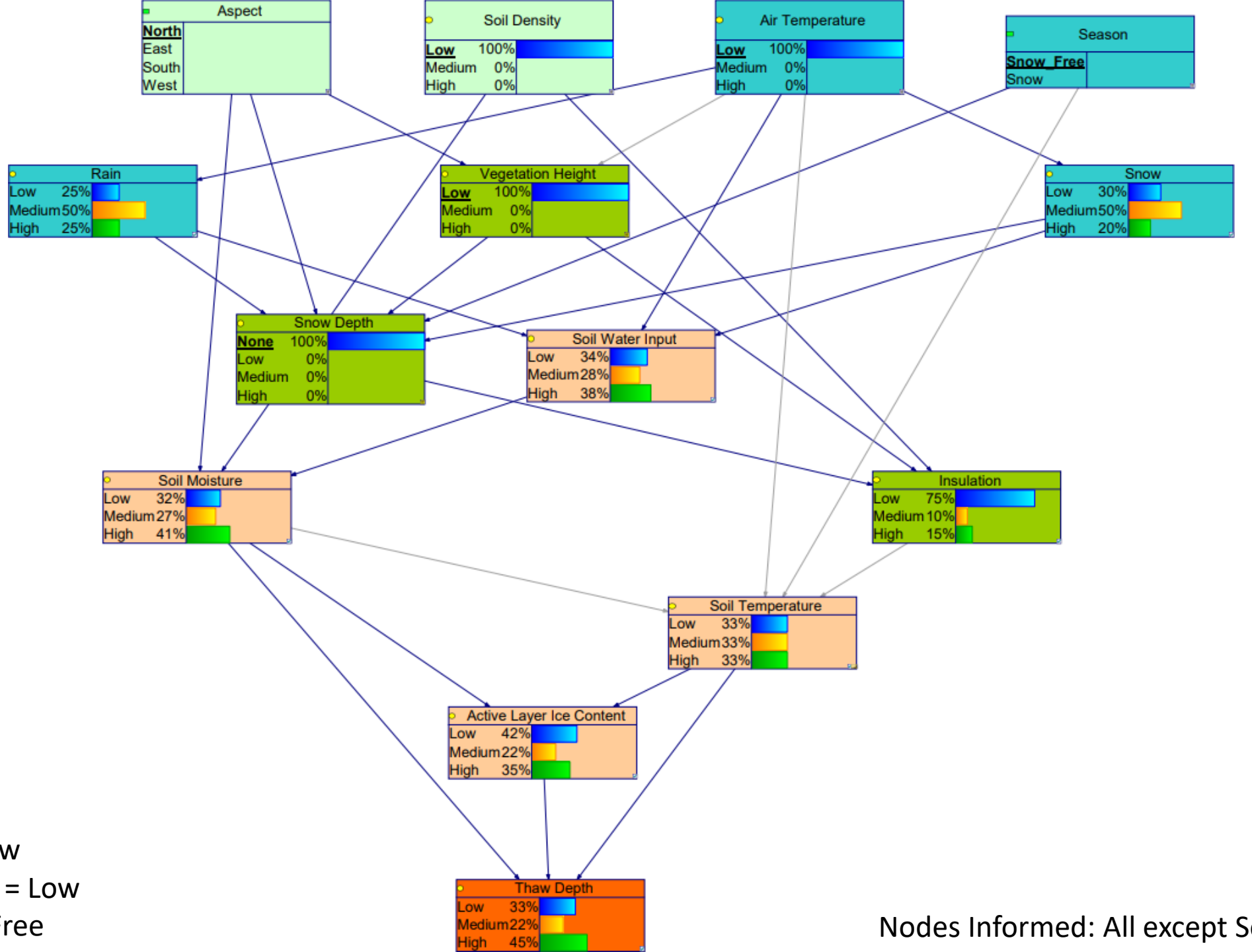
Nodes Informed: All except Soil Temperature



Aspect = West

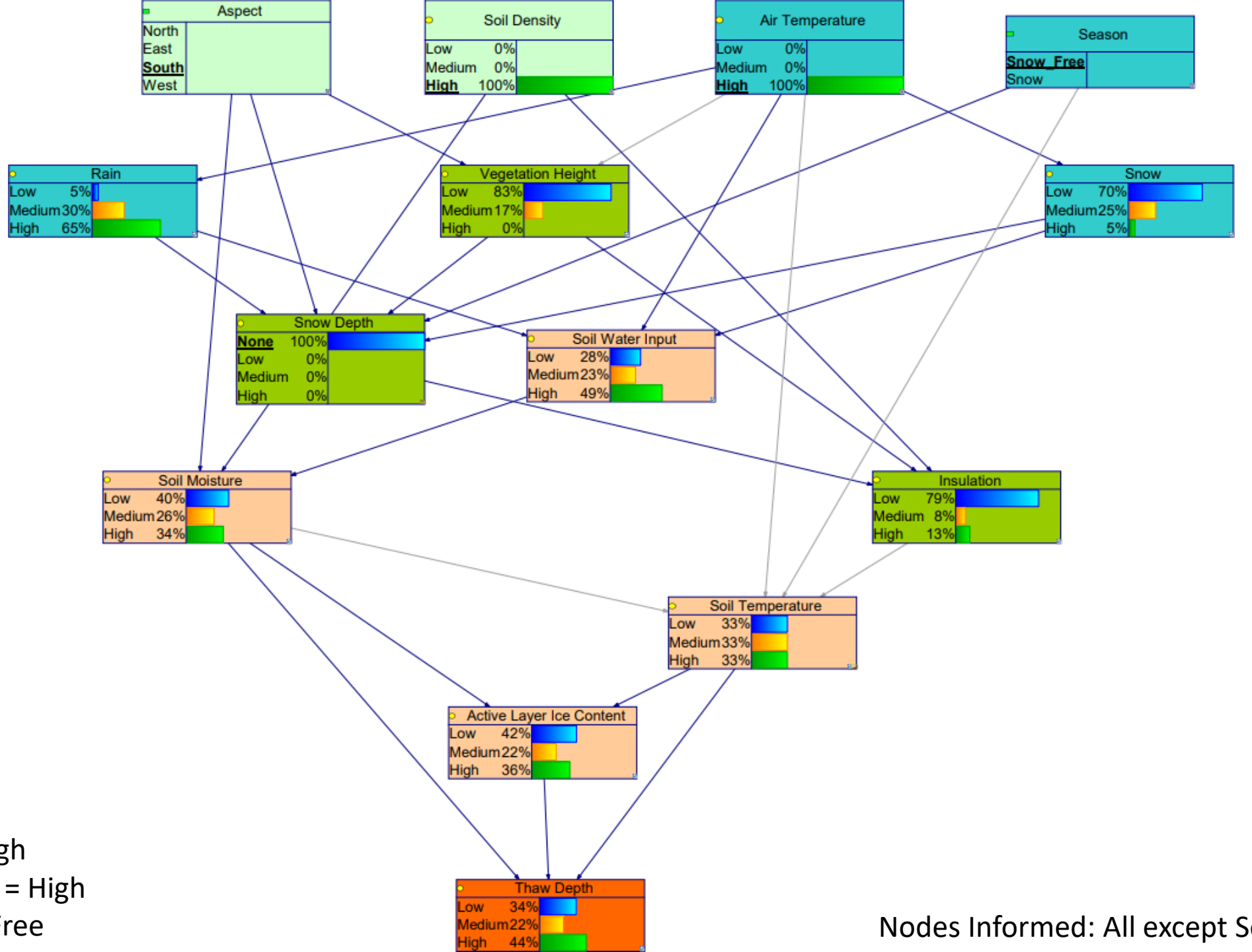
Season = Snow Free

Nodes Informed: All except Soil Temperature



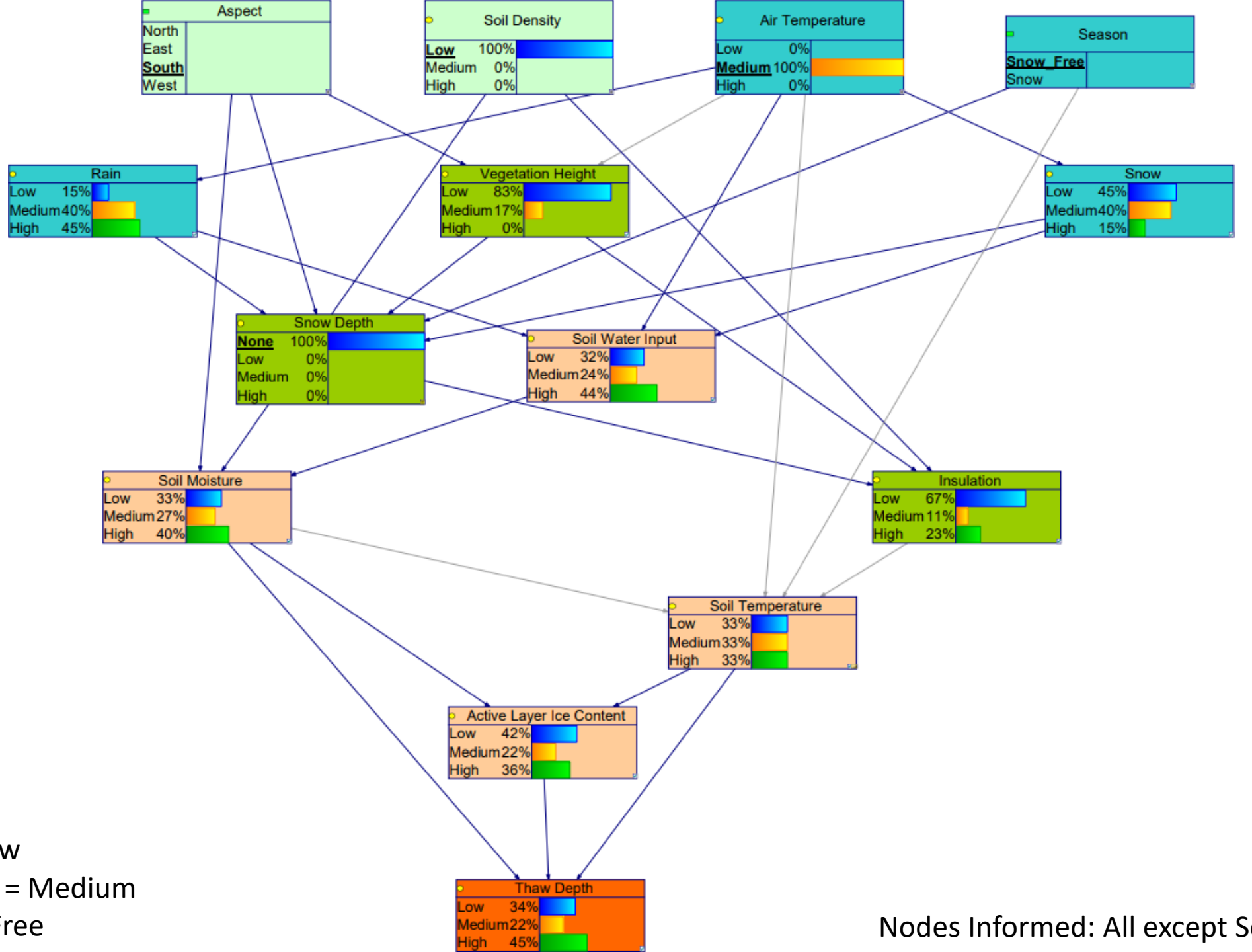
Aspect = North
Soil Density = Low
Air Temperature = Low
Season = Snow Free

Nodes Informed: All except Soil Temperature



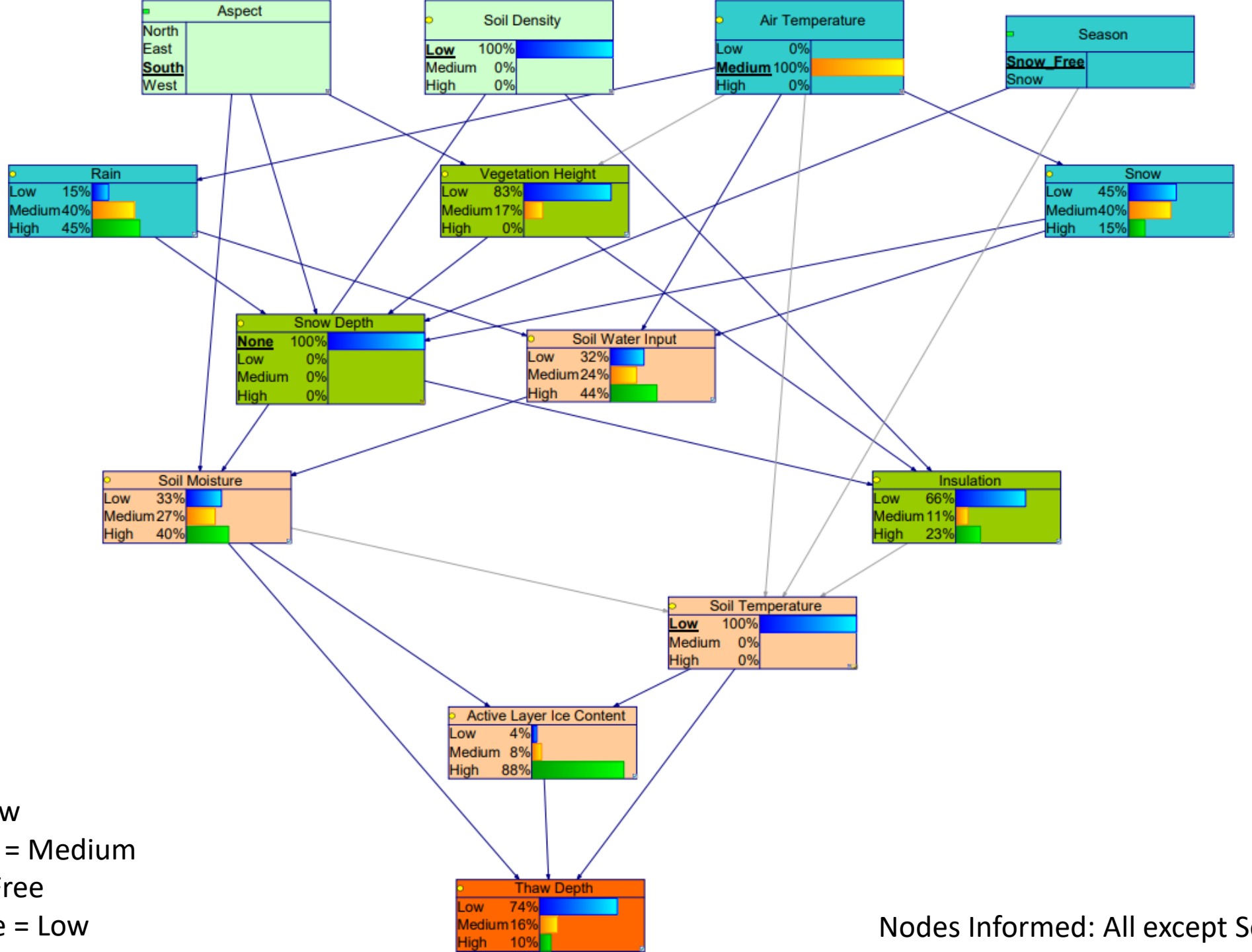
Aspect = South
Soil Density = High
Air Temperature = High
Season = Snow Free

Nodes Informed: All except Soil Temperature



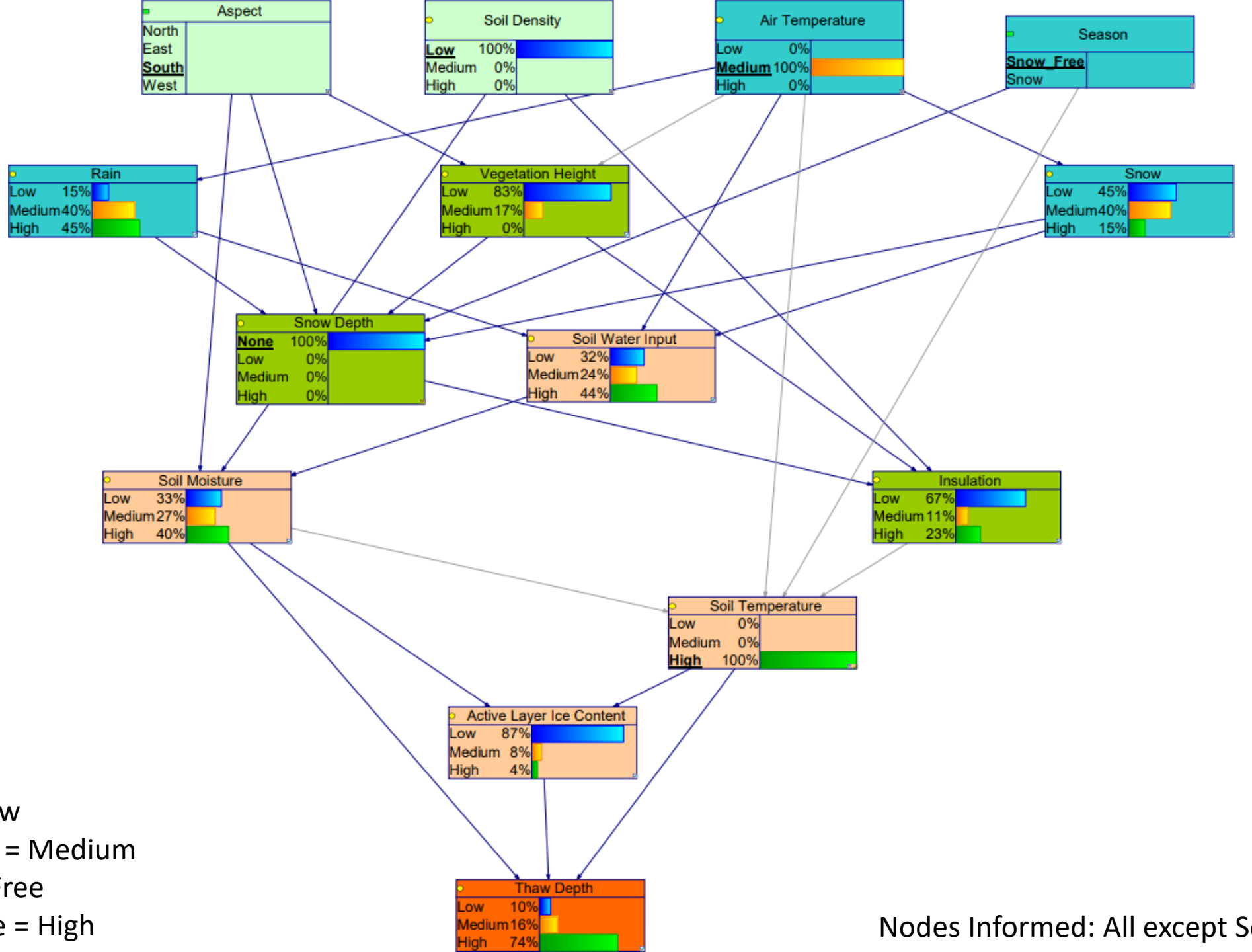
Aspect = South
Soil Density = Low
Air Temperature = Medium
Season = Snow Free

Nodes Informed: All except Soil Temperature



Aspect = South
Soil Density = Low
Air Temperature = Medium
Season = Snow Free
Soil Temperature = Low

Nodes Informed: All except Soil Temperature

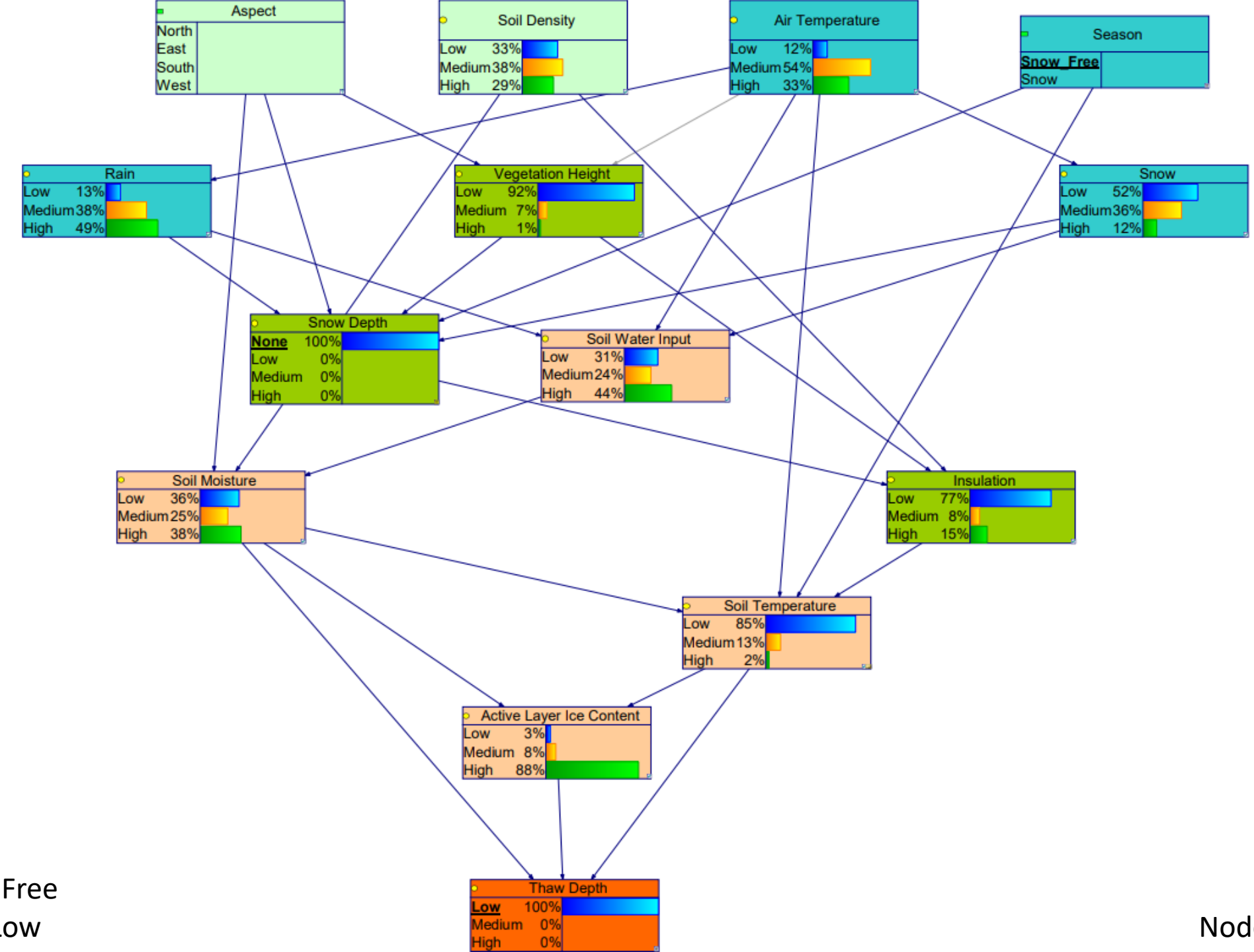


Aspect = South
Soil Density = Low
Air Temperature = Medium
Season = Snow Free
Soil Temperature = High

Nodes Informed: All except Soil Temperature

Evaluation

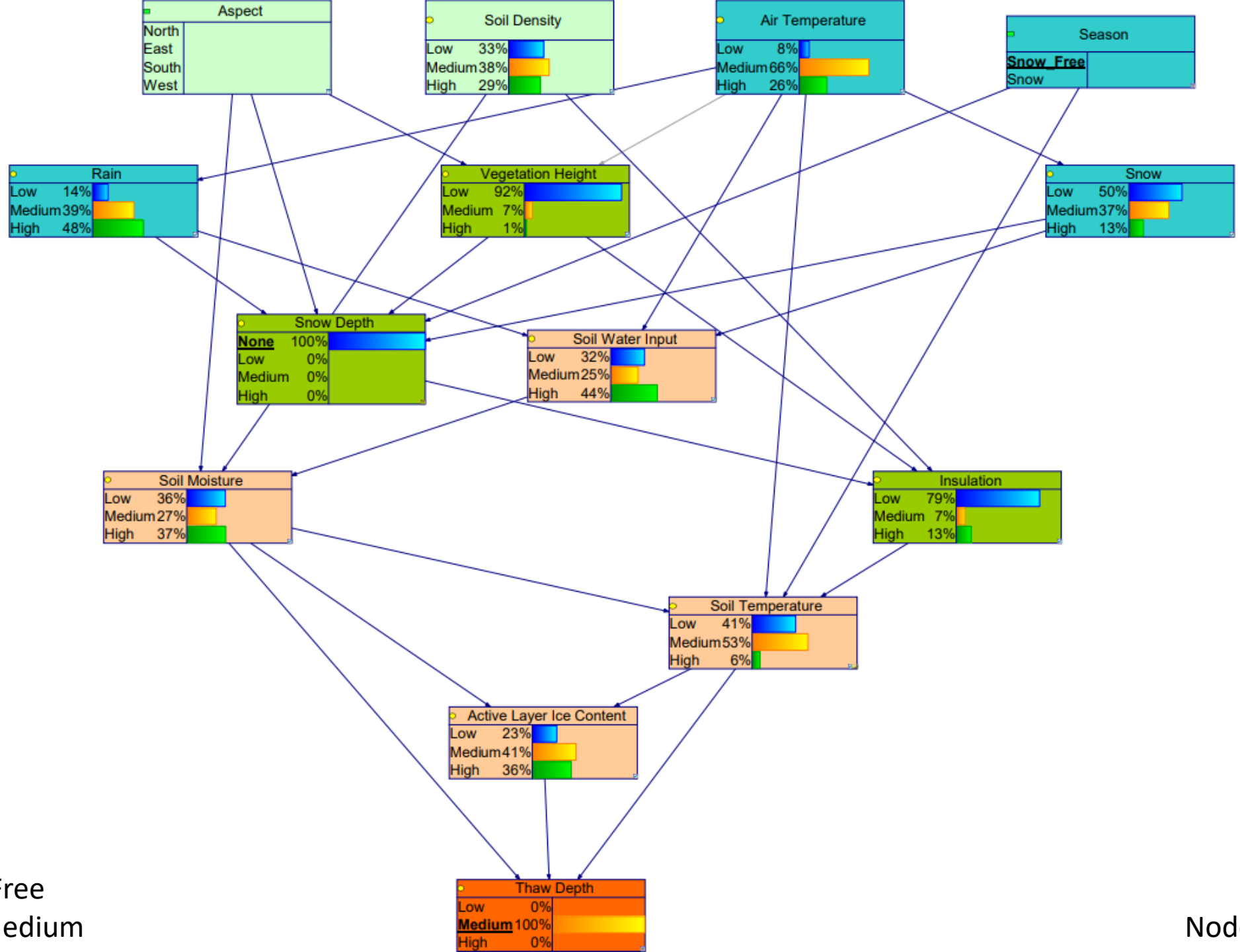
Diagnosis



Season = Snow Free

Thaw Depth = Low

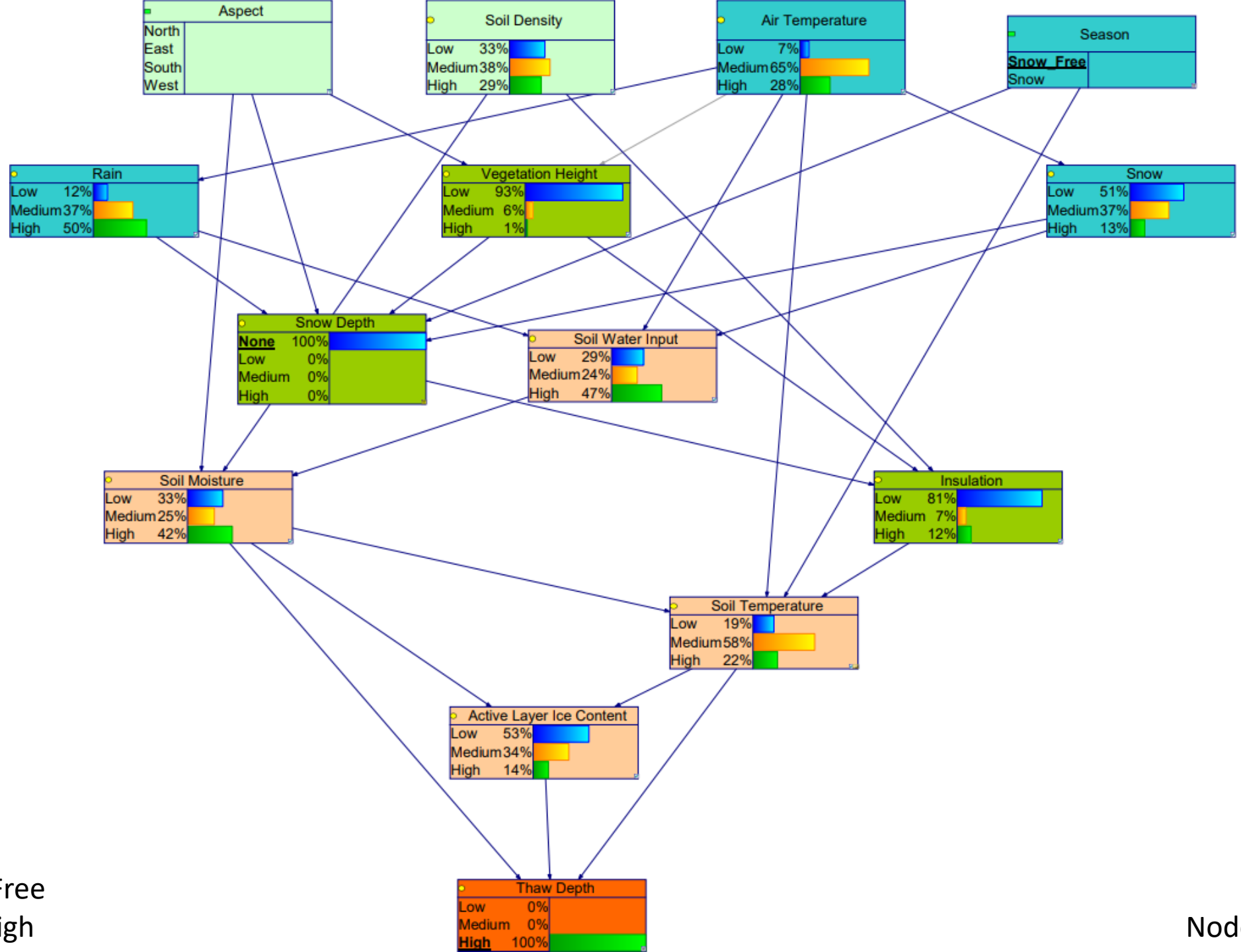
Nodes Informed: All



Season = Snow Free

Thaw Depth = Medium

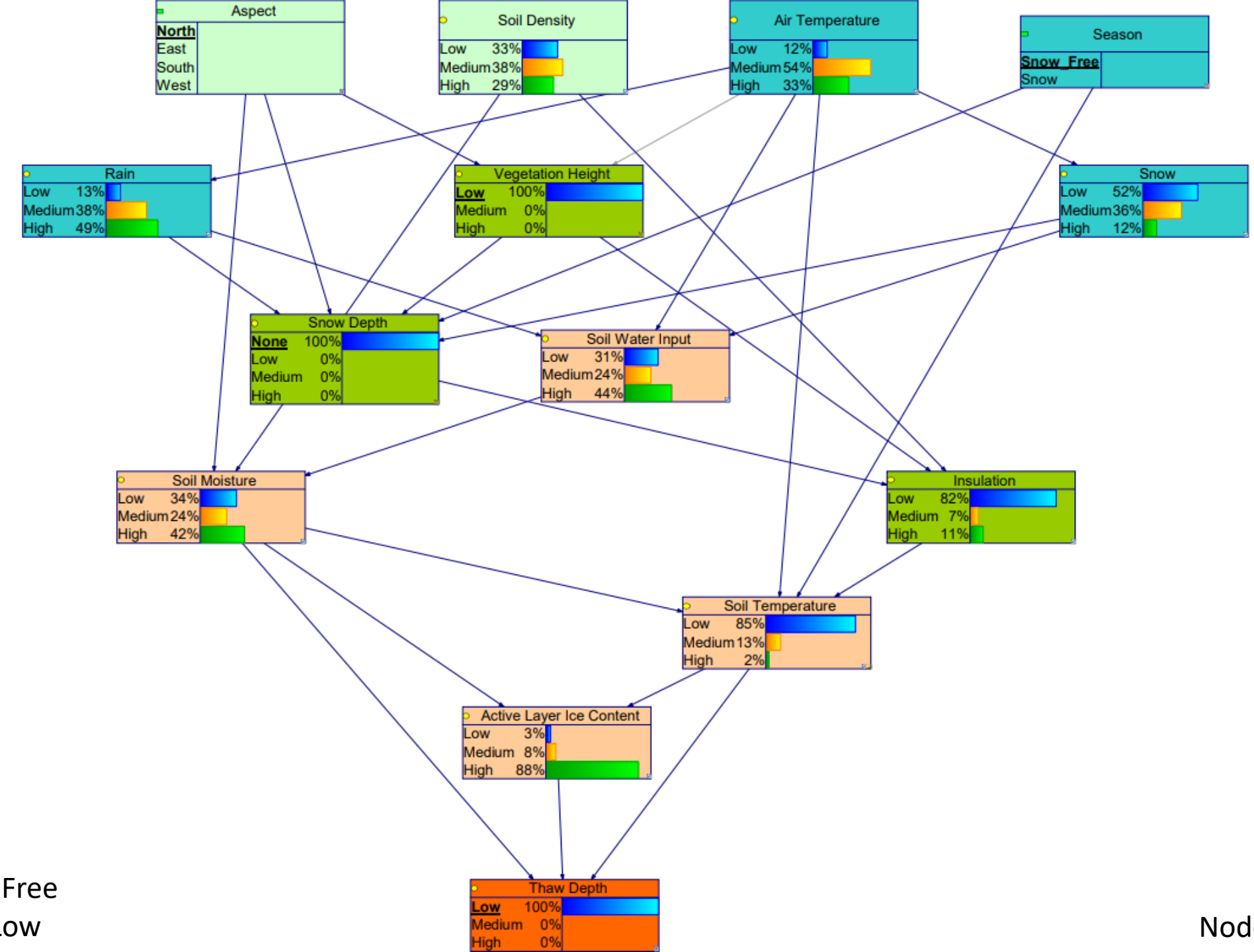
Nodes Informed: All



Season = Snow Free

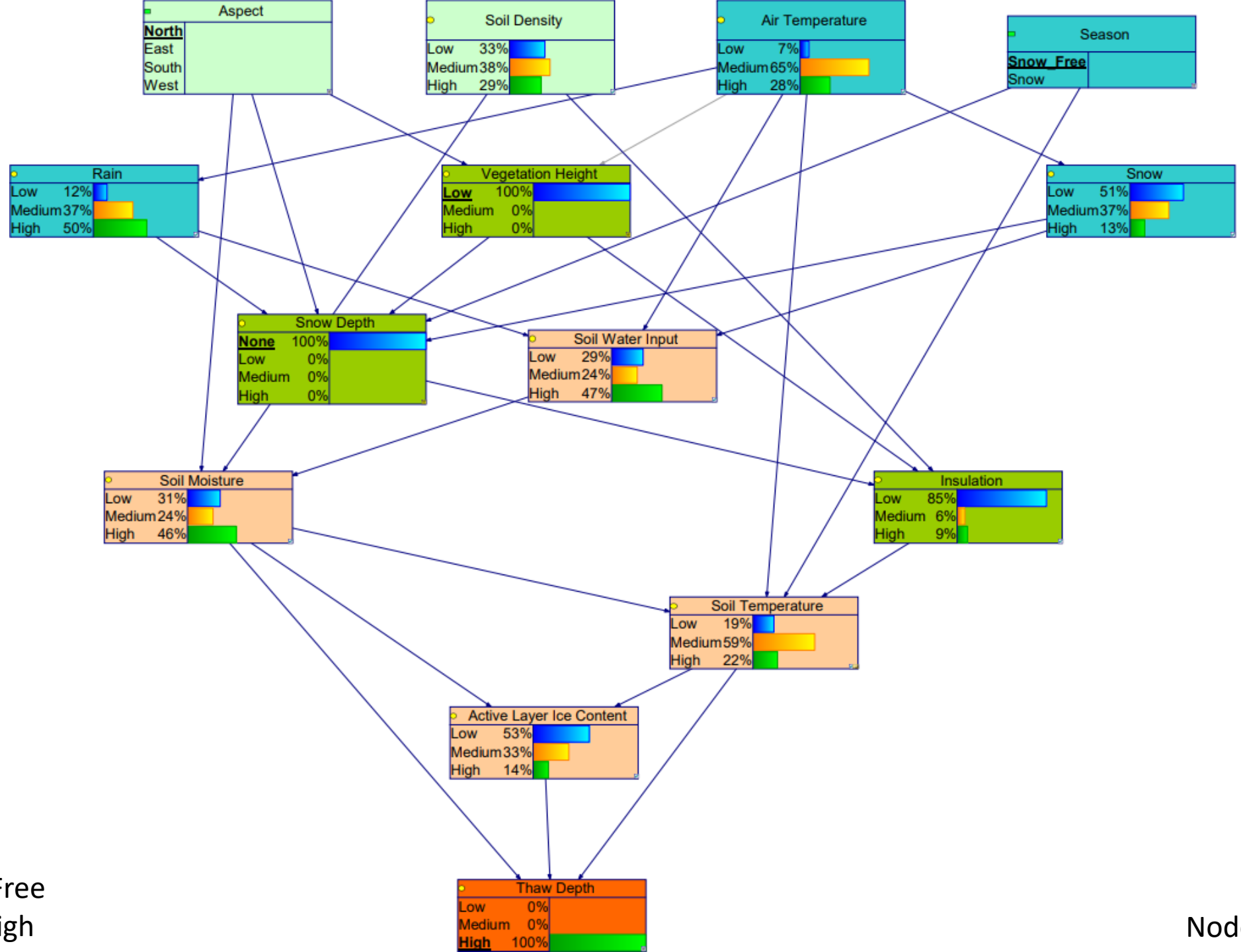
Thaw Depth = High

Nodes Informed: All



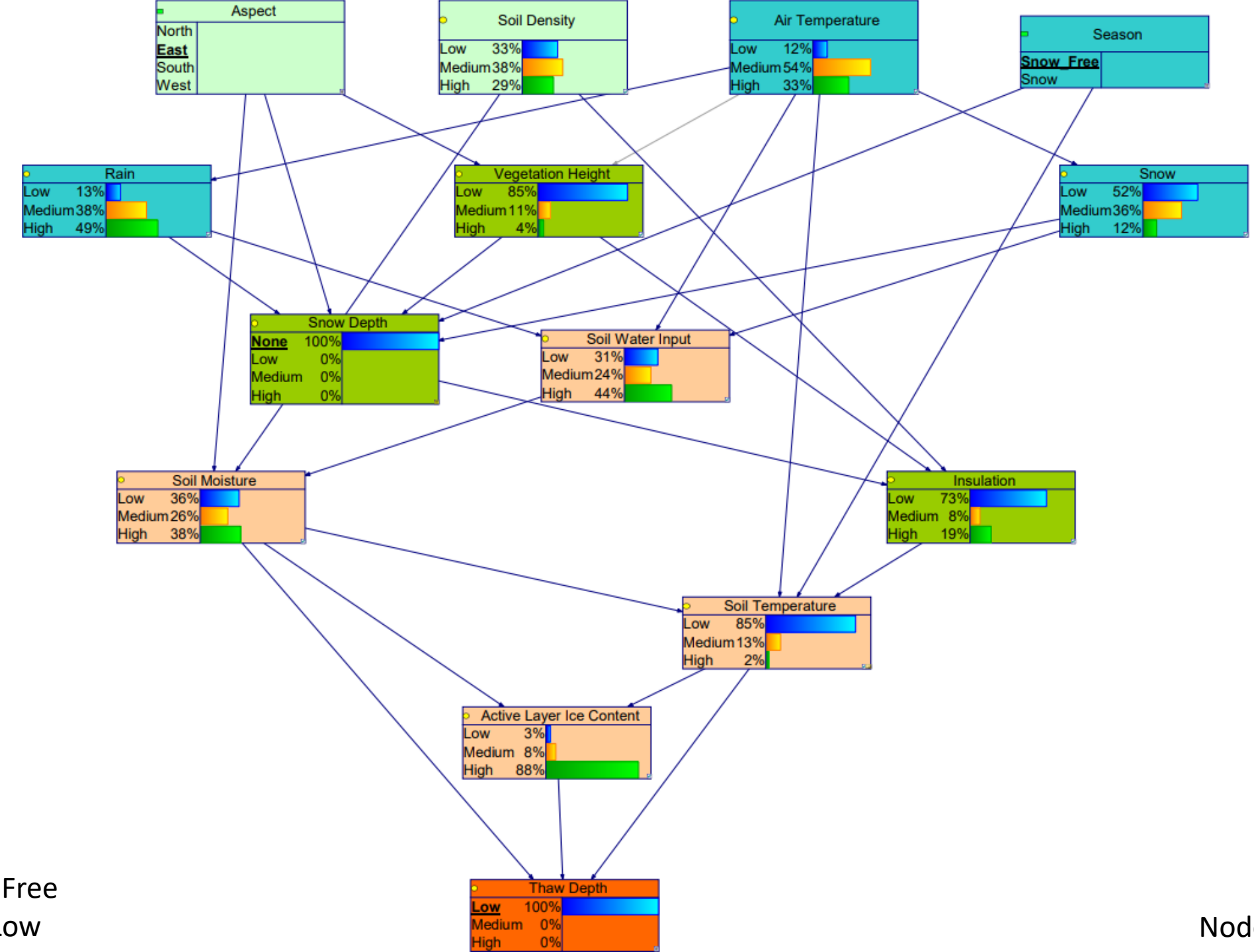
Aspect = North
Season = Snow Free
Thaw Depth = Low

Nodes Informed: All



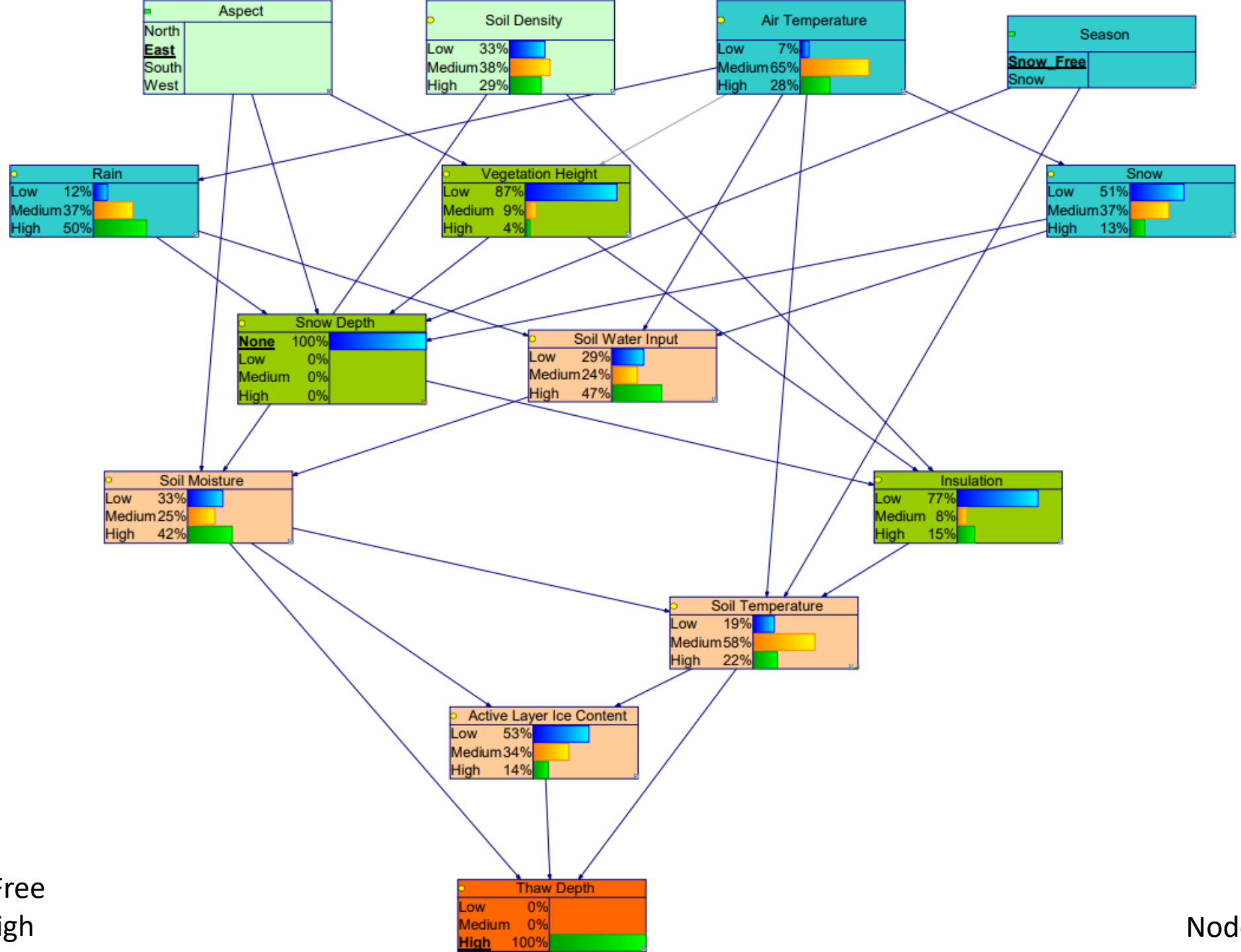
Aspect = North
Season = Snow Free
Thaw Depth = High

Nodes Informed: All



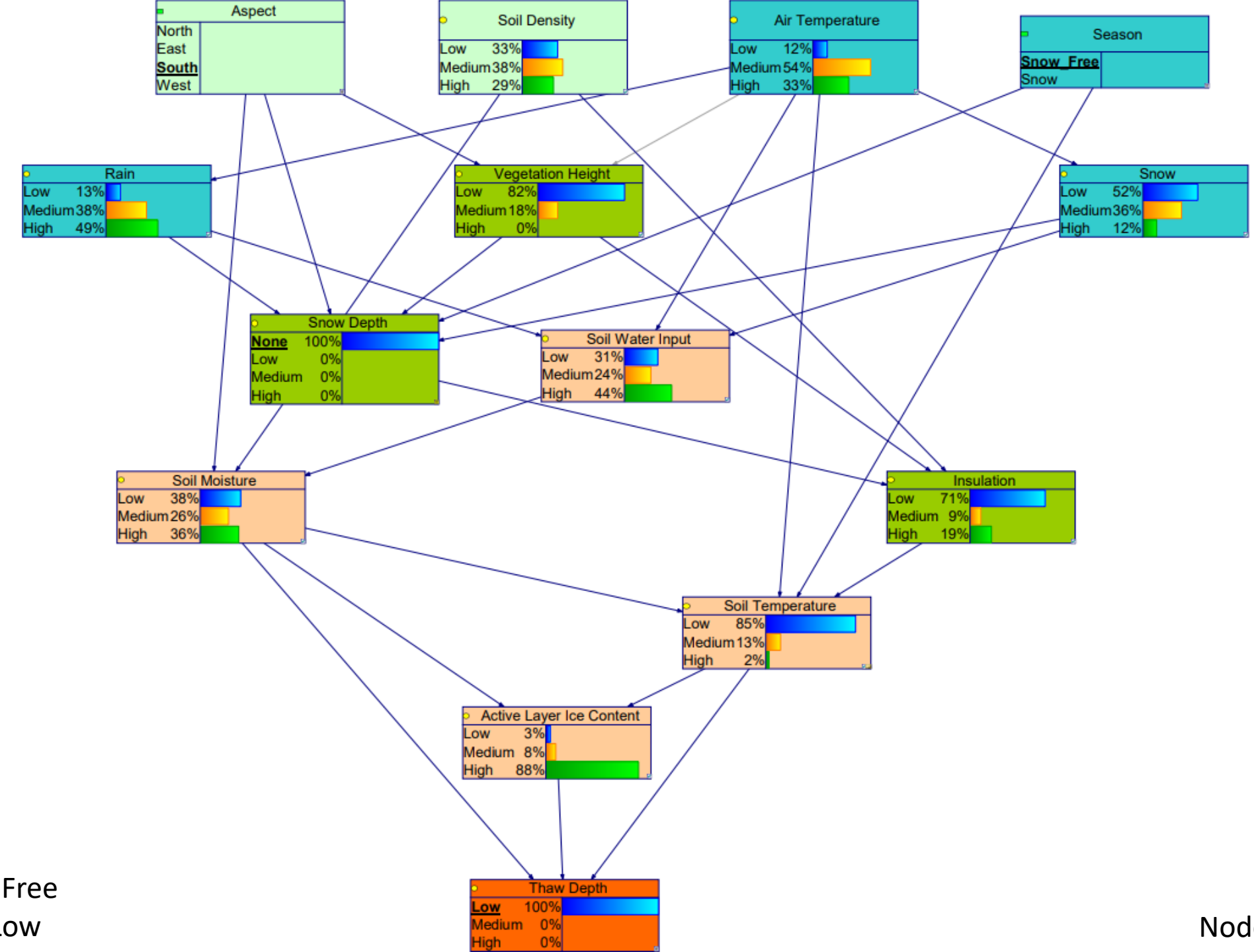
Aspect = East
Season = Snow Free
Thaw Depth = Low

Nodes Informed: All



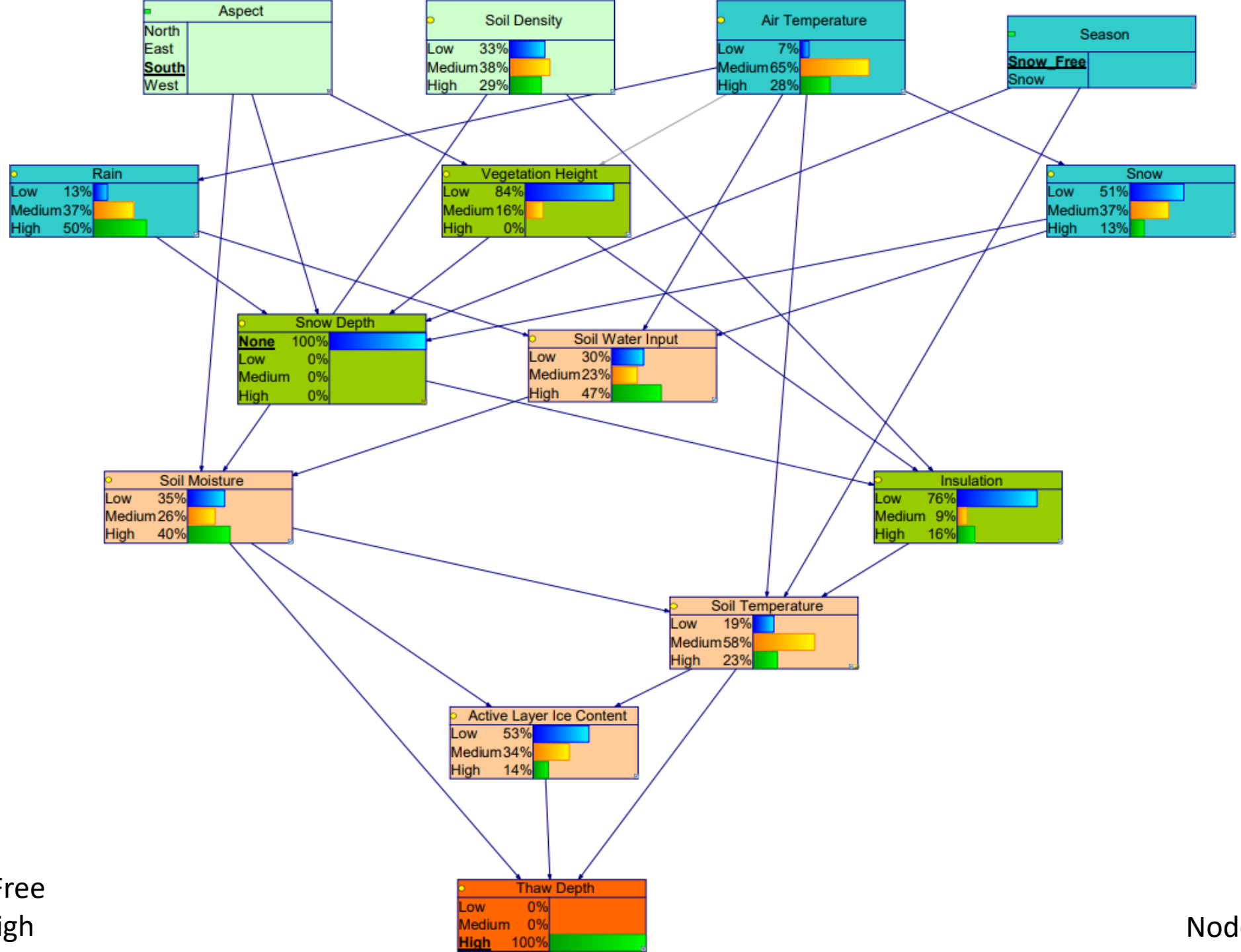
Aspect = East
Season = Snow Free
Thaw Depth = High

Nodes Informed: All



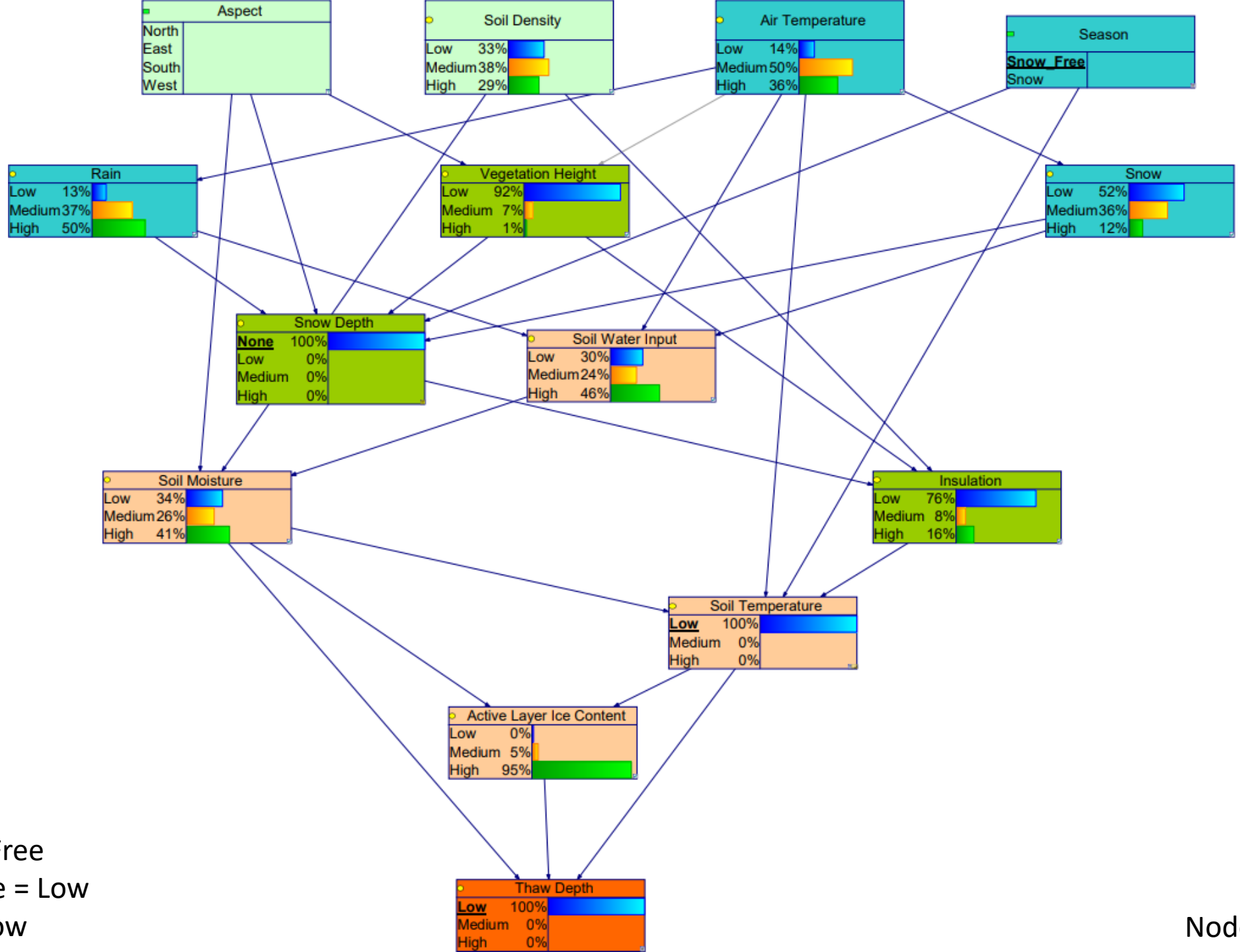
Aspect = South
Season = Snow Free
Thaw Depth = Low

Nodes Informed: All



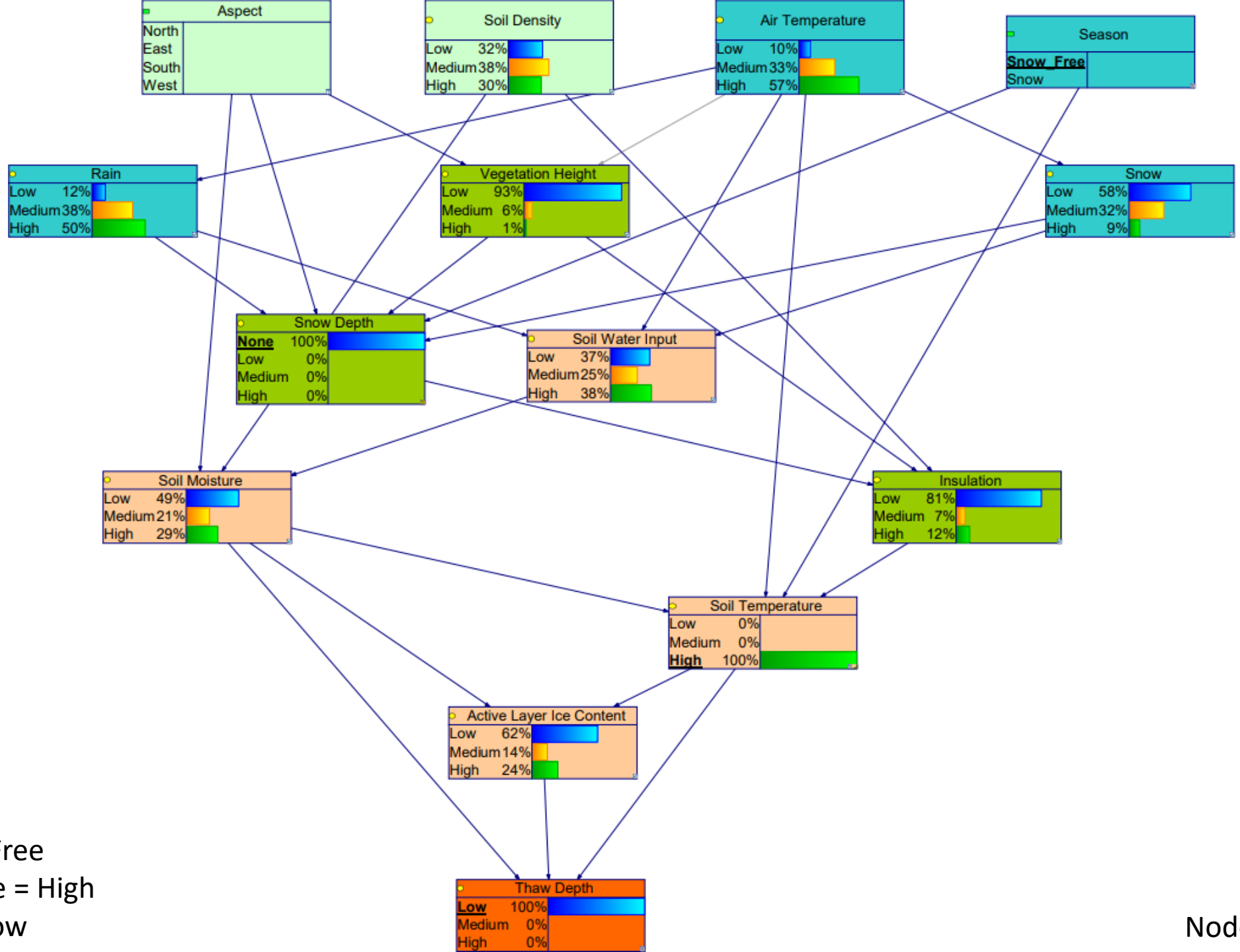
Aspect = South
Season = Snow Free
Thaw Depth = High

Nodes Informed: All



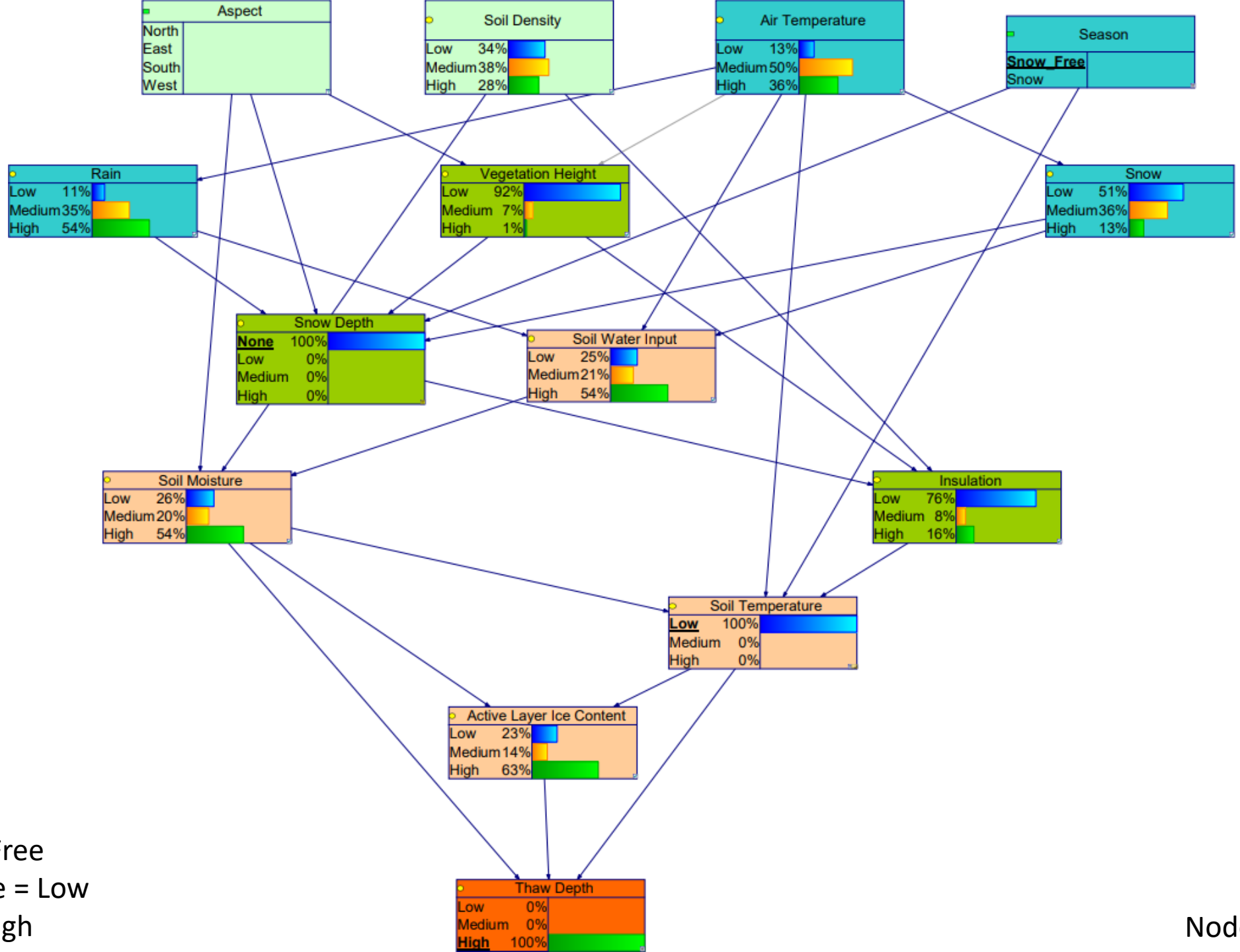
Season = Snow Free
Soil Temperature = Low
Thaw Depth = Low

Nodes Informed: All



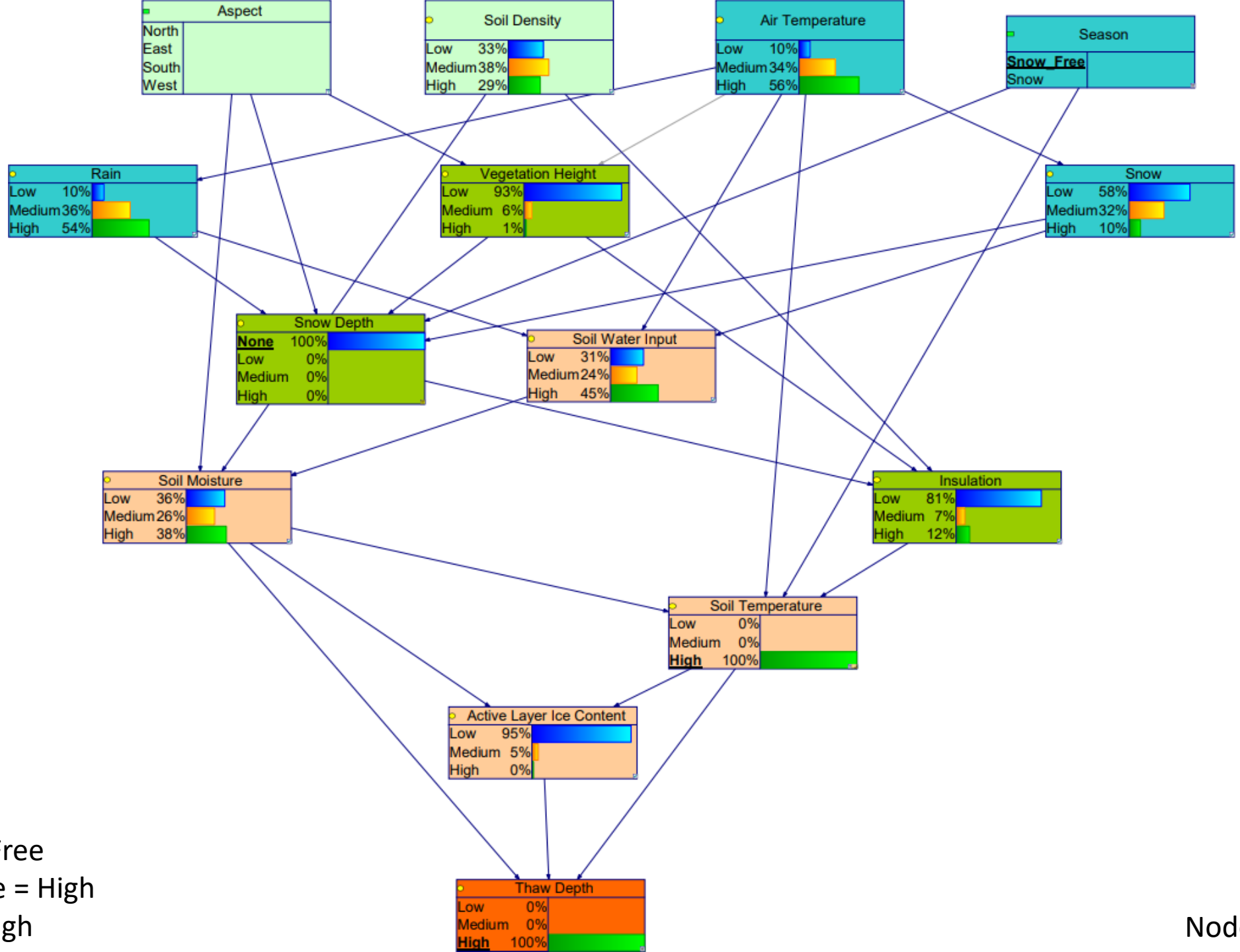
Season = Snow Free
Soil Temperature = High
Thaw Depth = Low

Nodes Informed: All



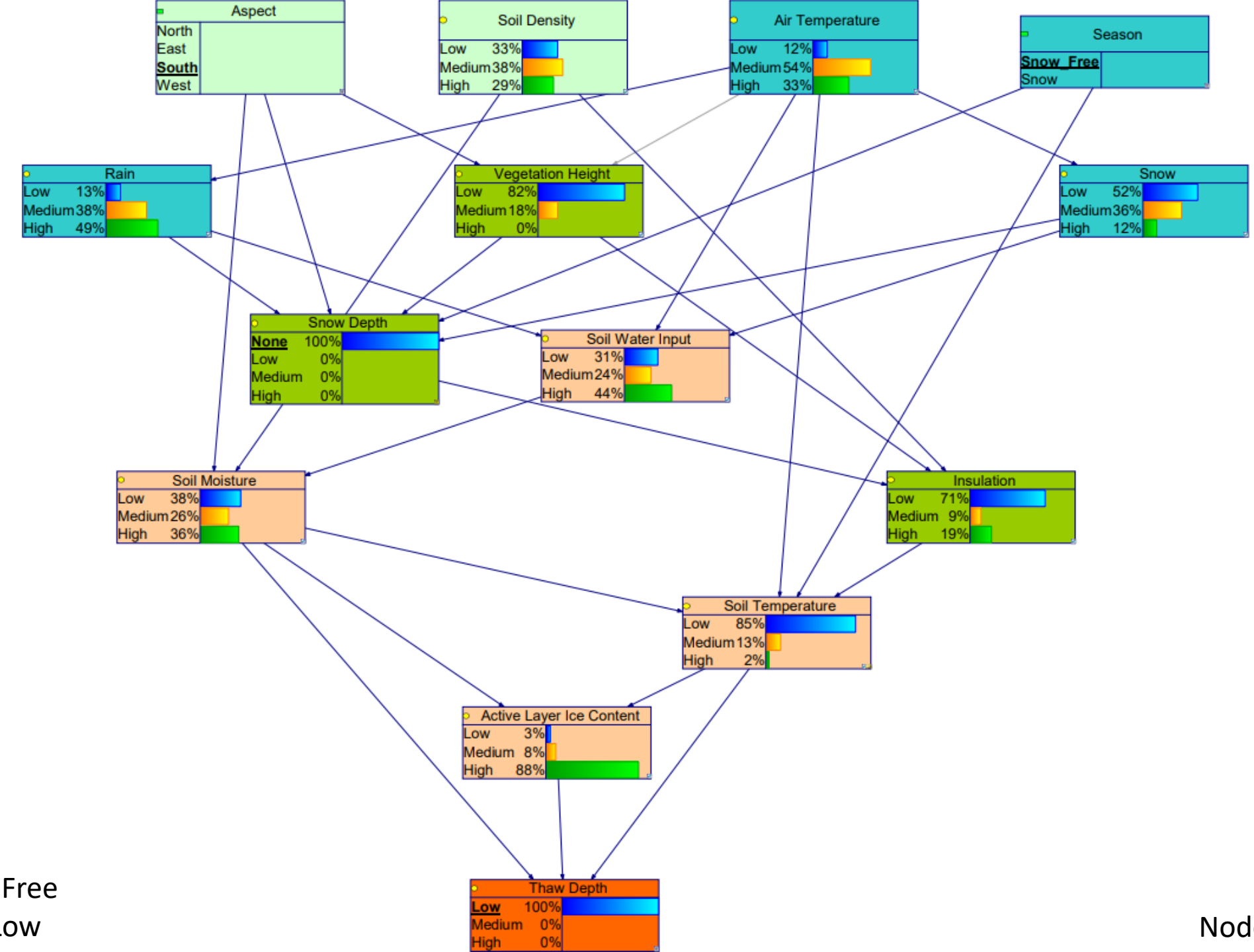
Season = Snow Free
Soil Temperature = Low
Thaw Depth = High

Nodes Informed: All



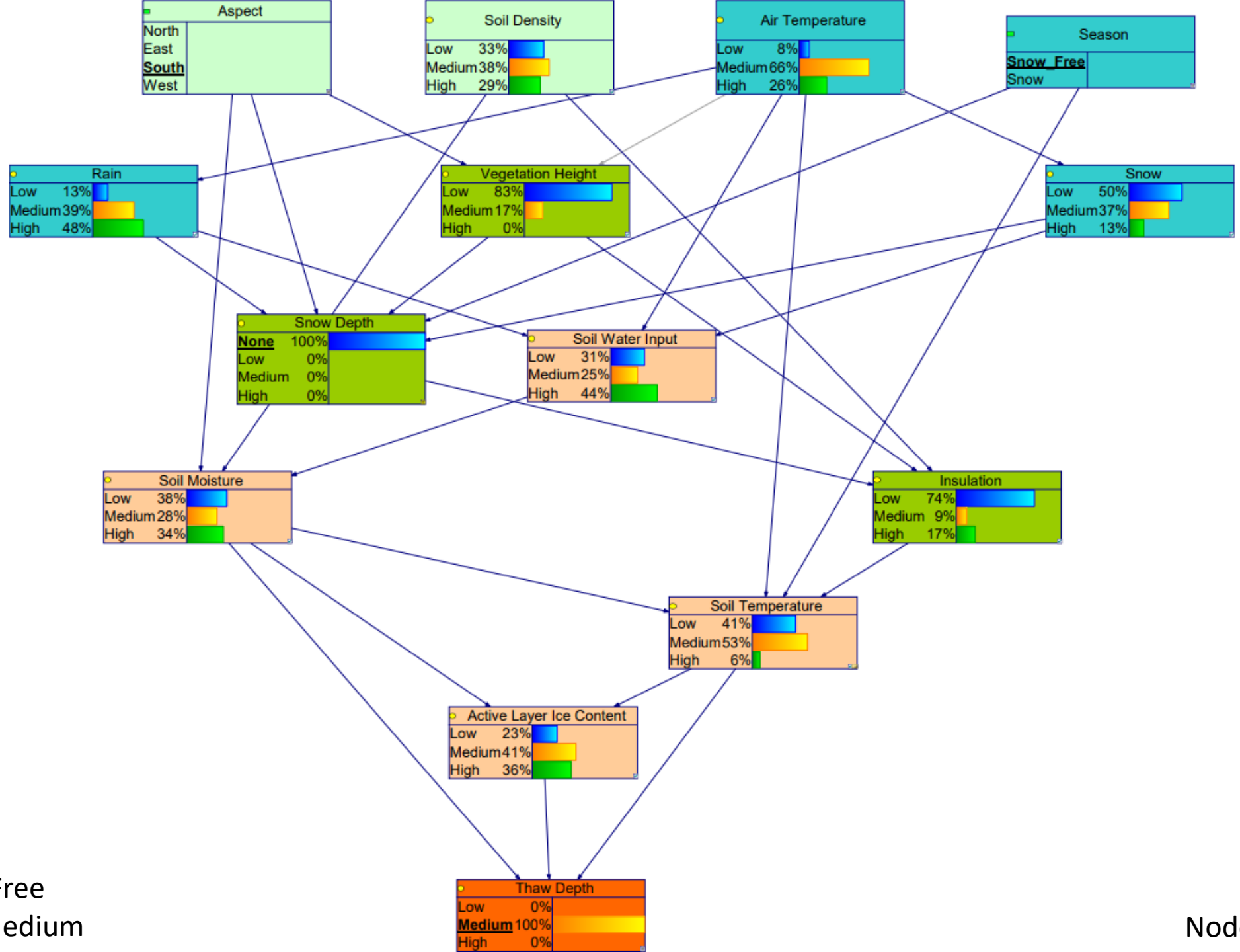
Season = Snow Free
Soil Temperature = High
Thaw Depth = High

Nodes Informed: All



Aspect = South
Season = Snow Free
Thaw Depth = Low

Nodes Informed: All



Aspect = South
Season = Snow Free
Thaw Depth = Medium

Nodes Informed: All