

CONSERVATION TREE/SHRUB MANAGEMENT
Reno County, Kansas

A Conservation Tree/Shrub Suitability Group (CTSG), formerly Windbreak Suitability Group, is a physiographic unit or area having similar climatic and edaphic characteristics that control the selection and height growth of trees and shrubs.

In this table, the Conservation Tree and Shrub Grouping is expressed as a group index number. The group index for Conservation Tree and Shrub groups (CTSG) are a guide for species best suited for different kinds of soil and for prediction height, growth, and effectiveness. The groupings can be used when selection woody plants for windbreaks, wildlife plantings riparian buffers, reforestation, other environmental plantings, recreation, landscaping, wetland restoration or enhancement and critical area plantings. CTSG's are developed to assure satisfactory species selection and adaptation to specific conditions of soil, climate and physiography. CTSG's are a guide for selection species best suited for different kinds of soil and prediction height growth and effectiveness.

All soil series mapped in the state have been placed in 10 groups of similar soil characteristics. Groups 1, 2, 3, 4, 6, and 9 are further divided into subgroups. In addition, all groups provide information by Major Land Resource Areas.

Each tree or shrub species has certain climatic and physiographic limits. Within these parameters a tree or shrub may be well or poorly suited because of soil characteristics. Each tree or shrub also has definable potentials of height growth depending on the factors just mentioned. Accurate definitions of potential heights are necessary for proper windbreak planning and design.

Windbreaks protect livestock, buildings, roads and yards from wind and snow. They also protect fruit trees and gardens, and they furnish habitat for wildlife. Several rows of low-growing and high-growing broadleaf and coniferous trees and shrubs provide the most protection.

Field windbreaks are narrow plantings made at right angles to the prevailing wind and at specific intervals across the field. The interval depends on the erodibility of the soil. Field windbreaks protect cropland and crops from wind, help to keep snow on the fields, and provide food and cover for wildlife.

Environmental plantings help to beautify and screen houses and other buildings and to abate noise. The plants, mostly evergreen shrubs and trees, are closely spaced. To ensure plant survival, a healthy planting stock of suitable species should be planted properly on a well prepared site and maintained in good condition.

Windbreaks are often planted on land that did not grow trees originally. Knowledge of how trees perform on such land can be gained only by observing and recording their performance where trees have been planted and survived. The problem is compounded by the fact that many favorite windbreak species are not indigenous to the areas in which they are planted.

The Kansas Field Office Technical Guide Notice KS-230, Conservation Tree and Shrub Plantings Suitability Groups shows the adapted species listing for each group index number. Showing the height that locally grown trees and shrubs are expected to reach in 20 years on various soils. The estimates are based on measurements and observation of established plantings that have been given adequate care. This information should be used to determine the placement of a windbreak, the area protected and the arrangement of species.

A number of attributes are included in the CTSG species tables for each group number found in this section of the Field Office Technical Guide. These attributes were rated subjectively and assigned a relative value to further assist those unfamiliar with individual species characteristics or desirability for the intended use. Definitions and explanations can be found. Additional information on planning windbreaks and screens and planting and caring for trees and shrubs can be obtained from the local office of the Natural Resources Conservation Service or of the Cooperative Extension Service or from a commercial nursery. See part 537 of the National Forestry Manual for additional information.

In the Tree and Shrub Management table interpretive ratings are given for various aspects of forest and conservation tree and shrub management. Some rating class terms indicate the degree to which the soils are suited to a specified forest management practice. Well suited indicates that the soil has features that are favorable for the specified practice and has no limitations. Good performance can be expected, and little or no maintenance is needed. Moderately well suited indicates that the soil has features that are moderately favorable for the specified practice. One or more soil properties are less than desirable and fair performance can be expected. Some maintenance is needed. Poorly suited indicates that the soil has one or more properties that are unfavorable for the specified practice. Overcoming the unfavorable properties requires special design, extra maintenance, and costly alteration. Unsited indicates that the expected performance of the soil is unacceptable for the specified practice or that extreme measures are needed to overcome the undesirable soil properties.

The paragraphs that follow indicate the soil properties considered in rating the soils for forest and conservation tree and shrub management practices. More detailed information about the criteria used in the ratings is available in the "National Forestry Manual," which is available in local offices of the Natural Resources Conservation Service or on the Internet. Also, in the Kansas Field Office Technical Guide Notice KS-230, Conservation Tree and Shrub Plantings Suitability Groups.

Ratings in the columns suitability for hand planting and suitability for mechanical planting are based on slope, depth to a restrictive layer, content of sand, plasticity index, rock fragments on or below the surface, depth to a water table, and ponding. The soils are described as well suited, moderately well suited, poorly suited, or unsited to these methods of planting. It is assumed that necessary site preparation is completed before seedlings are planted.

Ratings in the column suitability for mechanical site preparation (surface) are based on slope, depth to a restrictive layer, plasticity index, rock fragments on or below the surface, depth to a water table, and ponding. The soils are described as well suited, poorly suited, or unsited to this management activity. The part of the soil from the surface to a depth of about 1-foot is considered in the ratings.

Ratings in the column suitability for mechanical site preparation (deep) are based on slope, depth to a restrictive layer, rock fragments on or below the surface, depth to a water table, and ponding. The soils are described as well suited, poorly suited, or unsited to this management activity. The part of the soil from the surface to a depth of about 3 feet is considered in the ratings.

Ratings in the column potential for seedling mortality are based on flooding, ponding, depth to a water table, content of lime, reaction, salinity, available water capacity, soil moisture regime, soil temperature regime, aspect, and slope. The soils are described as having a low, moderate, or high potential for seedling mortality. See the National Forestry Manual, Subpart B for criteria used in rating management concerns. Specific information on plants and yields can be obtained from the local office of the Natural Resources Conservation Service or the Cooperative Extension Service.

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| Map symbol and soil name | Wind break Group | Suitability for hand planting | Suitability for mechanical planting | Suitability for mechanical site preparation (surface) | Suitability for mechanical site preparation (deep) | Potential for seedling mortality |
|---|------------------------|--|--|--|---|---|
| | | Rating class and limiting features | Rating class and limiting features | Rating class and limiting features | Rating class and limiting features | Rating class and limiting features |
| 990: Abbyville----- | 5 | Well suited | Well suited | Well suited | Well suited | Moderate Available water Soil reaction Salinity |
| 991: Abbyville, rarely flooded----- | 5 | Well suited | Well suited | Well suited | Well suited | Moderate Available water Soil reaction Salinity High |
| Kisiwa, occasionally flooded----- | 9W | Unsuited Wetness | Poorly suited Wetness | Unsuited Wetness | Unsuited Wetness | Wetness Soil reaction |
| 1004: Albion----- | 6G | Well suited | Well suited | Well suited | Well suited | Moderate Available water |
| 1011: Albion----- | 6G | Well suited | Well suited | Well suited | Well suited | Moderate Available water |
| Shellabarger----- | 5 | Well suited | Well suited | Well suited | Well suited | Moderate Available water |
| 1057: Aquents----- | 2 | Unsuited Wetness Sandiness Stickiness | Unsuited Wetness Sandiness Stickiness | Unsuited Wetness | Unsuited Wetness | High Wetness |
| 1061: Arents, Earthen Dam- | | Not rated | Not rated | Not rated | Not rated | Not rated |
| 1062: Arents, Landfill---- | | Unsuited Horizon table contains no data | Unsuited Horizon table contains no data | Unsuited Horizon table contains no data | Unsuited Horizon table contains no data | High Horizon table contains no data |
| 1070: Avans----- | 3 | Well suited | Well suited | Well suited | Well suited | Low |
| 1071: Avans----- | 3 | Well suited | Well suited | Well suited | Well suited | Low |
| 1072: Avans----- | 3 | Well suited | Moderately suited Slope | Well suited | Well suited | Low |
| 1191: Blazefork----- | 4 | Poorly suited Stickiness | Poorly suited Stickiness | Poorly suited Stickiness | Well suited | Low |
| 1192: Blazefork----- | 4 | Poorly suited Stickiness | Poorly suited Stickiness | Poorly suited Stickiness | Well suited | Low |
| Kaskan----- | 1 | Well suited | Well suited | Well suited | Well suited | Low |
| 1200: Buhler----- | 9W | Moderately suited Stickiness | Moderately suited Stickiness | Well suited | Well suited | Moderate Salinity Low |
| Blazefork----- | 4 | Poorly suited Stickiness | Poorly suited Stickiness | Poorly suited Stickiness | Well suited | |
| 1324: Carway----- | 2 | Well suited | Well suited | Well suited | Well suited | High Wetness High Wetness |
| Carbika----- | 2 | Poorly suited Stickiness | Poorly suited Stickiness | Poorly suited Stickiness | Well suited | |
| 1357: Carway----- | 2 | Well suited | Well suited | Well suited | Well suited | High Wetness High |
| Dillhut----- | 7 | Moderately suited Sandiness | Moderately suited Sandiness | Well suited | Well suited | Available water Moderate Available water |
| Solvay----- | 5 | Well suited | Well suited | Well suited | Well suited | |
| 1359: Clark----- | 3 | Well suited | Well suited | Well suited | Well suited | Moderate Soil reaction |

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| Map symbol and soil name | Wind break Group | Suitability for hand planting | Suitability for mechanical planting | Suitability for mechanical site preparation (surface) | Suitability for mechanical site preparation (deep) | Potential for seedling mortality |
|---|------------------------|---|---|--|---|--|
| | | Rating class and limiting features | Rating class and limiting features | Rating class and limiting features | Rating class and limiting features | Rating class and limiting features |
| Ost----- | 8 | Well suited | Moderately suited Slope | Well suited | Well suited | Low |
| 1428: Crete----- | 4C | Poorly suited Stickiness | Poorly suited Stickiness | Poorly suited Stickiness | Well suited | Low |
| 1429: Crete----- | 4C | Poorly suited Stickiness | Poorly suited Stickiness | Poorly suited Stickiness | Well suited | Low |
| 1553: Darlow----- | 8 | Well suited | Well suited | Well suited | Well suited | Moderate Available water Salinity Low |
| Elmer----- | 8 | Well suited | Well suited | Well suited | Well suited | High |
| 1554: Dillhut----- | 7 | Moderately suited Sandiness | Moderately suited Sandiness | Well suited | Well suited | Available water |
| 1555: Dillhut----- | 7 | Moderately suited Sandiness | Moderately suited Sandiness | Well suited | Well suited | High |
| Plev----- | 2 | Moderately suited Sandiness | Moderately suited Sandiness | Well suited | Well suited | Available water High |
| 1556: Dillhut----- | 7 | Moderately suited Sandiness | Moderately suited Sandiness | Well suited | Well suited | Wetness |
| Solvay----- | 5 | Well suited | Well suited | Well suited | Well suited | High |
| 1725: Farnum----- | 4 | Well suited | Well suited | Well suited | Well suited | Available water Moderate Available water |
| Funmar----- | 3 | Well suited | Well suited | Well suited | Well suited | Low |
| 1727: Funmar----- | 3 | Well suited | Well suited | Well suited | Well suited | Low |
| Taver----- | 3 | Poorly suited Stickiness | Poorly suited Stickiness | Poorly suited Stickiness | Well suited | Moderate Available water |
| 1804: Geary----- | 4 | Well suited | Well suited | Well suited | Well suited | Low |
| 1807: Geary, Moderately Eroded----- | 4 | Well suited | Moderately suited Slope | Well suited | Well suited | Low |
| 1985: Hayes----- | 5 | Well suited | Well suited | Well suited | Well suited | Moderate Available water |
| 1986: Hayes----- | 5 | Well suited | Well suited | Well suited | Well suited | Moderate Available water |
| Solvay----- | 5 | Well suited | Well suited | Well suited | Well suited | Moderate Available water |
| 1987: Hayes----- | 5 | Well suited | Well suited | Well suited | Well suited | Moderate Available water Low |
| Turon----- | 7 | Moderately suited Sandiness | Moderately suited Sandiness | Well suited | Well suited | Low |
| 2204: Jamash----- | 6 | Moderately suited Stickiness | Moderately suited Stickiness | Well suited | Well suited | Low |
| Piedmont----- | 4 | Well suited | Well suited | Well suited | Well suited | Low |
| 2205: Jamash----- | 6 | Moderately suited Stickiness | Moderately suited Stickiness | Well suited | Well suited | Low |
| Piedmont----- | 4 | Well suited | Well suited | Well suited | Well suited | Low |
| 2206: Jamash----- | 6 | Moderately suited | Moderately suited | Well suited | Well suited | Low |

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| Map symbol and soil name | Wind break Group | Suitability for hand planting | Suitability for mechanical planting | Suitability for mechanical site preparation (surface) | Suitability for mechanical site preparation (deep) | Potential for seedling mortality |
|--|------------------------|---|--|--|---|---|
| | | Rating class and limiting features | Rating class and limiting features | Rating class and limiting features | Rating class and limiting features | Rating class and limiting features |
| Piedmont----- | 4 | Stickiness Well suited | Stickiness Slope Moderately suited Slope | Well suited | Well suited | Low |
| 2207: Jamash----- | 6 | Moderately suited Stickiness | Moderately suited Stickiness Slope | Well suited | Well suited | Low |
| 2381: Kanza----- | 2 | Well suited | Well suited | Well suited | Well suited | Low |
| Ninnescah----- | 9W | Well suited | Well suited | Well suited | Well suited | Moderate Wetness Soil reaction |
| 2390: Kaskan----- | 1 | Well suited | Well suited | Well suited | Well suited | Low |
| 2391: Kaskan----- | 1 | Well suited | Well suited | Well suited | Well suited | Low |
| 2395: Kisiwa----- | 9W | Unsuited Wetness | Poorly suited Wetness | Unsuited Wetness | Unsuited Wetness | High Wetness Soil reaction |
| 2509: Ladysmith----- | 4 | Poorly suited Stickiness | Poorly suited Stickiness | Poorly suited Stickiness | Well suited | Low |
| 2556: Langdon----- | 7 | Moderately suited Sandiness | Moderately suited Sandiness Slope | Well suited | Well suited | Low |
| 2587: Imano----- | 9 | Well suited | Well suited | Well suited | Well suited | Moderate Soil reaction |
| 2588: Longford, Moderately Eroded----- | 3 | Poorly suited Stickiness | Poorly suited Stickiness | Poorly suited Stickiness | Well suited | Low |
| 2812: Mahone----- | 1 | Well suited | Well suited | Well suited | Well suited | Low |
| 2948: Nalim----- | 3 | Well suited | Well suited | Well suited | Well suited | Low |
| 2949: Naron, Moderately Eroded----- | 5 | Well suited | Well suited | Well suited | Well suited | Moderate Available water |
| 2950: Naron, Moderately Eroded----- | 5 | Well suited | Moderately suited Slope | Well suited | Well suited | Moderate Available water |
| 2951: Nash----- | 4 | Well suited | Well suited | Well suited | Well suited | Low |
| 2952: Nash----- | 4 | Well suited | Moderately suited Slope | Well suited | Well suited | Low |
| Lucien----- | 4 | Moderately suited Rock fragments | Poorly suited Rock fragments Slope | Poorly suited Rock fragments | Well suited | Low |
| 2953: Nash, Moderately Eroded----- | 4 | Well suited | Moderately suited Slope | Well suited | Well suited | Low |
| Lucien----- | 4 | Moderately suited Rock fragments | Poorly suited Rock fragments Slope | Poorly suited Rock fragments | Well suited | Low |
| 2955: Nickerson----- | 5 | Well suited | Well suited | Well suited | Well suited | Low |
| 2956: Nickerson----- | 5 | Well suited | Well suited | Well suited | Well suited | Low |
| 2957: Nickerson----- | 5 | Well suited | Well suited | Well suited | Well suited | Low |
| Punkin----- | 9 | Well suited | Well suited | Well suited | Well suited | Low |
| 2958: Ninnescah----- | 9W | Well suited | Well suited | Well suited | Well suited | Moderate |

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| Map symbol and soil name | Wind break Group | Suitability for hand planting | Suitability for mechanical planting | Suitability for mechanical site preparation (surface) | Suitability for mechanical site preparation (deep) | Potential for seedling mortality |
|---|------------------------|---|---|--|---|--|
| | | Rating class and limiting features | Rating class and limiting features | Rating class and limiting features | Rating class and limiting features | Rating class and limiting features |
| 2959: Ninnescah, saline--- | 9 | Well suited | Well suited | Well suited | Well suited | Wetness Soil reaction High Wetness Salinity Soil reaction |
| 3051: Ost----- | 8 | Well suited | Well suited | Well suited | Well suited | Low |
| 3052: Ost----- | 8 | Well suited | Well suited | Well suited | Well suited | Low |
| Clark----- | 3 | Well suited | Well suited | Well suited | Well suited | Moderate Soil reaction |
| 3170: Penalosa----- | 4 | Well suited | Well suited | Well suited | Well suited | Low |
| 3171: Penalosa----- | 4 | Well suited | Well suited | Well suited | Well suited | Low |
| 3180: Pratt----- | 7 | Well suited | Moderately suited Slope | Well suited | Well suited | Low |
| 3181: Pratt----- | 7 | Well suited | Well suited | Well suited | Well suited | Low |
| Turon----- | 7 | Moderately suited Sandiness | Moderately suited Sandiness | Well suited | Well suited | Low |
| 3190: Punkin----- | 9W | Moderately suited Stickiness | Moderately suited Stickiness | Poorly suited Stickiness | Well suited | Low |
| 3191: Punkin----- | 9W | Moderately suited Stickiness | Moderately suited Stickiness | Poorly suited Stickiness | Well suited | Low |
| Taver----- | 3 | Poorly suited Stickiness | Poorly suited Stickiness | Poorly suited Stickiness | Well suited | Moderate Available water |
| 3403: Sand Pit----- | | Not rated | Not rated | Not rated | Not rated | Not rated |
| 3469: Smolan----- | 4 | Moderately suited Stickiness | Moderately suited Stickiness | Well suited | Well suited | Low |
| 3510: Saltcreek----- | 5 | Well suited | Well suited | Well suited | Well suited | Moderate Available water Low |
| Funmar----- | 3 | Well suited | Well suited | Well suited | Well suited | Low |
| Farnum----- | 4 | Well suited | Well suited | Well suited | Well suited | Low |
| 3511: Saltcreek----- | 5 | Well suited | Well suited | Well suited | Well suited | Moderate Available water Low |
| Naron, sandy substratum----- | 5 | Well suited | Well suited | Well suited | Well suited | |
| 3512: Saltcreek----- | 5 | Well suited | Well suited | Well suited | Well suited | Moderate Available water |
| Naron----- | 5 | Well suited | Well suited | Well suited | Well suited | Moderate Available water |
| 3520: Saxman----- | 1 | Well suited | Well suited | Well suited | Well suited | Low |
| 3530: Shellabarger, Eroded | 5 | Well suited | Moderately suited Slope | Well suited | Well suited | Moderate Available water |
| Albion----- | 6G | Well suited | Moderately suited Slope | Well suited | Well suited | Moderate Available water |
| 3531: Shellabarger, Moderately Eroded-- | 5 | Well suited | Well suited | Well suited | Well suited | Moderate Available water |
| Nalim----- | 3 | Well suited | Well suited | Well suited | Well suited | Low |

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| Map symbol and soil name | Wind break Group | Suitability for hand planting | Suitability for mechanical planting | Suitability for mechanical site preparation (surface) | Suitability for mechanical site preparation (deep) | Potential for seedling mortality |
|--|------------------------|---|---|--|---|---|
| | | Rating class and limiting features | Rating class and limiting features | Rating class and limiting features | Rating class and limiting features | Rating class and limiting features |
| 3532: Shellabarger----- | 5 | Well suited | Well suited | Well suited | Well suited | Moderate Available water |
| 3533: Shellabarger----- | 5 | Well suited | Well suited | Well suited | Well suited | Moderate Available water |
| 3534: Shellabarger----- | 5 | Well suited | Well suited | Well suited | Well suited | Moderate Available water |
| 3535: Shellabarger----- | 5 | Well suited | Well suited | Well suited | Well suited | Moderate Available water |
| Nalim----- | 3 | Well suited | Well suited | Well suited | Well suited | Low |
| 3540: Solvay----- | 5 | Well suited | Well suited | Well suited | Well suited | Moderate Available water |
| 3550: Spelvin----- | 5 | Well suited | Well suited | Well suited | Well suited | Moderate Available water |
| 3639: Taver----- | 3 | Poorly suited Stickiness | Poorly suited Stickiness | Poorly suited Stickiness | Well suited | Moderate Available water |
| 3640: Tivin----- | 7 | Moderately suited Sandiness | Moderately suited Slope Sandiness | Poorly suited Slope | Poorly suited Slope | Low |
| 3641: Tivin----- | 7 | Moderately suited Sandiness | Moderately suited Sandiness Slope | Well suited | Well suited | Low |
| Dillhut----- | 7 | Moderately suited Sandiness | Moderately suited Sandiness | Well suited | Well suited | High Available water |
| 3642: Tivin----- | 7 | Moderately suited Sandiness | Moderately suited Sandiness Slope | Well suited | Well suited | Low |
| Willowbrook, occasionally flooded----- | 1 | Well suited | Well suited | Well suited | Well suited | Moderate Available water |
| 3643: Tobin----- | 1 | Well suited | Well suited | Well suited | Well suited | Low |
| 3644: Turon----- | 7 | Moderately suited Sandiness | Moderately suited Sandiness | Well suited | Well suited | Low |
| Carway----- | 2 | Well suited | Well suited | Well suited | Well suited | High Wetness |
| 3760: Urban Land, Protected----- | | Not rated | Not rated | Not rated | Not rated | Not rated |
| Blazefork, Protected | 4 | Poorly suited Stickiness | Poorly suited Stickiness | Poorly suited Stickiness | Well suited | Low |
| Kaskan, Protected--- | 1 | Well suited | Well suited | Well suited | Well suited | Low |
| 3762: Urban Land----- | | Not rated | Not rated | Not rated | Not rated | Not rated |
| Darlow----- | 8 | Well suited | Well suited | Well suited | Well suited | Moderate Available water Salinity Low |
| Elmer----- | 8 | Well suited | Well suited | Well suited | Well suited | Not rated |
| 3763: Urban Land, Protected----- | | Not rated | Not rated | Not rated | Not rated | Not rated |
| Imano, Protected---- | 9 | Well suited | Well suited | Well suited | Well suited | Moderate |

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|--|------------------------|---|---|--|---|---|
| | | Rating class and limiting features | Rating class and limiting features | Rating class and limiting features | Rating class and limiting features | Rating class and limiting features |
| 3764: Urban Land, Protected----- | | Not rated | Not rated | Not rated | Not rated | Soil reaction Not rated |
| Mahone, Protected--- | 1 | Well suited | Well suited | Well suited | Well suited | Low |
| 3765: Urban Land----- | | Not rated | Not rated | Not rated | Not rated | Not rated |
| Saltcreek----- | 5 | Well suited | Well suited | Well suited | Well suited | Moderate Available water Low |
| Naron----- | 5 | Well suited | Well suited | Well suited | Well suited | Low |
| 3766: Urban Land, Protected----- | | Not rated | Not rated | Not rated | Not rated | Not rated |
| Saxman, Protected--- | 1 | Well suited | Well suited | Well suited | Well suited | Low |
| 3767: Urban Land, Protected----- | | Not rated | Not rated | Not rated | Not rated | Not rated |
| Willowbrook, Protected----- | 1 | Well suited | Well suited | Well suited | Well suited | Moderate Available water |
| 3768: Urban Land, Protected----- | | Not rated | Not rated | Not rated | Not rated | Not rated |
| Yaggy, Protected--- | 1 | Well suited | Well suited | Well suited | Well suited | Moderate Available water |
| 3900: Warnut----- | 2 | Well suited | Well suited | Well suited | Well suited | High Wetness |
| 3926: Water----- | | Not rated | Not rated | Not rated | Not rated | Not rated |
| 3966: Willowbrook----- | 1 | Well suited | Well suited | Well suited | Well suited | Moderate Available water |
| 4004: Yaggy----- | 1 | Well suited | Well suited | Well suited | Well suited | Moderate Available water |
| 4005: Yaggy----- | 1 | Well suited | Well suited | Well suited | Well suited | Moderate Available water Low |
| Saxman----- | 1 | Well suited | Well suited | Well suited | Well suited | Low |
| 4110: Zellmont----- | 6 | Well suited | Well suited | Well suited | Well suited | Low |
| Poxmash----- | 6 | Well suited | Well suited | Well suited | Well suited | Low |

