**Evaluation of Alternate Land Use Options for the Proposed Donner Development Slope Analysis for Grape Vineyards: Assessment Based on Digital Elevational Model Data** Legend **Percent Slope** Route 300 (Engineering Measure) Strawridge Road 0 - 3 3 - 6 6 - 99 - 12 12 - 15 15 - 18 18 - 21 Vinevard 21 - 24 > 24 **Donner Trust Parcels** Magnanini Vineyard Borden Farm Area Roads Ulster County Orange County The Hatch Streams Ponds Data Sources: Feet Percent slope is an important variable in site selection for grape cultivation. For Hydrology: HydroQuest Project Boundaries: 1,500 2,250 3,000 comparison purposes, a 45 degree slope is equal to a 100 percent slope. Similarly, 750 **Éngineering Properties** a 15 percent slope corresponds with an 8.5 degree slope and a 25 percent slope Orthoimagery: OCS&CIC corresponds with a 14.0 degree slope. The Digital Elevation Model (DEM) data DEMs: USGS/NYSDEC Projection: UTM (meters) used in this analysis was provided by the U.S. Geologic Survey in cooperation with Datum: NAD27, Zone 18 Slope B the NYS DEC. DEMs have a cell size of 10 meters by 10 meters. Vertical position P.O. Box 38 Slope Analysis and accuracy is within 6 to 8 meters. This analysis shows that a large percentage of the Cartography: HydroQuest Prepared For: Friends of Donner Trust lands have slopes of less than 6 percent. **Borden Home Farm 1-07**