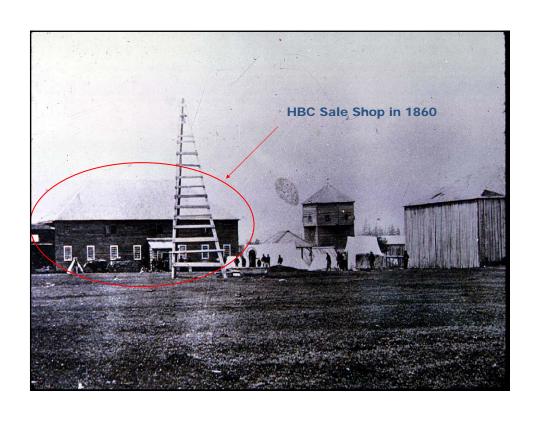
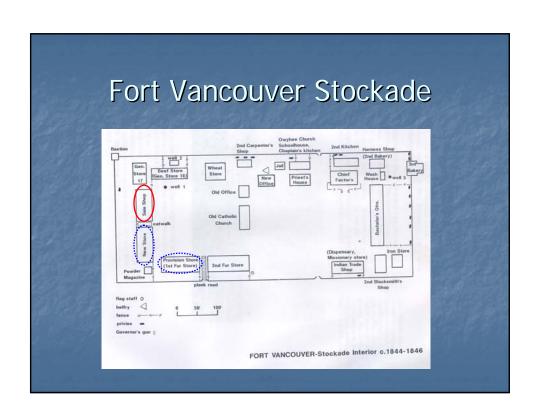
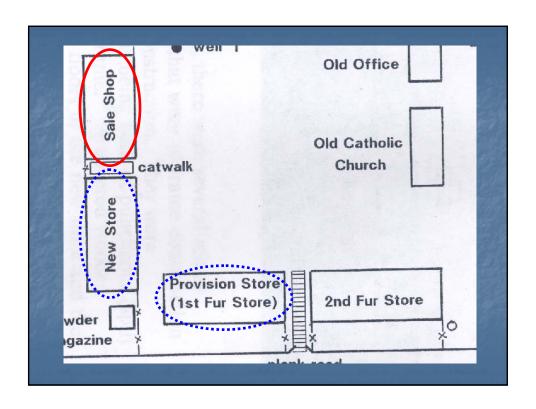


Purpose

- Fort Vancouver National Historic Site Reconstruction of Hudson Bay Company buildings
 - Directed sampling strategy using GIS
- Creating a spatial distribution model, applicable to unexcavated buildings
- Testing spatial distribution model through random sampling in new excavations







Sales Shop

- Built in 1840's, previous buildings existed on site
- Building size approximately 40 x 86 feet
- Partially dismantled by U.S. Army (1860) burned
- Only source for tobacco pipes and other supplements to Hudson Bay Company Employees' rations
- Previous excavations: Caywood, OAS, NPS, 2001

New Store

- Built in 1840's, previous buildings
- Building size approximately
 40 x 93 feet
- Partially dismantled by U.S. Army (1860)- burned
- Housed and sold imported goods for the fur trade
- Previous excavations: Caywood

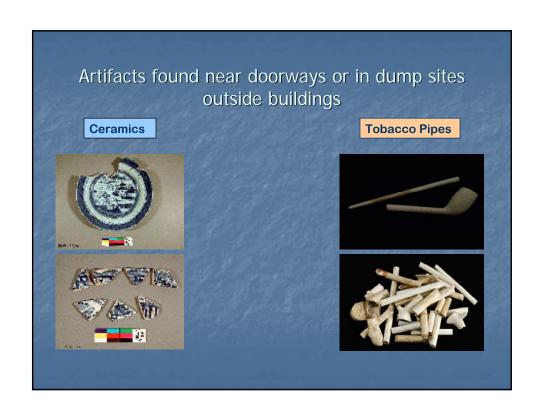
Receiving Store (1st Fur Store)

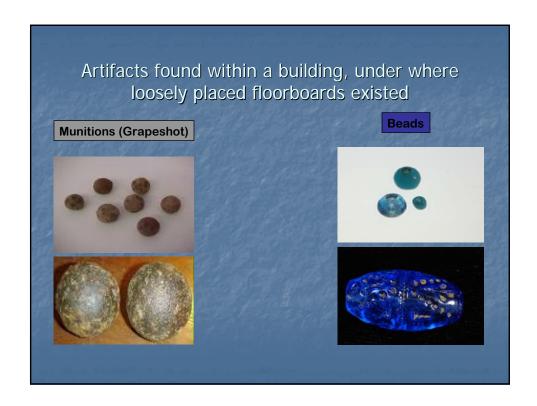
- Built in 1840's, previous buildings existed on site
- Building size approximately
 40 x 100 feet
- Partially dismantled by U.S. Army (1860)- burned
- Housed imported goods for the fur trade- supplied the New Store
- Previous excavations: Caywood



Similarities between Buildings

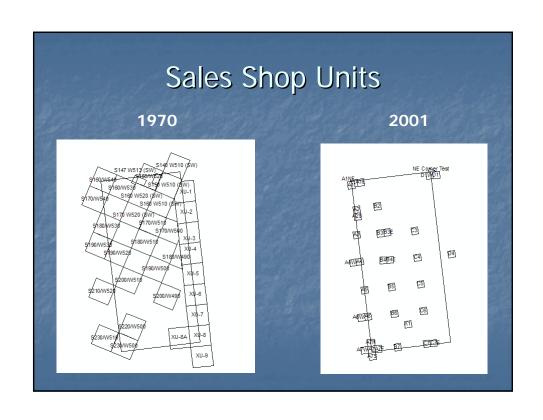
- These buildings were constructed in 1840's by HBC, demolished by US Army
- Buildings approximately 40 feet wide and between 86 and 100 feet in length
- All used to store and dispense goods
- Previous buildings on same site with similar uses

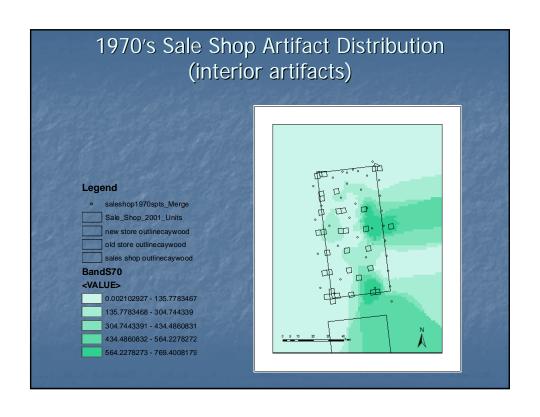


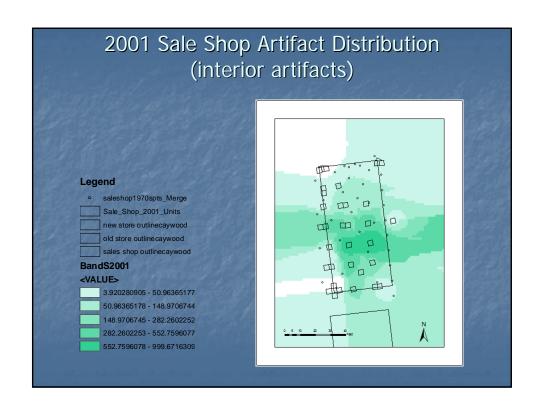


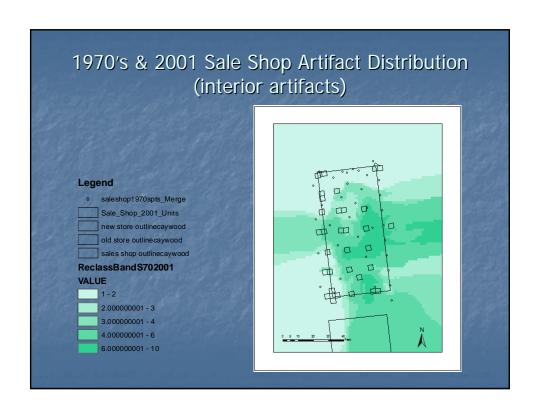
Methodology 1970's & 2000's

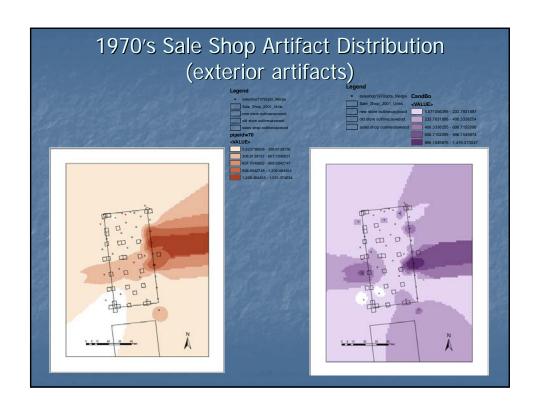
- Unit sizes and measurement systems vary.
- Excavation techniques change with time and conservation ideals.
- Large discrepancy in the numbers of artifacts.

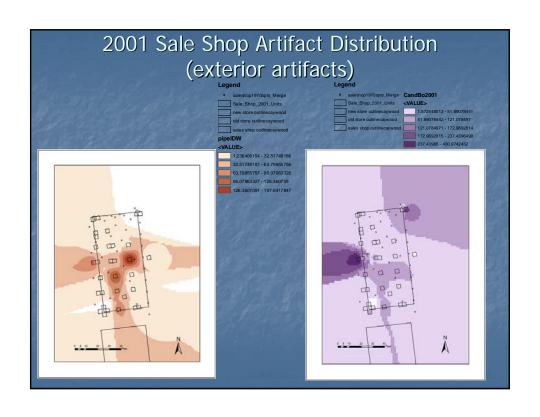


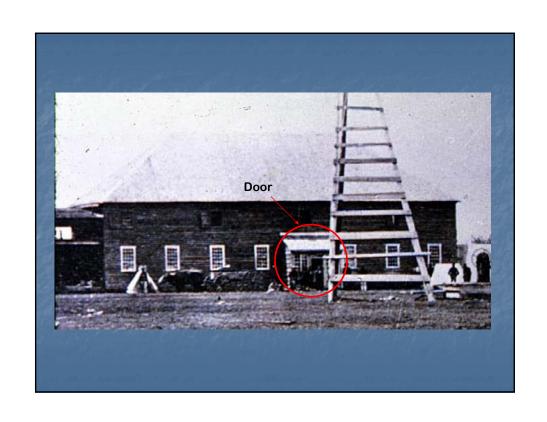


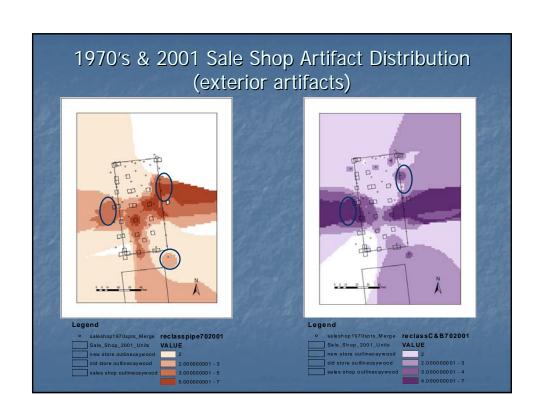


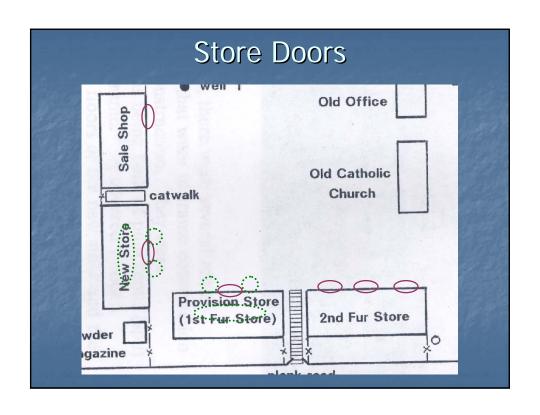






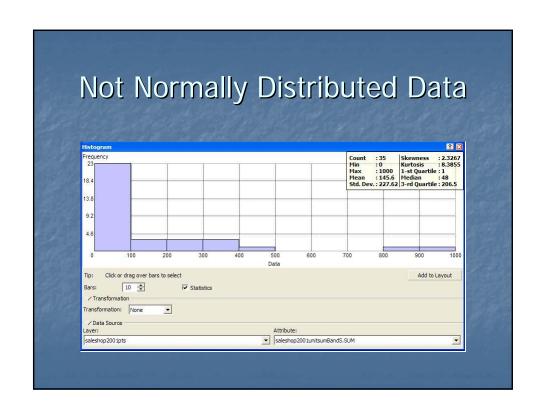


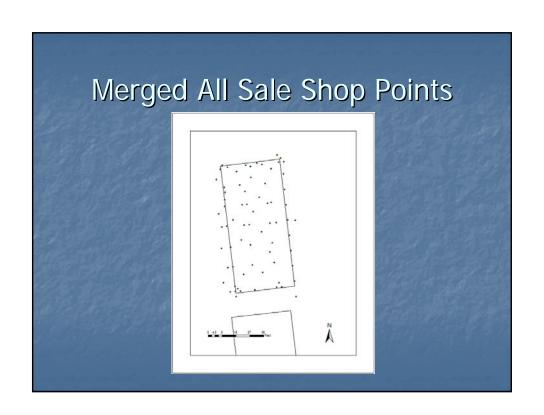


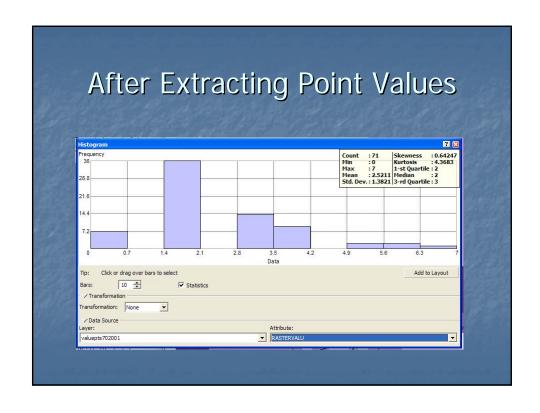


Conclusions

- There is a limitation to my knowledge of GIS and making it suit this purpose.
- I need to normalize or transform the data in a way that can be processed by GeoStatistical Analyst to create a workable model.







Limitations, further questions

- Data available
- Excavation Unit Size
- Physical Building Differences
- Statistics
- Data Analysis of Reclassified Data
- Further Study when excavations of new buildings occur.

Questions? Comments? Suggestions?

Sources

- Fort Vancouver National Historic Site,
 National Park Service, Department of the Interior
- Fort Vancouver National Historic Site Cultural Landscape Report: VI
- Fort Vancouver National Historic Site, Historic Structures Report: Historical Data V. 1