

# Expedition Greenland

Learning sustainability  
from the Vikings

## Norse Greenland: resources available in 985

Status	People	Cattle	Goats/ Sheep	Hunting	Walrus ivory	Iron tools
<b>High</b> ø29a	20	15	40	45	30	50
<b>Medium</b> V51 and ø71	10	7	30	19	10	20
<b>Low</b> V16, V53c, ø188	5	3	15	12	3	8

## The pattern of the year in Norse Greenland.

Activity	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb
Harp sealing												
Common sealing		breeding										
Caribou hunt												
Cattle herding	in cowsheds			grazing			in cowsheds					
Sheep & goat herding	in shelter		grazing					in shelter				
Cattle milk production												
Goat milk production												
Haymaking												

Common seal



## The pattern of the year in Norse Greenland.

Activity	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb
Harp sealing												
Common sealing		breeding										
Caribou hunt												
Cattle herding	in cowsheds			grazing			in cowsheds					
Sheep & goat herding	in shelter		grazing					in shelter				
Cattle milk production												
Goat milk production												
Haymaking												

# Caribou



CC: Penn State, Flickr.com



# Walrus



## **For the period to 1010**

Your strategy is initially based on the strategy in Iceland.

You use your scarce labour resources mainly for agriculture.



## **Farming and hunting to 1010**

### **Farming**

A year with average temperatures, so that you can continue your lifestyle from Iceland.

### **Hunting**

A reasonable season for caribou and seal hunting – you kill enough animals for your needs.

## **Trading to 1010**

You are able to trade large numbers of walrus tusks for luxury goods to improve the church and obtain iron tools. Your wealth is increased by the success of your trading.

# Results

High status farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	+1	+2	-	+2
Balanced	-	+1	+1	+3
Mostly hunting	-	-	+2	+3
Medium status farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-	+2	-	+1
Balanced	-	-	+1	+2
Mostly hunting	-	-	+1	+2
Low status farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-	+1	-	+1
Balanced	-	-	+1	+1
Mostly hunting	-	-	+1	+2
Exchange rate				
2 ivory → 1 tool				

## For the period up to the year 1035

What strategy do you choose?

- Mainly Agriculture
- A mixed approach
- Mainly Hunting

**Mostly  
farming**

**Balanced  
approach**

**Mostly  
hunting**

## **Farming and Hunting to 1035**

### **Farming**

A slightly wetter year with higher temperatures which produced sufficient availability of grass to feed the animals. There is hay fodder for all the cattle, goats and sheep in the winter.

### **Hunting**

A good summer means more wild grass for caribou – caribou numbers increase. There were not many problems while seal-hunting. The hunters returned with full boats.

The good weather and plentiful food results in an increase in the population.

## **Trading to 1035**

### **Trading**

2 ships from Norway arrived. Large numbers of walrus tusks traded for iron and wood to enable you to make iron tools, furniture and buildings. The ships also bring exotic foods and drinks such as wine, beer, nuts, and raisins.

# Results

High status farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	+2	+3	-	+2
Balanced	+1	+1	+1	+3
Mostly hunting	-	-	+2	+4
	Add 1 person to your population			
Medium status farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	+1	+3	-	+1
Balanced	-	+1	+1	+2
Mostly hunting	-	-	+2	+3
	Add 1 person to your population			
Low status farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	+1	+2	-	+1
Balanced	-	+1	+1	+2
Mostly hunting	-	-	+2	+3
	Add 1 person to your population			
Exchange rate				
2 ivory → 1 tool				



## For the period to 1060

What strategy do you choose?

- Mainly Agriculture
- A mixed approach
- Mainly Hunting

**Mostly  
farming**

**Balanced  
approach**

**Mostly  
hunting**

## **Farming and Hunting to 1060**

### **Farming**

Average temperatures provides plenty of grass as fodder for cattle.

### **Hunting**

A reasonable season for caribou and seal hunting.

## **Trading to 1060**

### **Trading**

You are able to trade large numbers of walrus tusks for luxury goods.

### **Other things to consider**

It is decided to build a new boat to improve the community's ability to trade and hunt.

# Results

Large farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	+1	+2	-	+2
Balanced	-	+1	+1	+3
Mostly hunting	-	-	+2	+3
	2 tools breaks.			
Medium farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-	+2	-	+1
Balanced	-	-	+1	+2
Mostly hunting	-	-	+1	+2
	1 tool breaks.			
Small farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-	-	-	-
Balanced	-	-	+1	-
Mostly hunting	-	-	+1	+1
	1 tool breaks. Poor results because you had to help build the boat			
Exchange rate				
2 ivory → 1 tool				

## For the period up to the year 1085

What strategy do you choose?

- Mainly Agriculture
- A mixed approach
- Mainly Hunting

**Mostly  
farming**

**Balanced  
approach**

**Mostly  
hunting**

## **Farming and Hunting to 1085**

### **Farming**

Average temperatures provides plenty of grass as fodder for cattle.

### **Hunting**

A reasonable season for caribou and seal hunting.

## **Trading to 1085**

### **Trading**

You are able to trade large numbers of walrus tusks for luxury goods for your farm and to obtain iron tools. You are able to purchase precious and rare textiles including the latest clothing styles from Europe. Your wealth is increased by the success of your trading.



# Results

Large farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	+1	+2	-	+2
Balanced	-	+1	+1	+3
Mostly hunting	-	-	+2	+3
	1 tool breaks.			
Medium farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-	+2	-	+1
Balanced	-	-	+1	+2
Mostly hunting	-	-	+1	+2
	1 tool breaks			
Small farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-	+1	-	+1
Balanced	-	-	+1	+1
Mostly hunting	-	-	+1	+2
Exchange rate				
2 ivory → 1 tool				

## For the period up to the year 1110

What strategy do you choose?

- Mainly Agriculture
- A mixed approach
- Mainly Hunting

**Mostly  
farming**

**Balanced  
approach**

**Mostly  
hunting**

## **Farming and hunting to 1110**

### **Farming**

It was a cold period. The pasture has not grown well and you struggled to get the hay fodder for all your cattle, goats and sheep in the winter. Distant pastures can't be used due to snow. However, you provide some of your surplus fodder from the previous year to help out the lower status farms.

### **Hunting**

Seal hunting was difficult due to storms. You obtained a reasonable quantity of seals, but men were lost in a shipwreck. The hunt for walrus ivory was successful.

## **Trading to 1110**

### **Trading**

Storms and drift ice prevented ships from Norway reaching Greenland.

# Results

Large farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-4	-4	-4	0
Balanced	-5	-4	-3	0
Mostly hunting	-5	-4	-2	+1
	2 men lost in shipwreck. 4 tools break.			
Medium farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-3	-3	-4	0
Balanced	-3	-3	-3	0
Mostly hunting	-4	-3	-2	+1
	1 man lost in shipwreck. 3 tools break.			
Small farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-2	-2	-4	0
Balanced	-2	-2	-3	0
Mostly hunting	-2	-2	-2	0
	1 man lost in shipwreck. 2 tools break.			
Exchange rate				
2 ivory → 1 tool				

## For the period up to the year 1135

What strategy do you choose?

- Mainly Agriculture
- A mixed approach
- Mainly Hunting

**Mostly  
farming**

**Balanced  
approach**

**Mostly  
hunting**



## **Farming and Hunting to 1135**

### **Farming**

Average temperatures provides plenty of grass as fodder for cattle.

### **Hunting**

A reasonable season for caribou and seal hunting.

## **Trading to 1135**

### **Trading**

You are able to trade large numbers of walrus tusks for luxury goods to improve the church and obtain iron tools. You have sufficient money to buy precious and rare metals (silver, bronze, copper, lead) from the traders. Your wealth is increased by the success of your trading.

# Results

Large farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	+1	+2	-	+2
Balanced	-	+1	+1	+3
Mostly hunting	-	-	+2	+3
	2 tools break.			
Medium farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-	+2	-	+1
Balanced	-	-	+1	+2
Mostly hunting	-	-	+1	+2
	1 tool breaks.			
Small farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-	+1	-	+1
Balanced	-	-	+1	+1
Mostly hunting	-	-	+1	+2
	1 tool breaks.			
Exchange rate				
2 ivory → 1 tool				

## For the period up to the year 1160

What strategy do you choose?

- Mainly Agriculture
- A mixed approach
- Mainly Hunting

**Mostly  
farming**

**Balanced  
approach**

**Mostly  
hunting**

## **Farming and hunting to 1160**

### **Farming**

Average temperatures provides plenty of grass as fodder for.

### **Hunting**

A reasonable season for caribou and seal hunting.

## **Trading to 1160**

### **Trading**

You are able to trade large numbers of walrus tusks for luxury goods for your farm and to obtain iron tools. Your wealth is increased by the success of your trading.

## **Other things to consider**

A new bishop of Greenland arrives (1153) bringing a range of luxury products which benefit the wealthier farmers. But insists that all groups pay their tithes. How will this affect your farm?

# Results

Large farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	+1	+2	-	+2
Balanced	-	+1	+1	+3
Mostly hunting	-	-	+2	+3
	2 tools break. Pay 2 ivory of tax for the bishop.			
Medium farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-	+2	-	+1
Balanced	-	-	+1	+2
Mostly hunting	-	-	+1	+2
	1 tool breaks. Pay 1 ivory of tax for the bishop.			
Small farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-	-	-1	-
Balanced	-	-	-	+1
Mostly hunting	-	-	+1	+1
	1 tool breaks. Pay 1 ivory of tax for the bishop. Poor results due to having to help build the boat.			
Exchange rate				
2 ivory → 1 tool				



## For the period up to the year 1185

What strategy do you choose?

- Mainly Agriculture
- A mixed approach
- Mainly Hunting

**Mostly  
farming**

**Balanced  
approach**

**Mostly  
hunting**

## Farming and hunting to 1185

**Farming** A volcanic eruption (Krafla in the north of Iceland - AD 1179) triggers a 20 year period with highly varied climate and very cold summers. The pasture has not grown well and you struggled to get the hay fodder for your cattle, goats and sheep in the winter. Distant pastures can't be used due to snow.

**Hunting** Seal hunting was difficult due to storms. You obtained a reduced quantity of seals. The hunt for walrus ivory was successful.

## Trading to 1185

### Trading

Storms and drift ice prevented ships from Norway reaching Greenland.

A ship arrived in Iceland from Greenland and it was noted with some astonishment that the ship was held together with wooden rivets and sinew. This perhaps indicates that the Greenlanders were already facing iron shortages, but were adapting by replacing iron with wood and other materials. The same ship, on its outward journey was wrecked the following year, with the loss of 10 men.

# Results

Large farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-4	-5	-4	0
Balanced	-5	-5	-3	0
Mostly hunting	-5	-5	-2	+1
	2 men lost in shipwreck. 4 tools break.			
Medium farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-3	-4	-4	0
Balanced	-3	-4	-3	0
Mostly hunting	-4	-4	-2	+1
	1 man lost in shipwreck. 3 tools break.			
Small farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-2	-3	-4	0
Balanced	-2	-3	-3	0
Mostly hunting	-2	-3	-2	0
	1 man lost in shipwreck. 2 tools break.			
Exchange rate				
no trade possible				

## For the period up to the year 1210

What strategy do you choose?

- Mainly Agriculture
- A mixed approach
- Mainly Hunting

**Mostly  
farming**

**Balanced  
approach**

**Mostly  
hunting**

## **Farming and Hunting to 1210**

### **Farming**

A slightly wetter and quite warm year which produced sufficient availability of grass to feed the animals and you have hay fodder for all your cattle, goats and sheep in the winter.

### **Hunting**

A good summer means more wild grass for caribou – caribou numbers increase. There were not many problems while seal-hunting, so that the hunters returned with full boats. The voyage for walrus ivory was successful and the hunters came home with many valuable goods.

## **Trading to 1210**

### **Trading**

2 ships from Norway arrived. Walrus tusks were traded for iron and wood to enable you to make iron tools, furniture and buildings.

# Results

Large farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	+2	+3	-	+2
Balanced	+1	+1	+1	+3
Mostly hunting	-	-	+2	+4
Medium farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	+1	+3	-	+1
Balanced	-	+1	+1	+2
Mostly hunting	-	-	+2	+3
Small farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	+1	+2	-	+1
Balanced	-	+1	+1	+2
Mostly hunting	-	-	+2	+3
Exchange rate				
3 ivory → 1 tool				

## For the period up to the year 1235

What strategy do you choose?

- Mainly Agriculture
- A mixed approach
- Mainly Hunting

**Mostly  
farming**

**Balanced  
approach**

**Mostly  
hunting**

## **Farming and hunting to 1235**

### **Farming**

A warm summer produces sufficient availability of grass to feed the animals and you have hay fodder for all your cattle, goats and sheep in the winter.

### **Hunting**

The good summer means more wild grass for caribou – caribou numbers increase. There were not many problems while seal-hunting. The hunters returned with full boats. The voyage for walrus ivory was successful and the hunters came home with many valuable goods.

The extended period of good weather and plentiful food results in a small increase in population as new settlers arrive from Norway.

## **Trading to 1235**

Inuit hunters passed by. You were able to exchange some goods for ivory.

### **Trading**

2 ships from Norway arrived. Large numbers of walrus tusks traded for iron and wood to enable you to make iron tools, furniture and buildings.



# Results

Large farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	+2	+3	-	+2
Balanced	+1	+1	+1	+3
Mostly hunting	-	-	+2	+4
	2 new arrivals on the farm. Add 2 ivory due to trade with the Inuit.			
Medium farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	+1	+3	-	+1
Balanced	-	+1	+1	+2
Mostly hunting	-	-	+2	+3
	1 new arrival on the farm. Add 2 ivory due to trade with the Inuit.			
Small farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	+1	+2	-	+1
Balanced	-	+1	+1	+2
Mostly hunting	-	-	+2	+3
	1 new arrival on the farm. Add 1 ivory due to trade with the Inuit.			
Exchange rate				
2 ivory → 1 tool				

## For the period up to the year 1260

What strategy do you choose?

- Mainly Agriculture
- A mixed approach
- Mainly Hunting

**Mostly  
farming**

**Balanced  
approach**

**Mostly  
hunting**

## **Farming and hunting to 1260**

### **Farming**

It was a cold period. The pasture has not grown well in summer and you struggled to get the hay fodder for all your cattle, goats and sheep in the winter. Distant pastures can't be used due to snow.

### **Hunting**

Seal hunting was difficult due to storms. You obtained a reasonable quantity of seals, but men were lost in a shipwreck.

The hunt for walrus ivory was successful.

## **Trading to 1260**

### **Trading**

Storms and drift ice prevented ships from Norway reaching Greenland.

A boat bound for Greenland wrecked with 40 souls lost. Harsh weather has resulted in greatly increased infant mortality.

# Results

Large farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-4	-5	-4	0
Balanced	-4	-5	-3	0
Mostly hunting	-4	-5	-2	+1
	2 men lost in shipwreck. 4 tools breaks.			
Medium farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-3	-4	-4	0
Balanced	-3	-4	-3	0
Mostly hunting	-3	-4	-2	+1
	1 man lost in shipwreck. 3 tools breaks.			
Small farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-2	-3	-4	0
Balanced	-2	-3	-3	0
Mostly hunting	-2	-2	-2	0
	1 man lost in shipwreck. 2 tools breaks.			
Exchange rate				
no trade possible				

## For the period up to the year 1285

What strategy do you choose?

- Mainly Agriculture
- A mixed approach
- Mainly Hunting

**Mostly  
farming**

**Balanced  
approach**

**Mostly  
hunting**

## **Farming and hunting to 1285**

### **Farming**

A cold summer means poor quality pasture. You struggled to get the hay fodder needed for all your cattle, goats and sheep in the winter. Distant pastures can't be used due to snow.

### **Hunting**

Seal hunting was difficult due to storms. You obtained a reasonable quantity of seals, but men were lost in a shipwreck.

The hunt for walrus ivory was successful.

Continuing harsh weather means infant mortality is high.

## **Trading to 1285**

### **Trading**

Storms and drift ice prevented ships from Norway reaching Greenland.

# Results

Large farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-4	-5	-4	0
Balanced	-4	-5	-3	0
Mostly hunting	-4	-5	-2	+1
	3 children die due to malnutrition. 5 tools break.			
Medium farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-3	-4	-4	0
Balanced	-3	-4	-3	0
Mostly hunting	-3	-4	-2	0
	2 children die due to malnutrition. 4 tools breas.			
Small farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-2	-3	-4	0
Balanced	-2	-3	-3	0
Mostly hunting	-2	-2	-2	0
	1 child dies due to malnutrition. 3 tools break.			
Exchange rate				
no trade possible				

## For the period up to the year 1310

What strategy do you choose?

- Mainly Agriculture
- A mixed approach
- Mainly Hunting

**Mostly  
farming**

**Balanced  
approach**

**Mostly  
hunting**



## **Farming and hunting to 1310**

### **Farming**

Average temperatures provides plenty of grass as fodder for cattle.

### **Hunting**

A reasonable season for caribou but seal hunting was difficult due to sea ice and storms.

## **Trading to 1310**

### **Trading**

The frequency and size of storms in the North Atlantic increase.

Limited contact with Europe as a result of the increased storminess of the North Atlantic.

The price of walrus ivory has collapsed (traders no longer want to buy it) – people in Europe are buying elephant ivory instead. How will this affect your farm?

# Results

Large farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	+1	+2	-1	+2
Balanced	-	+1	-	+3
Mostly hunting	-	-	-	+3
	3 tools breaks due to their age.			
Medium farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-	+2	-1	+1
Balanced	-	-	-	+2
Mostly hunting	-	-	-	+2
	2 tools breaks due to their age.			
Small farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-	+1	-1	+1
Balanced	-	-	-	+1
Mostly hunting	-	-	-	+2
	1 tools breaks due to their age.			
Exchange rate				
4 ivory → 1 tool. There are a maximum of 16 buys ivory. The high status farms trade first.				

## For the period up to the year 1335

What strategy do you choose?

- Mainly Agriculture
- A mixed approach
- Mainly Hunting

**Mostly  
farming**

**Balanced  
approach**

**Mostly  
hunting**

## **Farming and hunting to 1335**

### **Farming**

Average temperatures provides plenty of grass as fodder for cattle.

### **Hunting**

A reasonable season for caribou and seal hunting – you kill enough animals for your needs.

## **Trading to 1335**

### **Trading**

Limited demand for walrus ivory – no trading takes place.

## **Other things to consider**

An outbreak of influenza badly affects the amount of work that can be carried out on the farm.

# Results

Large farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-	+1	-	+2
Balanced	-	+1	+1	+2
Mostly hunting	-	-	+2	+3
	3 tools breaks. Bad results due to a lack of labour because of disease.			
Medium farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-	-	-	+1
Balanced	-	-	+1	+1
Mostly hunting	-	-	+1	+2
	2 tools breaks. Bad results due to a lack of labour because of disease.			
Small farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-	-	-1	+1
Balanced	-	-1	-	+1
Mostly hunting	-	-1	+1	+2
	2 tools breaks. Bad results due to a lack of labour because of dieease.			
Exchange rate				
Limited demand for ivory. No trading.				

## For the period up to the year 1360

What strategy do you choose?

- Mainly Agriculture
- A mixed approach
- Mainly Hunting

**Mostly  
farming**

**Balanced  
approach**

**Mostly  
hunting**

## Farming and hunting to 1360

### Farming

It was a cold period. The pasture has not grown well and you struggled to get the hay fodder needed for all your cattle, goats and sheep in the winter. Distant pastures can't be used due to snow.

### Hunting

Seal hunting was difficult due to storms and sea ice. You obtained a reasonable quantity of seals, but men were lost in a shipwreck.

The hunt for walrus ivory was successful. But, the failure to trade walrus ivory for iron means tools beginning to wear out reducing the effectiveness of the hunting.

## Trading to 1360

**Trading** Sea Ice between Greenland and Iceland has increased. Storms and drift ice prevented ships from Norway reaching Greenland. No demand for walrus ivory – no trading takes place.

# Results

Large farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-4	-5	-4	0
Balanced	-4	-5	-5	0
Mostly hunting	-4	-5	-6	0
	2 men lost in shipwreck. 5 tools break as they became worn out.			
Medium farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-3	-4	-3	0
Balanced	-3	-4	-4	0
Mostly hunting	-4	-4	-5	0
	1 men lost in shipwreck. 4 tools break as they became worn out.			
Small farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-2	-3	-3	0
Balanced	-2	-3	-4	0
Mostly hunting	-3	-4	-5	0
	1 men lost in shipwreck. 3 tools break as they became worn out.			
Exchange rate				
no trade possible				



## For the period up to the year 1385

What strategy do you choose?

- Mainly Agriculture
- A mixed approach
- Mainly Hunting

**Mostly  
farming**

**Balanced  
approach**

**Mostly  
hunting**

## **Farming and hunting to 1385**

### **Farming**

An average year with plenty of grass available as fodder for grazing.

### **Hunting**

A reasonable season for caribou. The seal hunting could not take place as usual, due to an Inuit attack. The lack of food supplies could not be compensated during the year.

## **Trading to 1385**

### **Trading**

The easier and cheaper access to elephant ivory from Asia means that walrus ivory is no longer of any value and cannot be traded for tools. However, one trading boat does arrive from Iceland.

## **Other things to consider**

Inuit attack the Greenlanders, killing 18 men and capturing two boys.

No new bishop appointed after the last one dies.

Two younger people on the farm decide to leave on the boat that arrives from Norway in the hope of achieving a better life.

# Results

Large farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-	+1	-	+2
Balanced	-	-	-	+2
Mostly hunting	-	-	-2	+3
	4 tools break. 2 deaths and bad hunting as a result of the Inuit attack.			
Medium farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-	-	-	+1
Balanced	-	-	-	+1
Mostly hunting	-	-	-1	+2
	3 tools break. 2 deaths and bad hunting as a result of the Inuit attack.			
Small farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-	-	-	-
Balanced	-	-1	-	+1
Mostly hunting	-	-1	-1	+2
	2 tools break. 1 death and bad hunting as a result of the Inuit attack.			
Exchange rate				
6 ivory → 1 tool, only 12 pieces of ivory are bought, high status farms exchange first				

## For the period up to the year 1410

What strategy do you choose?

- Mainly Agriculture
- A mixed approach
- Mainly Hunting

**Mostly  
farming**

**Balanced  
approach**

**Mostly  
hunting**

## **Farming and hunting to 1410**

### **Farming**

It was a cold period. The pasture has not grown well and you struggled to get the hay fodder needed for all your livestock for the winter. Distant pastures can't be used due to snow.

### **Hunting**

Seal hunting was difficult due to storms. You obtained a reasonable quantity of seals, but men were lost in a shipwreck. The failure to trade walrus ivory for iron means tools continue to wear out reducing the effectiveness of the hunting.

## **Trading to 1410**

### **Trading**

Merchants from the Baltic countries now dominate Norwegian trade and their ships are poorly suited for journeys across the Atlantic to Greenland. The easier and cheaper access to elephant ivory from Asia means that walrus ivory is no longer of any value and cannot be traded for tools.

### **Other things to consider**

The community is now almost completely isolated from the rest of the world. Boats no longer visit to trade. Everything the community needs must be produced in Greenland.

# Results

Large farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-4	-5	-4	0
Balanced	-4	-5	-5	0
Mostly hunting	-4	-6	-6	0
	2 men lost in shipwreck. 5 tools break.			
Medium farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-3	-4	-3	0
Balanced	-3	-4	-4	0
Mostly hunting	-4	-5	-5	0
	1 men lost in shipwreck. 4 tools break.			
Small farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-2	-3	-3	0
Balanced	-2	-3	-4	0
Mostly hunting	-3	-4	-5	0
	1 men lost in shipwreck. 3 tools break.			
Exchange rate				
no trade possible				

## For the period up to the year 1435

What strategy do you choose?

- Mainly Agriculture
- A mixed approach
- Mainly Hunting

**Mostly  
farming**

**Balanced  
approach**

**Mostly  
hunting**

## Farming and hunting to 1435

**Farming** A cold period. The pasture has not grown well and you struggled to get the hay fodder needed for all your livestock for the winter. Distant pastures can't be used due to snow.

**Hunting** Seal hunting was difficult due to storms. You obtained a reasonable quantity of seals, but men were lost in a shipwreck. The failure to trade walrus ivory for iron means tools continue to wear out reducing the effectiveness of the hunting.

## Trading to 1435

**Trading** Merchants from the Baltic countries now dominate Norwegian trade and their ships are poorly suited for journeys across the Atlantic to Greenland. The easier and cheaper access to elephant ivory from Asia means that walrus ivory is no longer of any value.

## Other things to consider

No babies have been born in the last 10 years. 2 elderly members of the family die. The absence of any boats arriving from Iceland and Norway means you do not have the option of migrating.



# Results

Large farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-4	-5	-4	0
Balanced	-4	-6	-5	0
Mostly hunting	-4	-6	-6	0
	1 man lost in shipwreck, 2 deaths due to malnutrition. 6 tools break.			
Medium farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-3	-4	-3	0
Balanced	-3	-4	-4	0
Mostly hunting	-4	-4	-5	0
	1 man lost in shipwreck, 1 death due to malnutrition. 5 tools break.			
Small farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-2	-3	-3	0
Balanced	-2	-3	-4	0
Mostly hunting	-3	-4	-5	0
	1 man lost in shipwreck, 1 death to malnutrition. 4 tools break.			
Exchange rate				
no trade possible				

## For the period up to the year 1460

What strategy do you choose?

- Mainly Agriculture
- A mixed approach
- Mainly Hunting

**Mostly  
farming**

**Balanced  
approach**

**Mostly  
hunting**

## **Farming and hunting to 1460**

### **Farming**

A cold period. The pasture has not grown well and you struggled to get the hay fodder needed for all your livestock for the winter. Distant pastures can't be used due to snow.

### **Hunting**

Seal hunting was difficult due to storms. The community could no longer support a collective effort for hunting.

## **Trading to 1460**

### **Trading**

No trade.

### **Other things to consider**

The community is completely isolated. No known archaeological records after 1450.

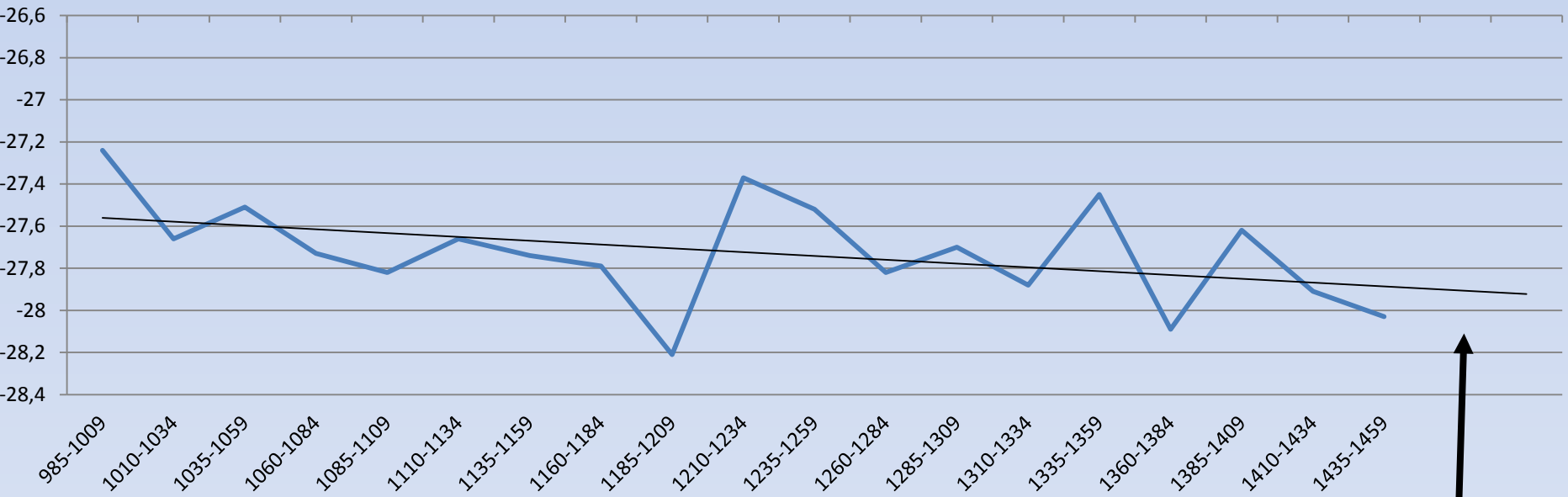
# Results

Large farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-4	-5	-4	0
Balanced	-4	-6	-5	0
Mostly hunting	-4	-6	-6	0
	3 die due to starvation. 6 tools break.			
Medium farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-3	-4	-3	0
Balanced	-3	-4	-4	0
Mostly hunting	-4	-4	-5	0
	2 die due to starvation. 5 tools break.			
Small farms				
	Cattle	Goats/sheep	Hunting	Walrus ivory
Mostly farming	-2	-3	-3	0
Balanced	-2	-3	-4	0
Mostly hunting	-3	-4	-5	0
	2 die due to starvation. 4 tools break.			
Exchange rate				
no trade possible				

# **Critical reflection relating to the preceding period**

- What kinds of adjustments did you have to make?
- What sorts of problems did you face?
- To what extent were factors within your control, or beyond your control?

# Overview



Weather for farming and hunting																			
A	W	A	A	C	A	A	C	W	W	C	C	A	A	C	A	C	C	C	
Number of boats from Iceland/Norway																			
3	2	2	2	0	3	2	0	2	2	0	0	0	0	0	1	0	0	0	