

# Analysing Historic Overland Trade Routes From The Port Of Southampton During The Middle Ages

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# Background

- Southampton Brokage Books 1430-1540
- Destinations of goods, not origins
- Unique to Southampton
- Best known records of inland trade in England for this period



# Previous work

- One-off snapshots
- Well known *routes* (Silk Road, spice routes)
- In the UK, very local studies (e.g. Exeter)
- Other isolated studies (River Tyne - Coal)
- Some work on Southampton Brokage books



- Bunyard (1941) - 1439-40
- Coleman (1961) - 1443-44
- Lewis (1993) - 1448-49
- Olding (1980) - 1477-78
- Stevens (1985) – 1527-28

# Previous Work

OWTRAD Dataset: tmcCZm0800.html - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://www.ciolek.com/OWTRAD/DATA/tmcCZm0800.html

Customize Links Free Hotmail Windows Media Windows Contact.BabyKind /staff/ /staff/ Micalite fastfold buggy...

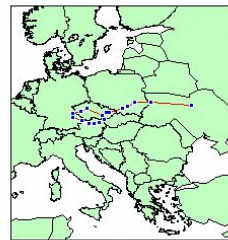
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**Old World Trade Routes (OWTRAD):  
Central European trade routes in 9th c. CE**

[Dr T. Matthew Ciolek](#), Research School of Pacific and Asian Studies,  
Australian National University, Canberra ACT 0200, Australia  
tmciolek@coombs.anu.edu.au  
<http://www.ciolek.com/PEOPLE/ciolek-tm.html>

Dataset created: 1 Oct 2000. Last up

Map 5  
Energy "Silk Route" from Central Asia



Contents of the dataset tmcCZ

This document contains a [dataset](#) belonging to the [Old W](#)

Metadata [DublinCore] descri

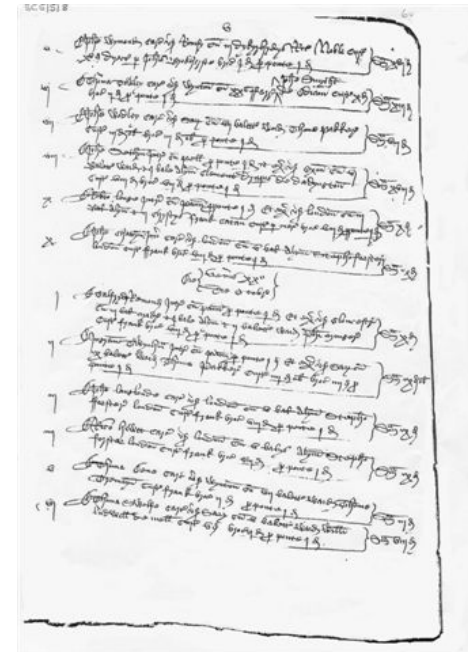
dc.title	Central European trade routes in the 9th c. CE
dc.creator.PersonalName	T. Matthew Ciolek
dc.creator.PersonalName.Address	RSPAS, The Australian National University, Canberra, Australia [tmciolek]
dc.subject	trade routes
dc.subject	methodology
dc.subject	historical data
dc.subject	historical maps
dc.subject	cultural data



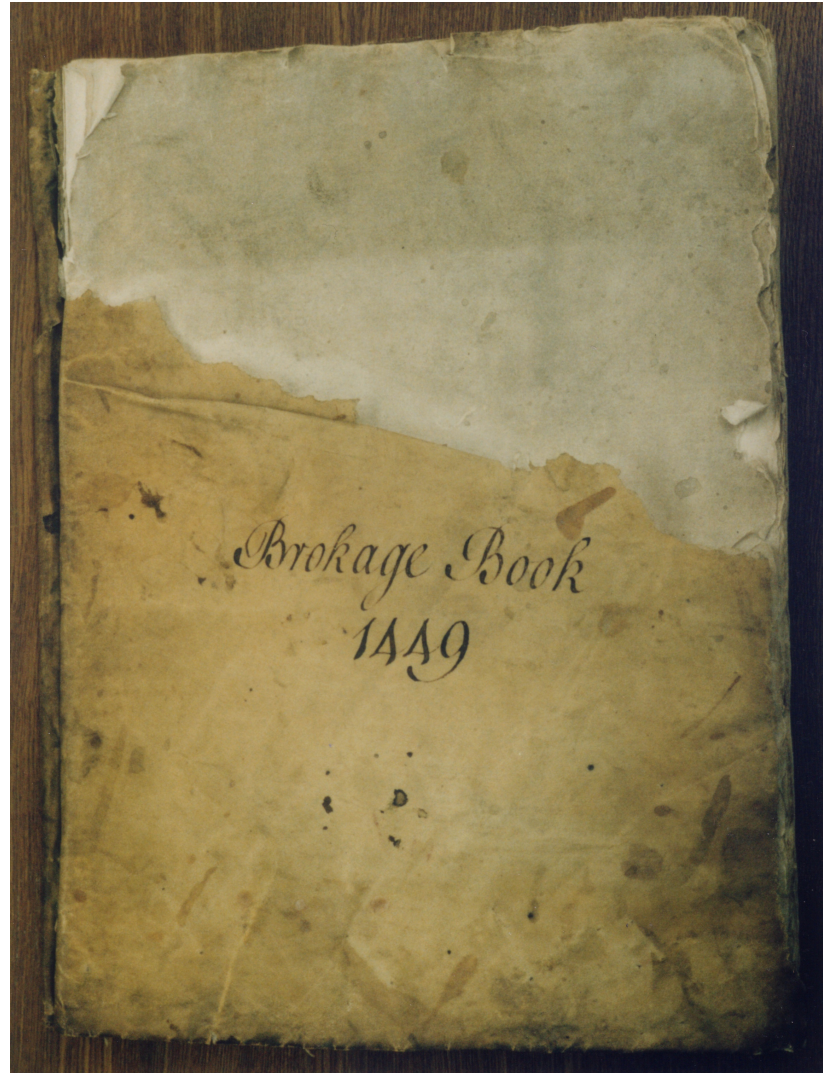
Source: IEA and National Pipeline Research Society of Japan



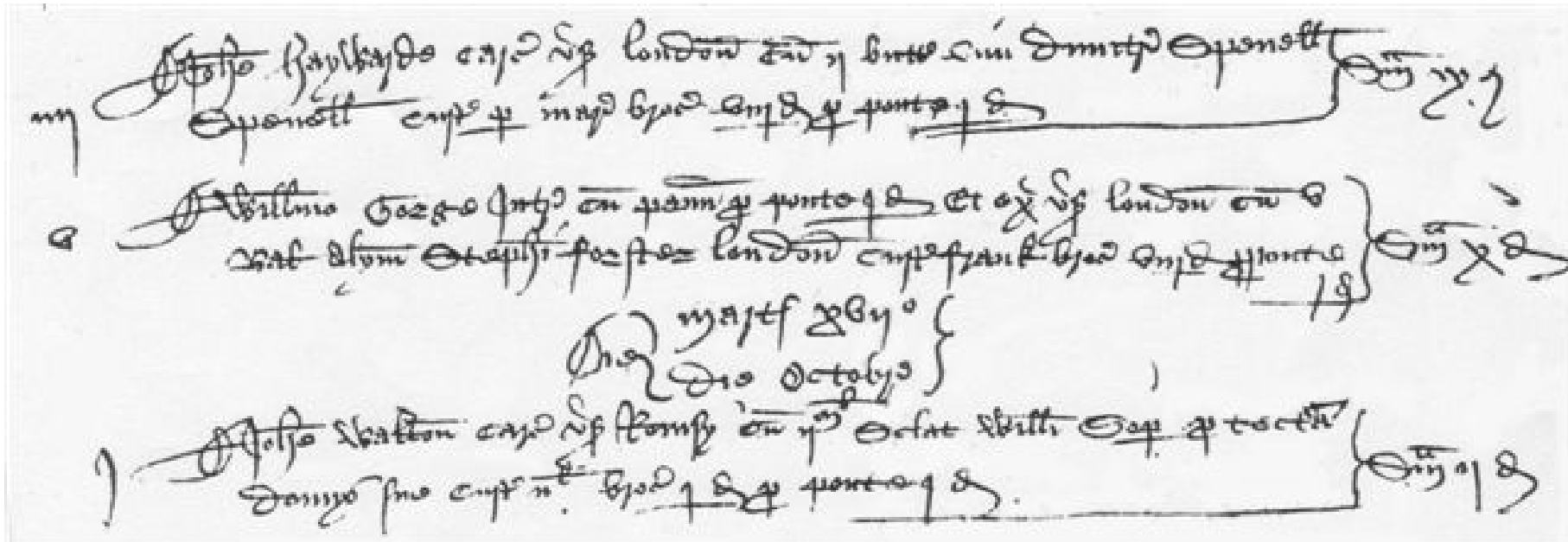
# The Bargate



# Southampton Brokage Book



# The Raw data



John Haywarde carting towards London with 2 butts of wine for Demetrious Spinnelli, custom paid at sea, brokage 8 pence and pontage a penny total = 9 pence.

William George entering with cloth, pontage 1 penny and leaving towards London with 5 bales of alum for Stephen Forster of London, custom free, brokage 8 pence, pontage 1 penny (out /in) total = 10 pence

Tuesday 17th day of October

John Walton carting towards Romsey with 2,000 slates for William Soper for the roof of his house. Custom nil, brokage 1 penny, pontage 1 penny, sum total tuppence.

# The Inland Trade Database

- Investigate the possibility of creating a searchable database from the Southampton Brokage books
- Retain as much of the original document as possible in a form which enabled quantities and other information to be compared in a consistent manner.
- Produce a public version





# Challenges

- Language and hand
- Standardisation of names
- Quantification of weights and measures
  - barrel = 32 gallons
  - hogshead = 63 gallons
  - pipes = 126 gallons
  - butts = 126 gallons
  - dolios = 252 gallons)

- 
- Duplication of commodity quantities due to multiple carters in a group

# Database Construction

Microsoft Access

File Edit View Insert Format Records Tools Window Help

tbCommodities : Table

comCd	Shipment	Item	Sub category	Category	Designate	Num	Numb	Custom	Good	Goods	Recip	Own	pr
3649	29.11f6	wine non specific	wine	consumables beverages	gallon	252	0	No	es	No	1940	No	
3654	29.11f10	wine non specific	wine	consumables beverages	gallon	192	0	No	es	No		No	6 barrels
3660	29.11v3	wine non specific	wine	consumables beverages	gallon	252	0	No	es	No	1944	No	1 dolium wine
3662	29.11v5	wine non specific	wine	consumables beverages	gallon	126	0	No	es	No	1945	No	
3664	29.11v7	wine non specific	wine	consumables beverages	gallon								
3673	29.12r1	wine non specific	wine	consumables beverages	gallon								
3675	29.12r3	wine non specific	wine	consumables beverages	gallon								
3676	29.12r4	wine non specific	wine	consumables beverages	gallon								
3680	29.12f8	wine non specific	wine	consumables beverages	gallon								
3683	29.12v1	wine non specific	wine	consumables beverages	gallon								
3684	29.12v2	wine non specific	wine	consumables beverages	gallon								
3685	29.12v3	wine non specific	wine	consumables beverages	gallon								
3687	29.12v5	wine non specific	wine	consumables beverages	gallon								
3689	29.12v7	wine non specific	wine	consumables beverages	gallon								
3695	29.13r3	wine non specific	wine	consumables beverages	gallon								
3702	29.13f8	wine non specific	wine	consumables beverages	gallon								
3705	29.13v1	wine non specific	wine	consumables beverages	gallon								
3712	29.13v6	wine non specific	wine	consumables beverages	gallon								
3721	29.14r1	wine non specific	wine	consumables beverages	gallon								
3723	29.14r3	wine non specific	wine	consumables beverages	gallon								
3733	29.14r10	wine non specific	wine	consumables beverages	gallon								
3734	29.14v1	wine non specific	wine	consumables beverages	gallon								
3735	29.14v2	wine non specific	wine	consumables beverages	gallon								
3740	29.14v7	wine non specific	wine	consumables beverages	gallon								
3741	29.14v8	wine non specific	wine	consumables beverages	gallon								
3742	29.14v9	wine non specific	wine	consumables beverages	gallon								
3743	29.14v10	wine non specific	wine	consumables beverages	gallon								
3753	29.16v2	wine non specific	wine	consumables beverages	gallon								
3756	29.16v5	wine non specific	wine	consumables beverages	gallon								
3758	29.16v7	wine non specific	wine	consumables beverages	gallon								
3761	29.16v9	wine non specific	wine	consumables beverages	gallon								
3765	29.17r3	wine non specific	wine	consumables beverages	gallon								
3766	29.17r4	wine non specific	wine	consumables beverages	gallon								
3768	29.17r6	wine non specific	wine	consumables beverages	gallon								

Records: 1 of 4408

Microsoft Access

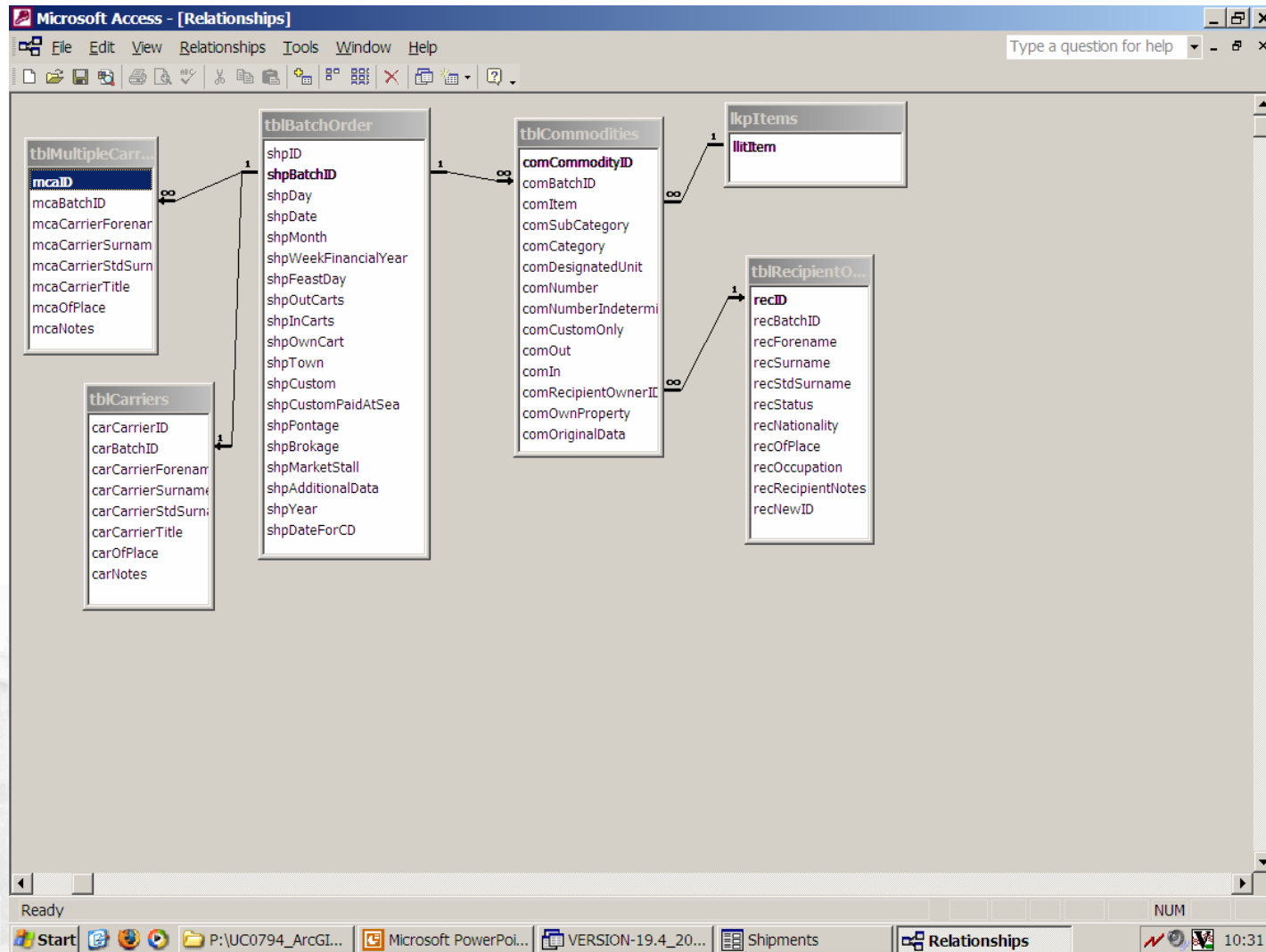
File Edit View Insert Format Records Tools Window Help

tbCarriers : Table

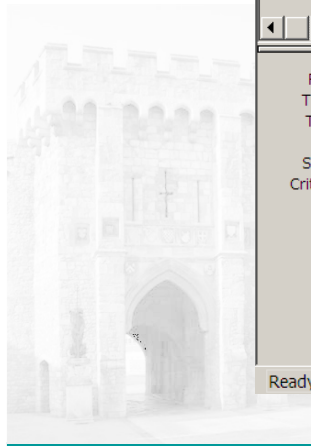
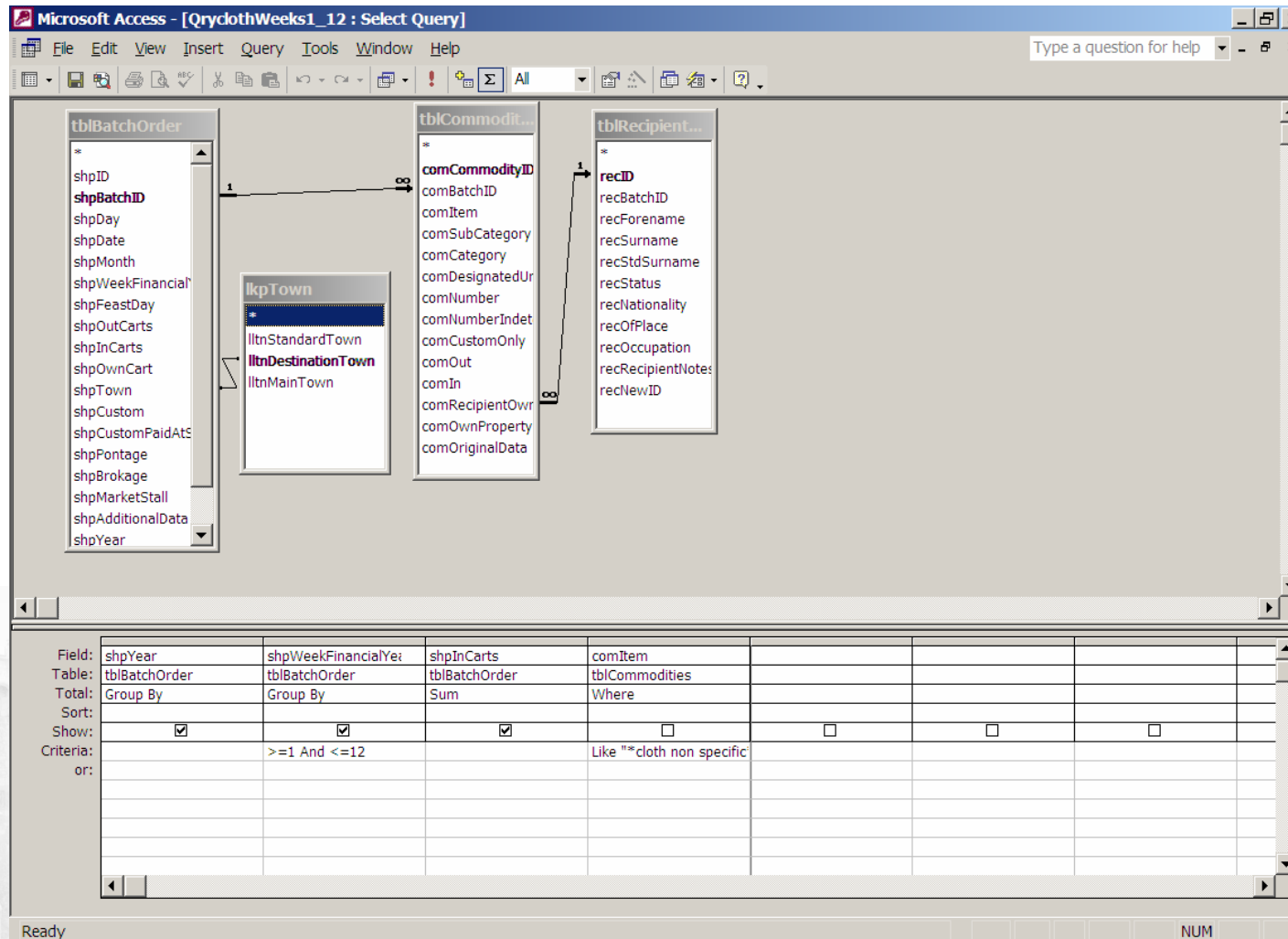
carCarrierID	Shipment ID	Forename	Surname	Standard surname	Title	Of place	Notes
+	1055 8.48r4	John	Stobbrygge	Stobbrygge			
+	1203 8.54v7 a	John	Mersche	Mersche			
+	747 8.35f3d	John	Hardwareman	Hardwareman			4 days showing
+	1204 8.54v8	John	Twynham	Twynham			
+	760 8.35v4	John	Walton	Walton	junior		Walton junior
+	1917 8.92v6	John	Olyffe	Olyffe			
+	746 8.35f3c	John	Burgeyse	Burgeyse			
+	1934 8.93v4	John	Hoker	Hokere			
+	1919 8.92v6	John	Smytht	Smytht		Hurstborne	
+	1208 8.55f3	John	Bedale	Bedale			
+	1210 8.55v5	John	Chavyn	Chavyn			
+	1211 8.55v6	John	Haywarde	Haywarde			
+	1212 8.55v7	John	Langlonde	Langlonde			
+	1921 8.92v10	John	Walton	Walton			
+	1931 8.93v1	John	Hygdon	Hygdon			
+	1215 8.55v2a	John	Bocher	Bocher			paid 12d for 1 g
+	745 8.35f3b	John	Poddyngge	Poddyngge			
+	1798 8.86r10	John	Walton	Walton			
+	1888 8.91r4	John	Schoppe	Schoppe			
+	1046 8.47v7	John	Hillere	Hillere			
+	1244 8.57f3	John	Chavon	Chavyn	senior		Chavon senior
+	1886 8.91r2	John	Hokere	Hokere			
+	1868 8.90f3	John	Gregorii	Gregory			
+	782 8.36v4	John	Schoppe	Schoppe			
+	1866 8.90r1	John	Desy	Desy			
+	783 8.36v5	John	Cadelton	Cadelton			
+	1245 8.57r4	John	Kytzell	Kytzell			
+	1247 8.57f5a	John	Burt	Burt			
+	1250 8.57r7	John	Wyse	Wyse			in with cloth left
+	1802 8.86r14	John	Bocher	Bocher			stall at Friars M
+	771 8.36r4	John	Haywarde	Haywarde			
+	1799 8.86r11	John	Chavyn	Chavyn			
+	776 8.36v9	John	Stobbrygge	Stobbrygge			
+	1251 8.57r7a	John	Stobbrygge	Stobbrygge			in with wool left

Records: 1 of 2885

# Relational Database Structure



# Database Queries





# Database Entry

**fsubCommodities**

Item:  Sub category:  Category:

Unit:  Number:  Number indeterminate:

Custom only?:  Goods out:  Goods in:

Recipient:

Own property?:  Comments:

Recipient	Forename	<input type="text" value="John"/>	Surname	<input type="text" value="Trevet"/>	Standard surname	<input type="text" value="Trevet"/>
	Status	<input type="text"/>	Nationality	<input type="text"/>	Of place	<input type="text"/>
	Occupation	<input type="text"/>	Notes	<input type="text"/>		

Record:      of 4408

**fsubCommodities**

Item:  Sub category:  Category:

Unit:  Number:  Number indeterminate:

Custom only?:  Goods out:  Goods in:

Recipient:

Own property?:  Comments:

Recipient	Forename	<input type="text" value="Edward"/>	Surname	<input type="text" value="Catan"/>	Standard surname	<input type="text" value="Catan"/>
	Status	<input type="text"/>	Nationality	<input type="text" value="Genoese"/>	Of place	<input type="text"/>
	Occupation	<input type="text"/>	Notes	<input type="text"/>		

Record:      of 4408



# Database Interface

Microsoft Access - [Shipments]

File Edit View Insert Format Records Tools Window Help

Type a question for help

Tahoma 8 B I U

Batch ID: 521 Shipment year: 1447-48 Feast day:   
Day: Monday Date: 2 Month: October Week of financial year: 1 Date: 02/10/1447

No. of carts out: 1 No. of carts in: 1 Own cart?: ☒ Town: Stanes

Custom paid: 4 Custom paid at sea?: ☐   
Portage paid: 2 Brokage paid: 0 Market stall payment: 0

Comments:

Carrier: Forename: Henry Surname: Smytht Standard surname: Smytht Title:   
Of place: Stanes Notes:

Multiple carriers:

	Forename	Surname	Standard surname	Title	Of place	Comments
▶						

Record: 1 of 1

Item: cloth non specific Sub category: cloth Category: textiles   
Unit: unit Number: 0 Number indeterminate: 1   
Custom only?: No Goods out: No Goods in: Yes   
Recipient: Add new recipient   
Own property?: No Comments:

Recipient: Forename: Surname: Standard surname:   
Status: Nationality: Of place:   
Occupation: Notes:

Record: 1 of 3892

Form View

Start Inbox for apm@ge... P:\UC0794\_ArcGI... Microsoft PowerPol... VERSION-19.4\_20... Shipments 14:12

*c. 3,000 records for 1 year*

# No. Carts per Destination

	ltdMiles	ltdEastin	ltdNorthi	ltdCounty	Standardto	CartsOut
	21	414138	129461	WILTS	Salisbury	927
	68	531560	181200	MDX	London	649
	12	448212	128410	HANTS	Winchester	449
	7.5	435431	121186	HANTS	Romsey	171
	0	0	0		unknown	118
	21.5	436336	145455	HANTS	Andover	50
	23	409723	131093	WILTS	Wilton	49
	72	383500	218500	GLS	Gloucester	34
	57	451505	206160	OXF	Oxford	32
	114	433349	278761	WEST MID	Coventry	31
	35	447500	167500	BERKS	Newbury	29
	41	471500	173500	BERKS	Reading	24
	25	471691	139541	HANTS	Alton	24
	38	419076	169048	WILTS	Marlborough	17
	17.5	415500	105500	HANTS	Ringwood	16
	17	414680	114070	HANTS	Fordingbridge	16
	0	416500	112500	HANTS	Hungerford	13
	63	360500	175500	SOM	Bristol	12
	62	425140	212117	OXF	Burford	12
	9	442809	125295	HANTS	Hursley	11
	0	400458	161098	WILTS	Devizes	9
	17.5	458840	132710	HANTS	Alresford	9

Record: 0 Show: All Selected Records (0 out of 76 Selected.) Options

# Reconstructing Geographies

- Plotting ‘what went where’
- Significant Centres
- Carters
- Ranges of goods



# Spatialising the data

## ■ Standardising names

(Original names retained)

Guildford	Gildeford	<input type="checkbox"/>
Guildford	Gilford	<input type="checkbox"/>
Gloucester	Glocester	<input type="checkbox"/>
Gloucester	Glocestr	<input type="checkbox"/>
Gloucester	Glocetr	<input type="checkbox"/>
Gloucester	Glosetr	<input type="checkbox"/>
Gloucester	Glosetre	<input type="checkbox"/>
Gloucester	Gloucestr	<input type="checkbox"/>
Gloucester	Gloucestre	<input type="checkbox"/>
Gloucester	Gloucetr	<input type="checkbox"/>
Gloucester	Glousetr	<input type="checkbox"/>
Gloucester	Glowcestr	<input type="checkbox"/>
Gloucester	Glowcetr	<input type="checkbox"/>
Gloucester	Glowsetr	<input type="checkbox"/>
Gloucester	Glucetr	<input type="checkbox"/>
Gloucester	Glucetre	<input type="checkbox"/>
Grantham	Granntham	<input type="checkbox"/>
Grantham	Grantham	<input type="checkbox"/>
Guildford	Guldeford	<input type="checkbox"/>
Guildford	Guldeforde	<input type="checkbox"/>
Guildford	Gyldeforde	<input type="checkbox"/>
Hardingford	Hardingford	<input type="checkbox"/>
Henley	Henle	<input type="checkbox"/>
Henley	Henley	<input type="checkbox"/>
Hursley	Hersseley	<input type="checkbox"/>

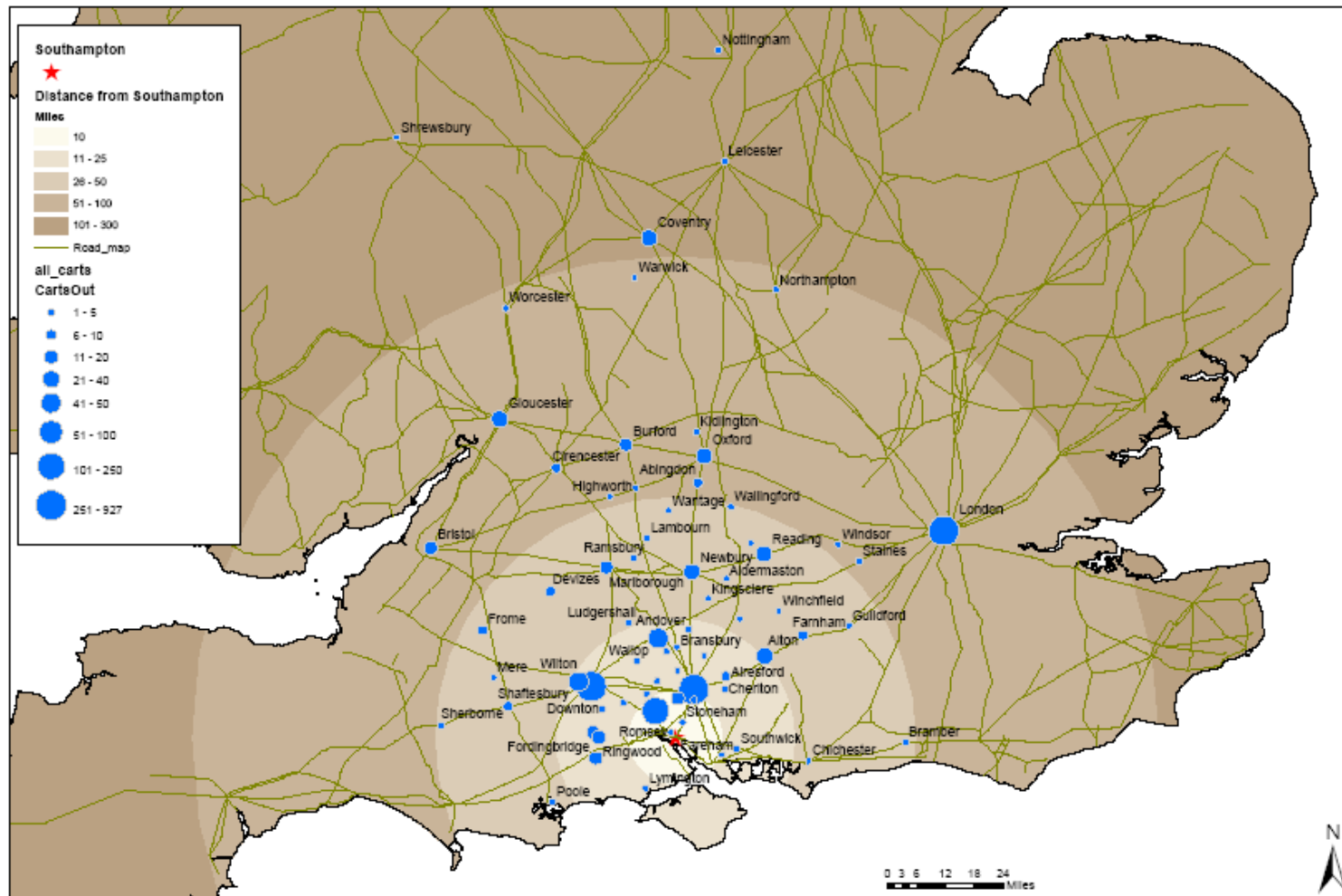
## ■ Duplicates

- There are Twyford in Hampshire, Buckinghamshire, Derbyshire, Dorset, Herefordshire, Leicester, Norfolk, Oxfordshire, Shropshire and Worcester

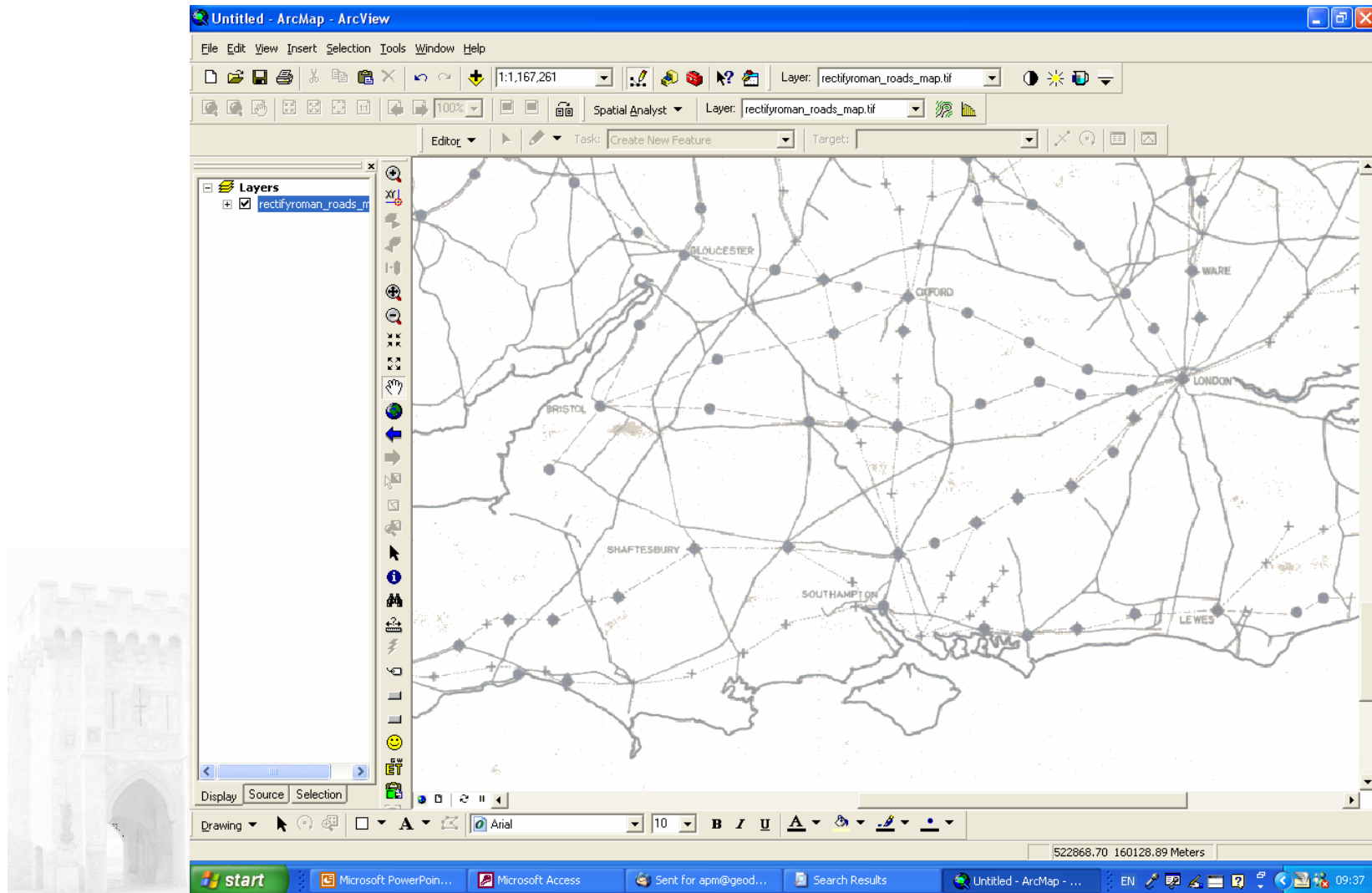


# GeoDatabase - Total Carts Map

Total Carts to English Destinations

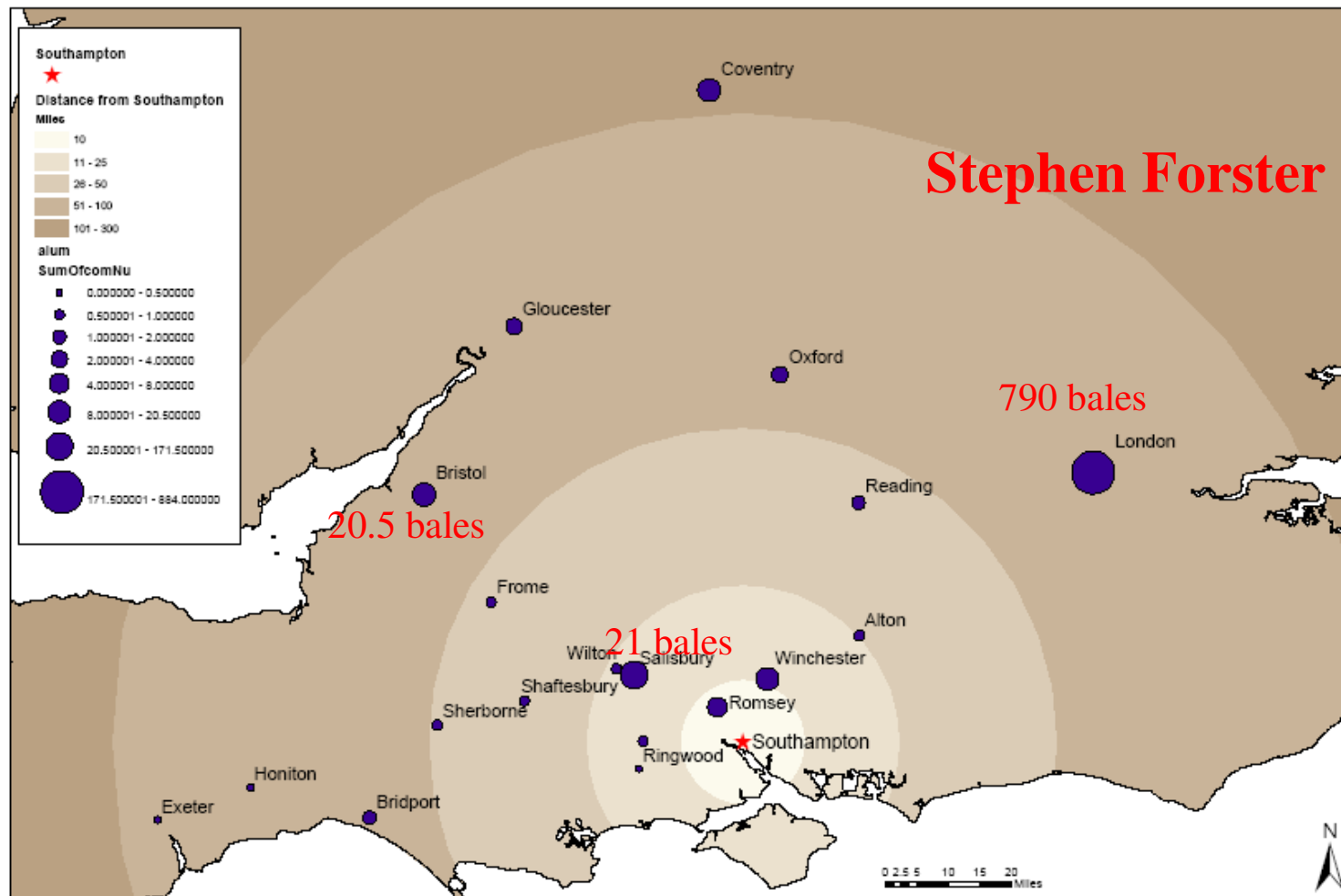


# Medieval Road Network



# Single Commodity - Alum

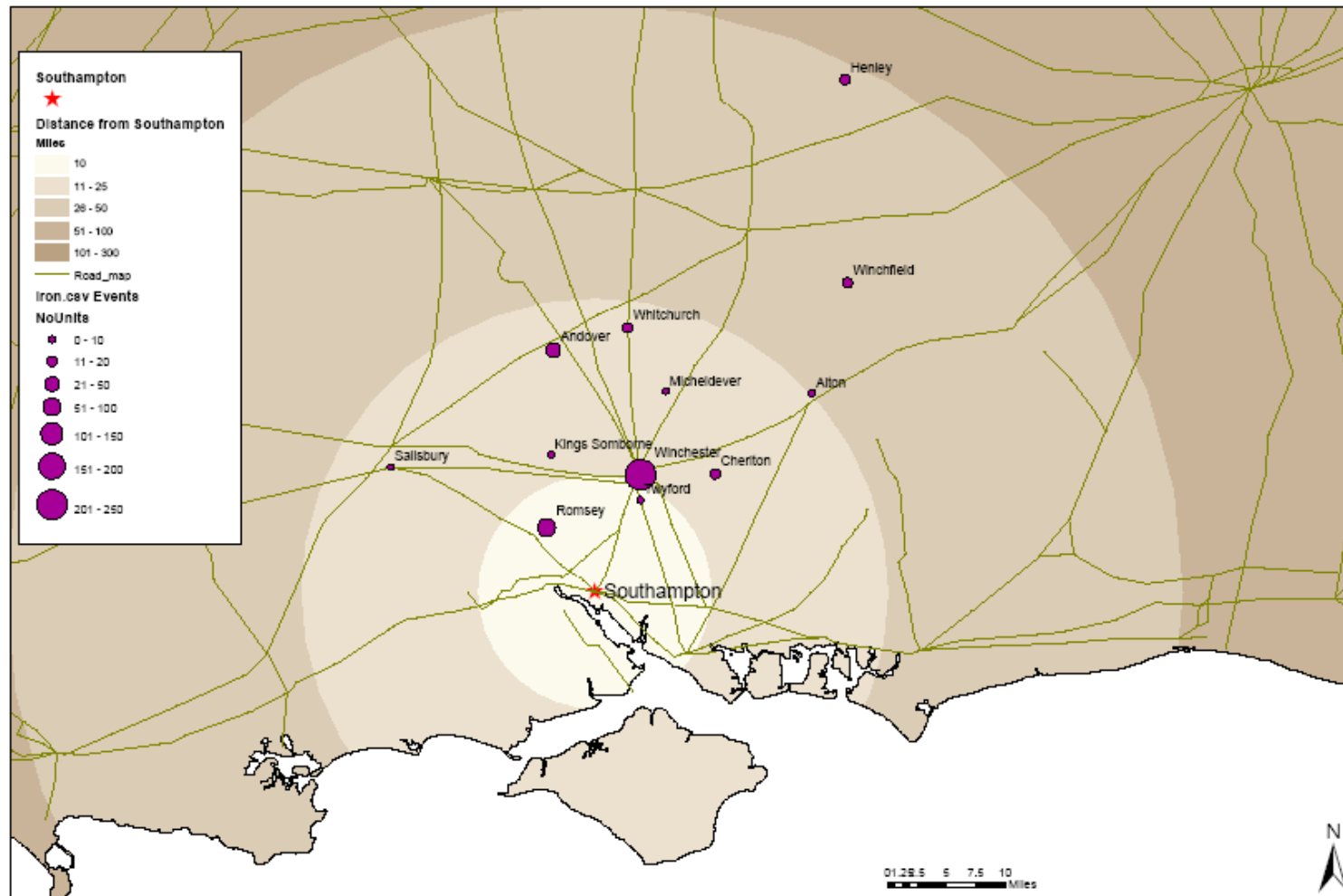
Distribution of Alum 1447-1448





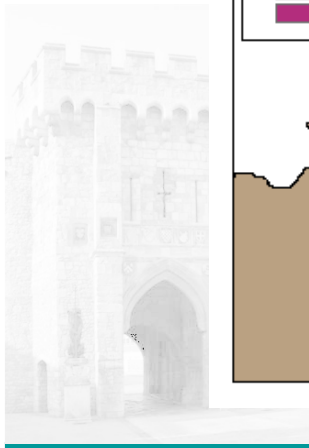
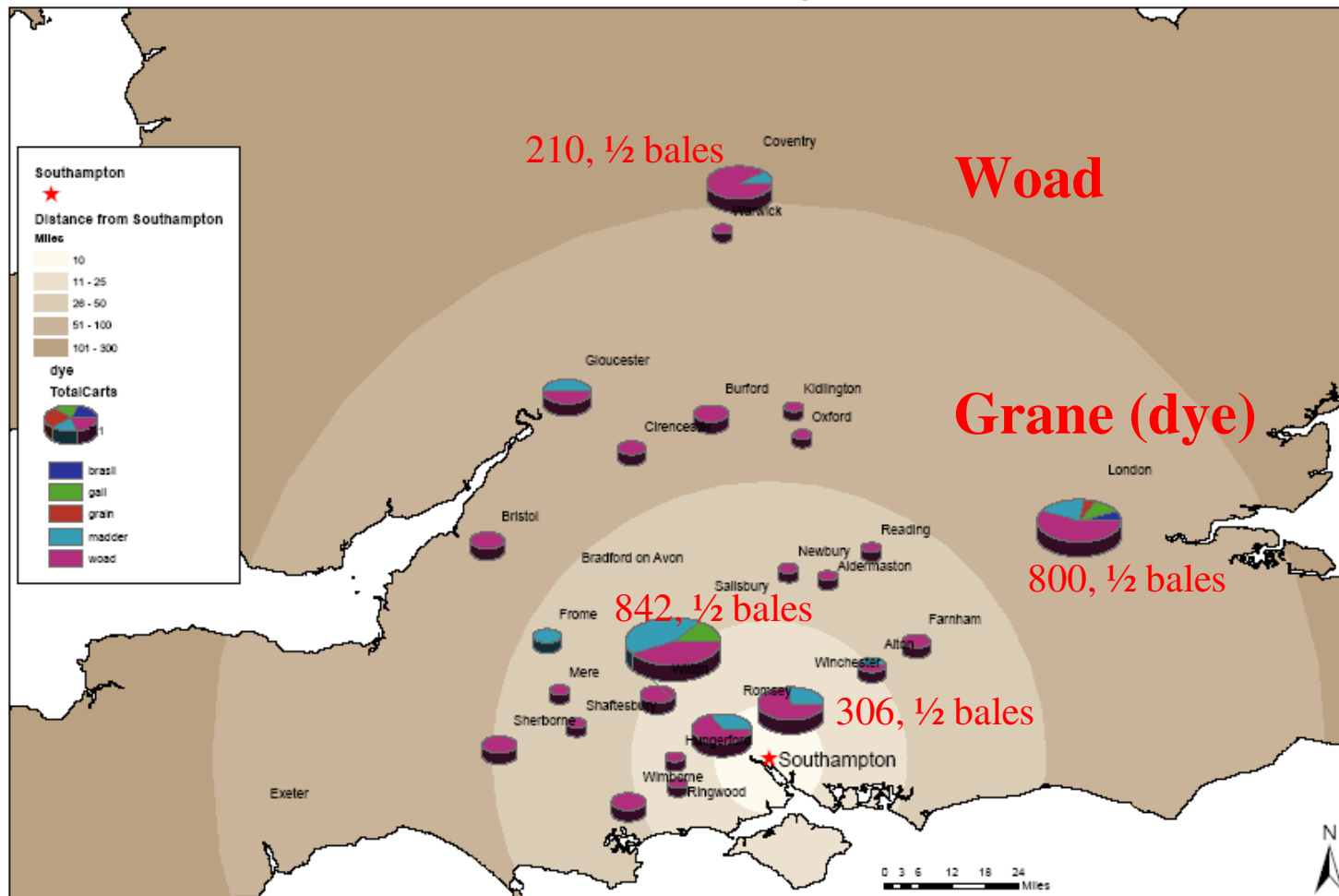
# Single Commodity - Iron

Distribution of Iron 1447-1448



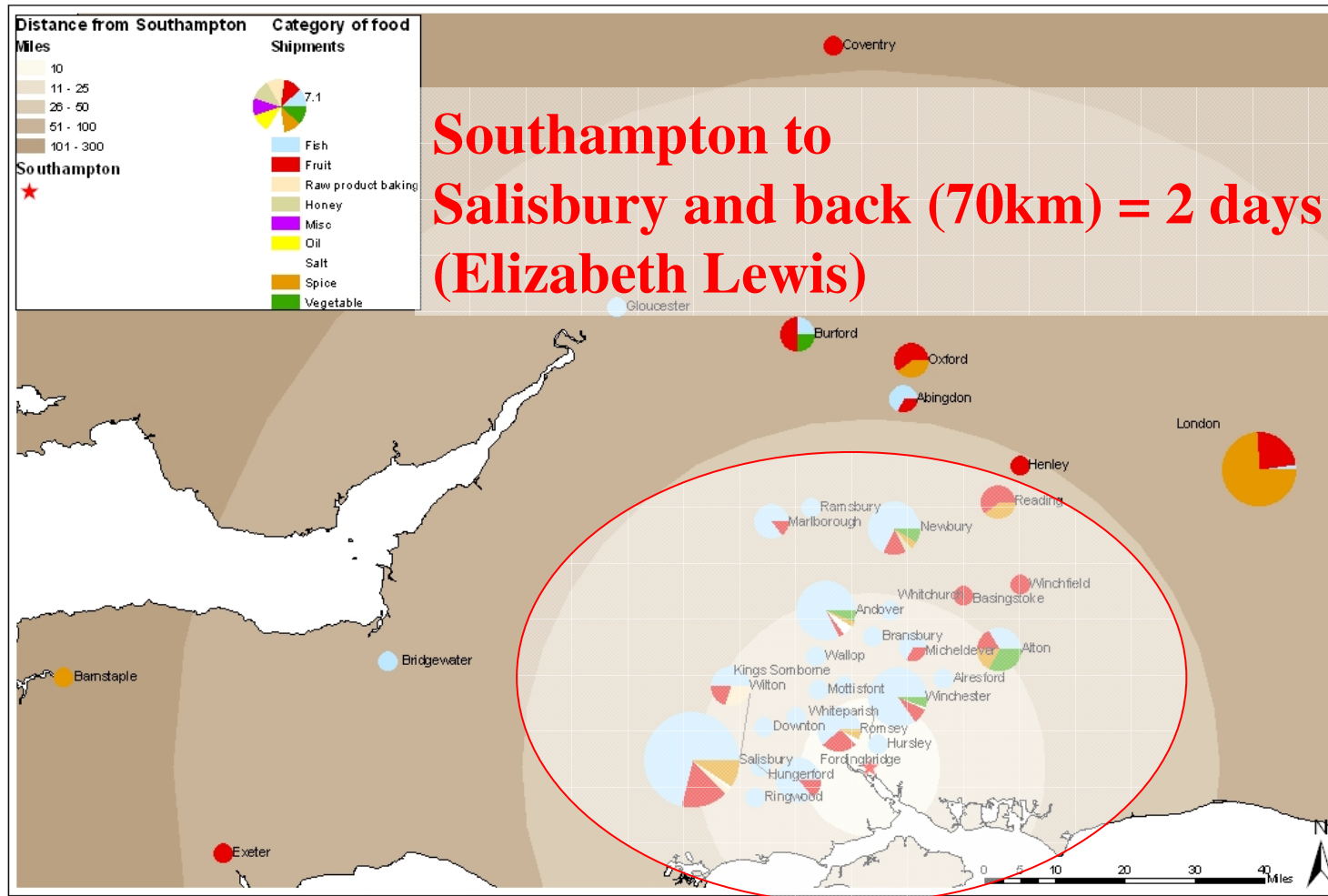
# Raw Products - Wool and Cloth

Distribution of cloth dyes



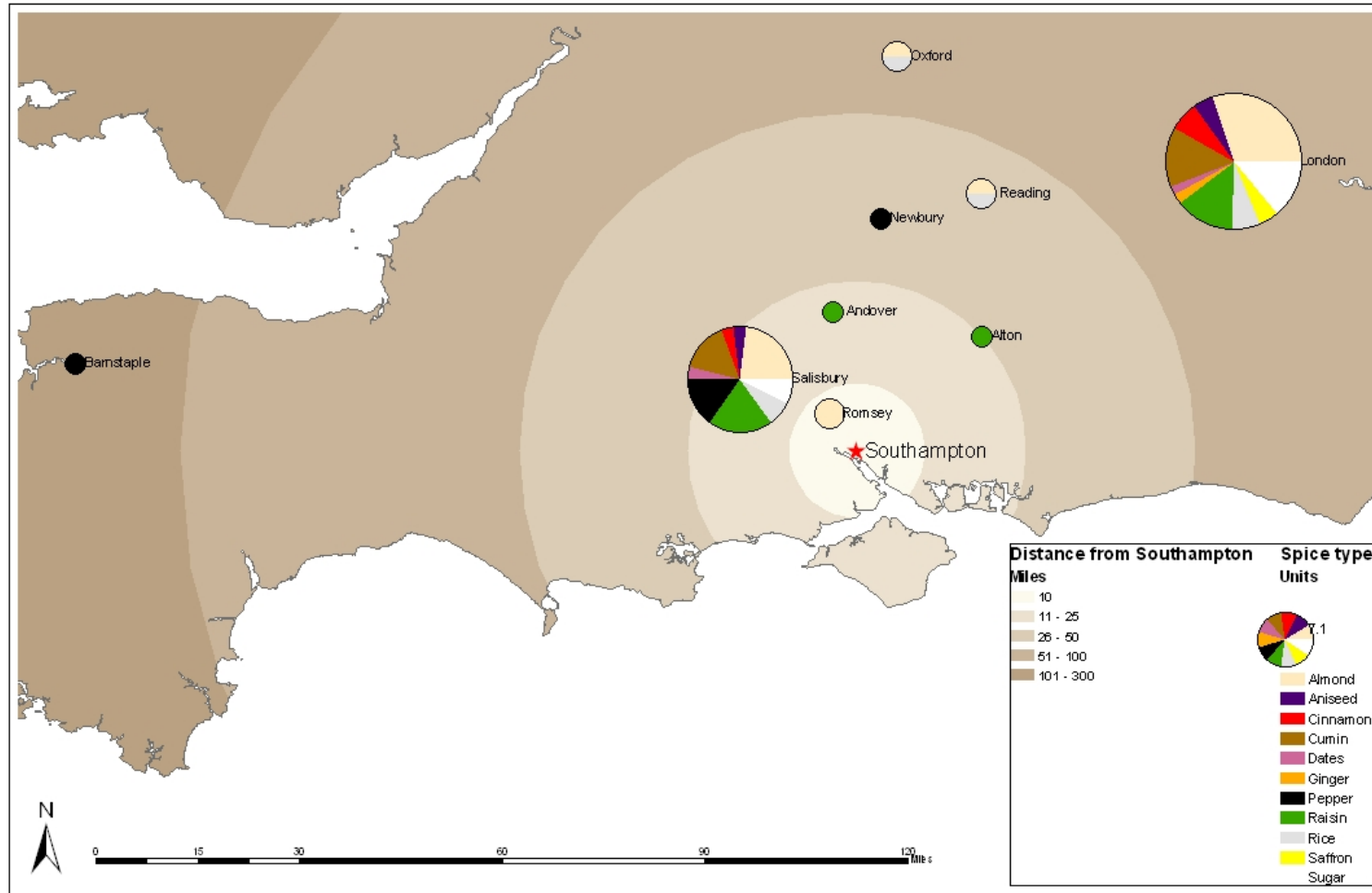
# Range of Goods – Consumable Food

Distribution of all consumable food shipped out from week 1 to week 26



# Range of Goods - Spices

Distribution of spices shipped out from week 1 to week 26



# Carters

Microsoft Access - [QRY\_desintation\_carriers : Select Query]

File Edit View Insert Query Tools Window Help

Type a question for help

tblCarriers

- carCarrierID
- carBatchID
- carCarrierForename
- carCarrierSurname
- carCarrierStdSurname
- carCarrierTitle
- carOfPlace
- carNotes

tblBatchOrder

- shpID
- shpBatchID
- shpDay
- shpDate
- shpMonth
- shpWeekFinal
- shpFeastDay
- shpOutCarts
- shpInCarts
- shpOwnCart
- shpTown

lkpTown

- ltnStandardTown
- ltnDestination

tblCommodities

- comCommodity
- comBatchID
- comItem
- comSubCategory
- comCategory
- comDesignate
- comNumber
- comNumberIn
- comCustomOrder
- comOut
- comIn
- comRecipient

Field: carCarrierForename ltnStandardTown comItem shpOutCarts comOut shpBatchID carCarrierStdSurname

Table: tblCarriers lkpTown tblCommodities tblBatchOrder tblCommodities tblBatchOrder tblCarriers

Total: Group By Group By Group By Count Group By Group By Where

Sort:

Show: ☒ ☒ ☒ ☒ ☒ ☒ ☐

Criteria: "Stephen" "Kynge"

or:

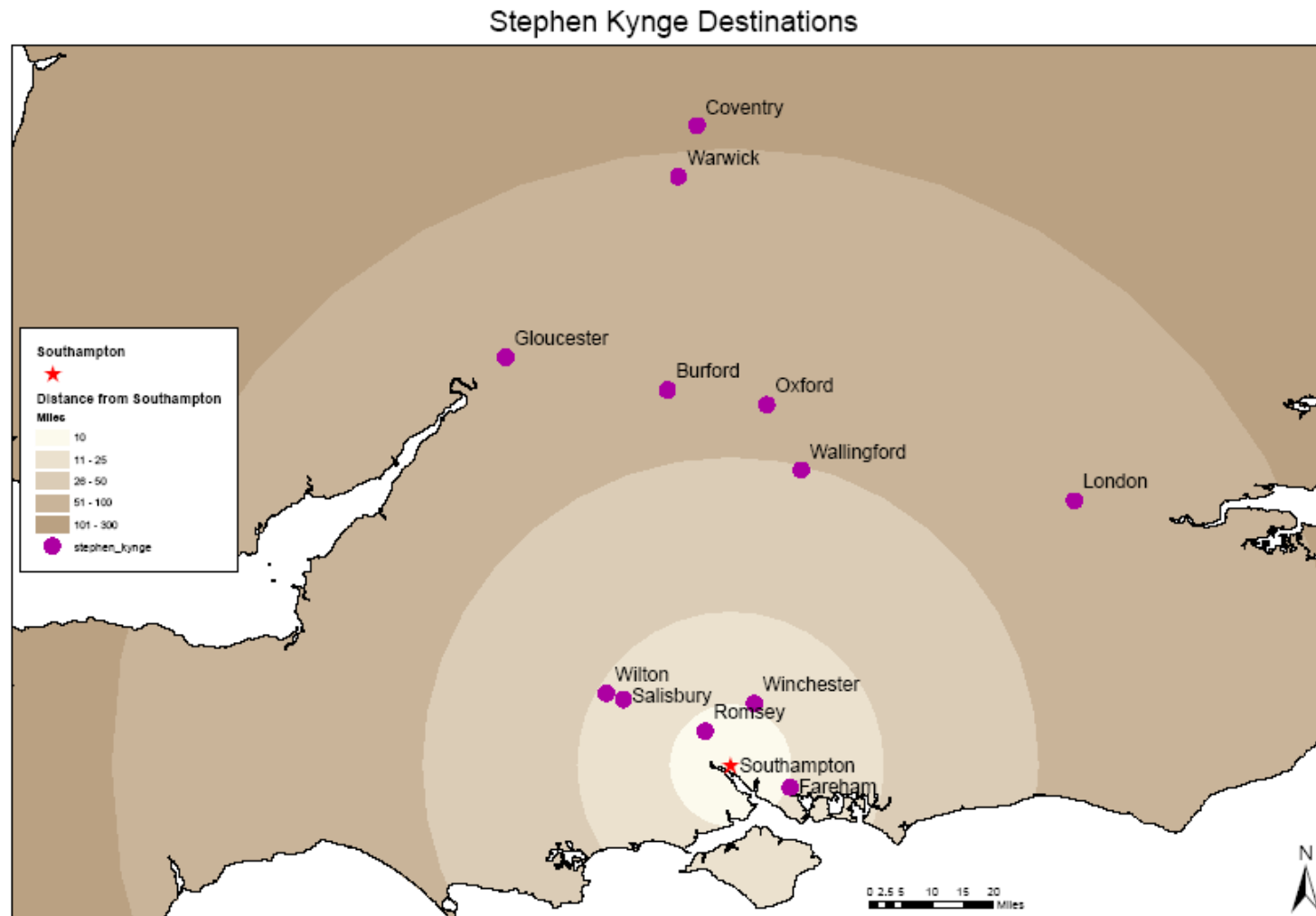
- Thomas Jolyffe
- Stephen Kynge
- John Kytsell

Ready

NUM

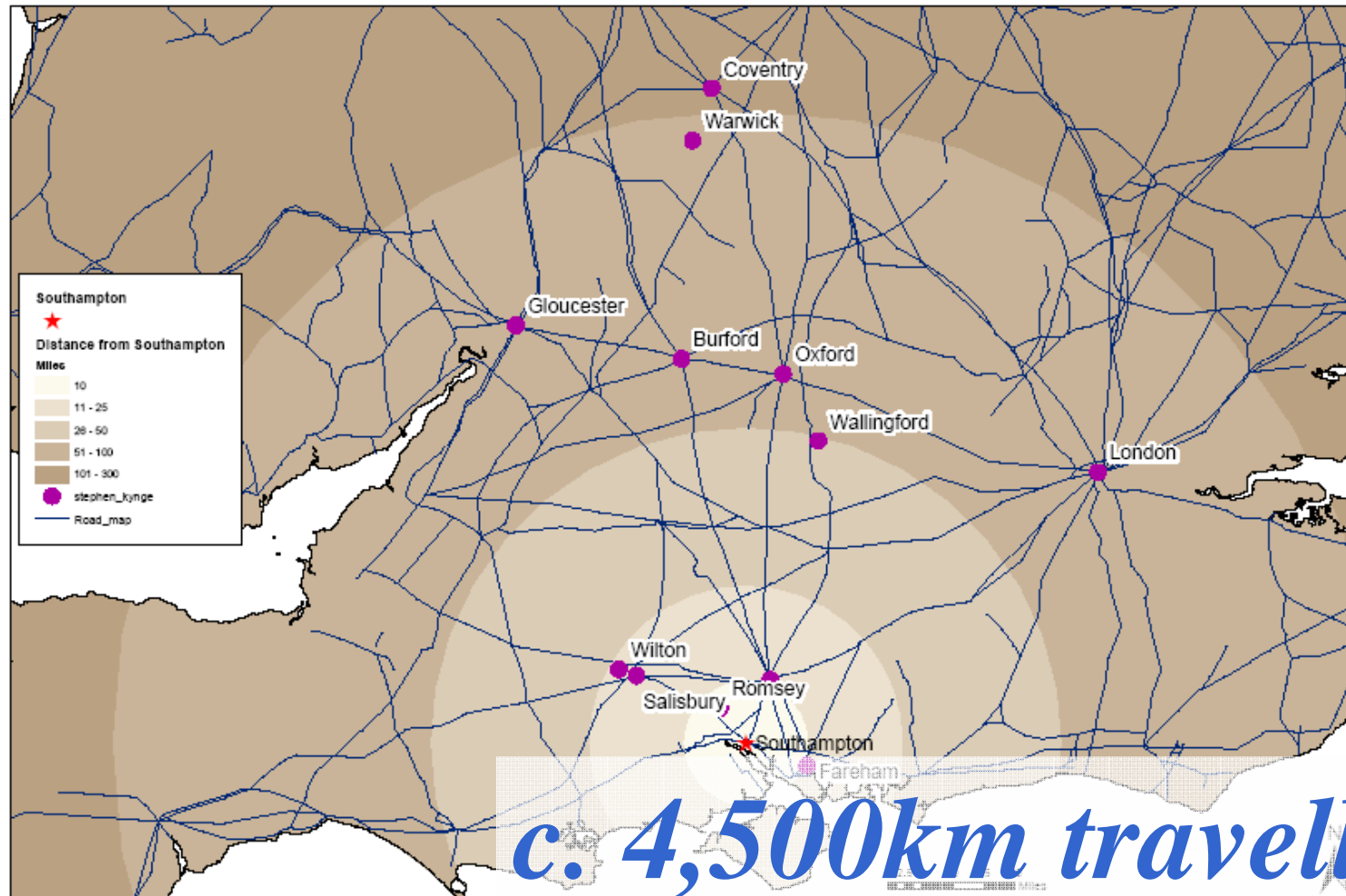
Start P:\UC0794\_Arc... Microsoft Power... VERSION-19... Microsoft Excel Jasc Paint Shop... QRY\_desintatio... 13:18

# Stephen Kynge's Destinations 1447-8



# Stephen Kynge's Destinations 1447-8

Stephen Kynge Destinations



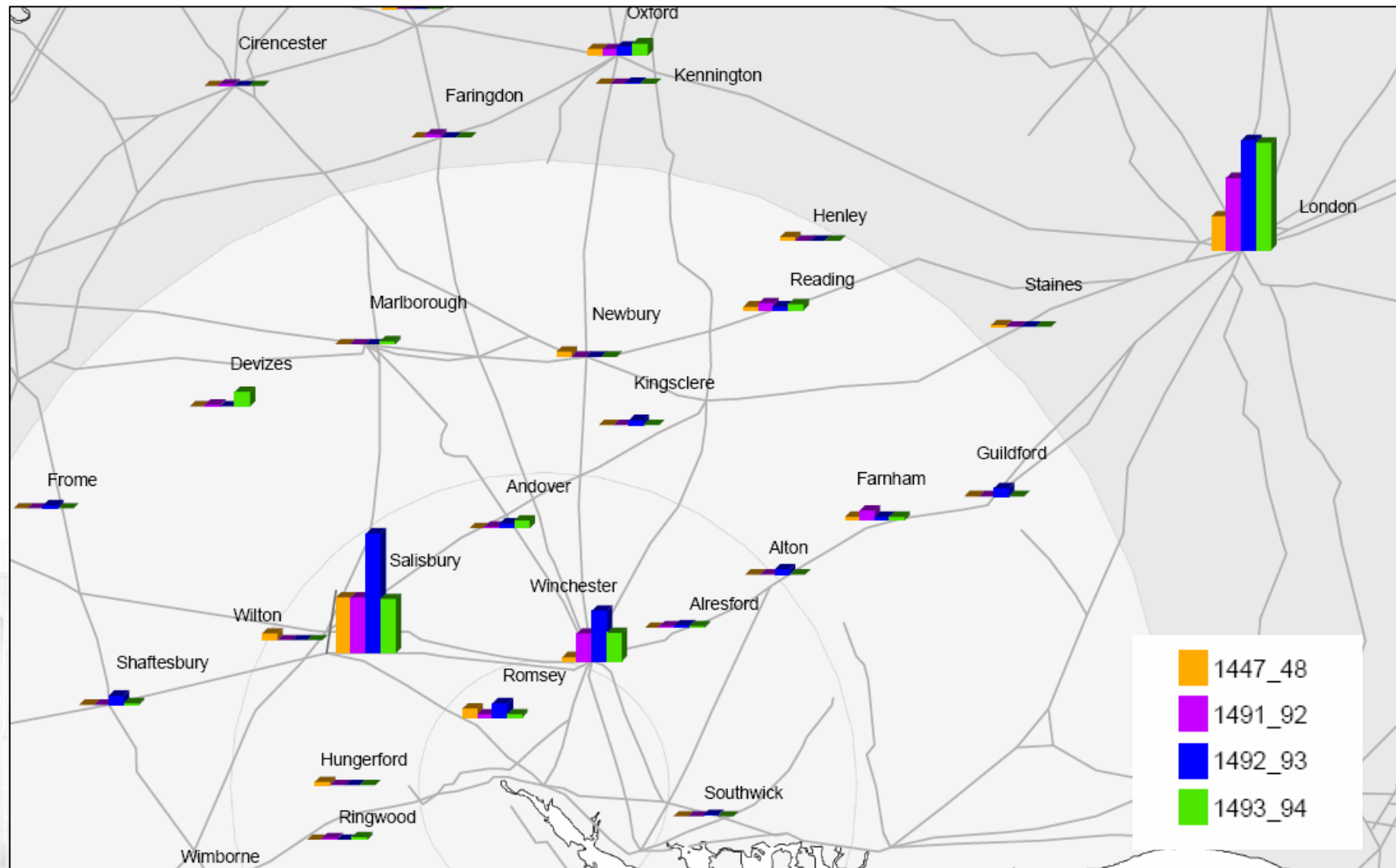
# Stephen Kynge's Destinations 1447-8

Destination	Trips	km
Burford	1	103
Coventry	1	171
Fareham	1	20
Gloucester	1	134
London	3	357
Oxford	5	478
Romsey	1	13
Salisbury	19	630
Wallingford	1	86
Warwick	1	190
Wilton	1	38
Winchester	1	17
<b>Total</b>	36	2236
<b>RoundTripTotal</b>		4473



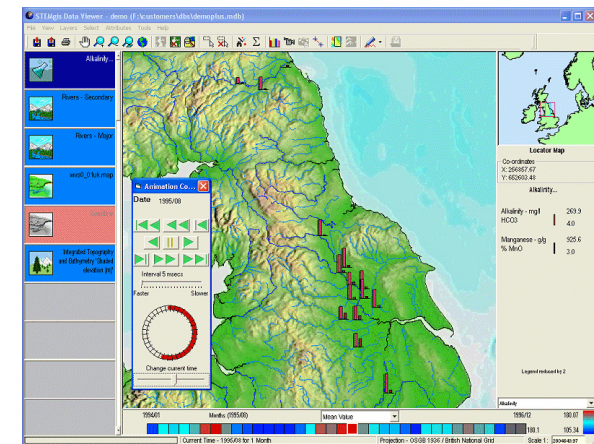


# Mapping Change Over Time - Wine



# Future Work

- A single year on CD in the autumn
- Input of additional years (38 in total)
- Full database
- Temporal trends
- Potential to discover more about the key players
- Overseas origins?



# Questions / Further Information

- Leaflet

- Email

- Winifred Harwood

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[apm@geodata.soton.ac.uk](mailto:apm@geodata.soton.ac.uk)

