

Durham E-Theses

The development of the Bunter Sandstone region of Nottinghamshire

Bell, George Ernest

How to cite:

Bell, George Ernest (1939) The development of the Bunter Sandstone region of Nottinghamshire, Durham theses, Durham University. Available at Durham E-Theses Online: http://etheses.dur.ac.uk/10359/

Use policy

The full-text may be used and/or reproduced, and given to third parties in any format or medium, without prior permission or charge, for personal research or study, educational, or not-for-profit purposes provided that:

- a full bibliographic reference is made to the original source
- a link is made to the metadata record in Durham E-Theses
- the full-text is not changed in any way

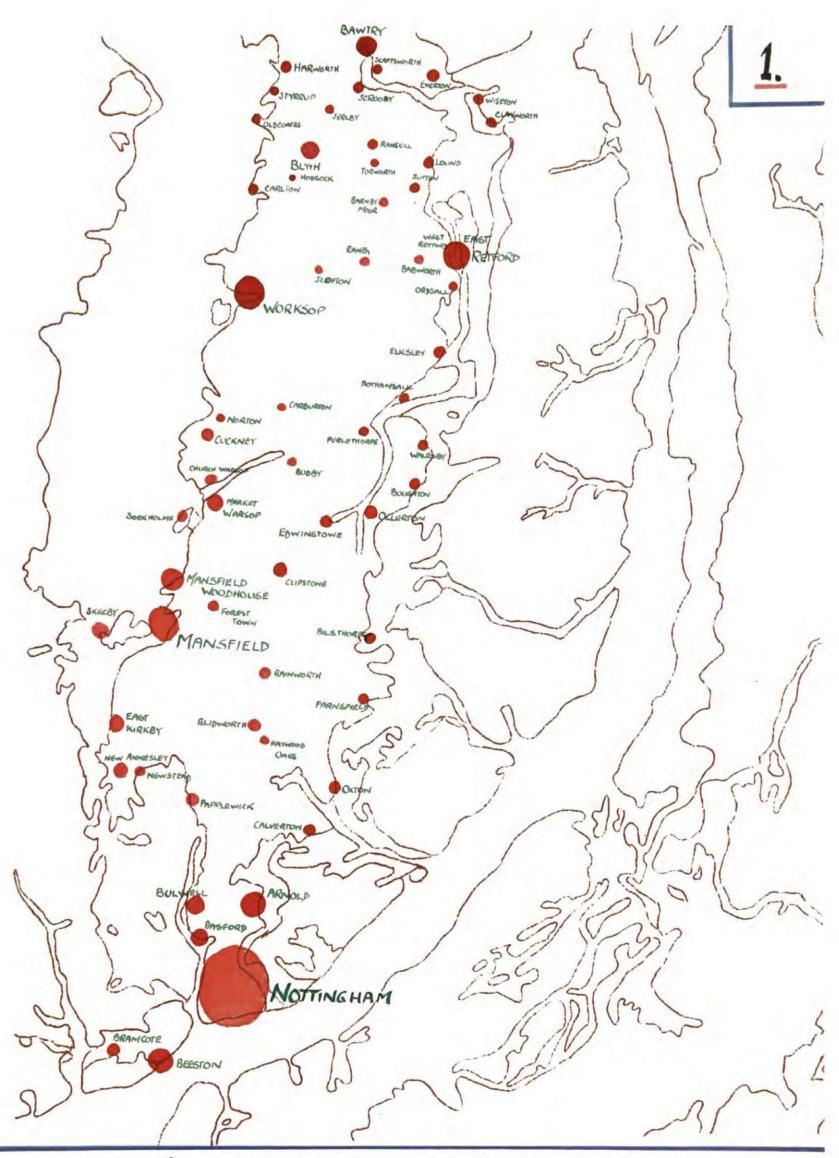
The full-text must not be sold in any format or medium without the formal permission of the copyright holders.

Please consult the full Durham E-Theses policy for further details.

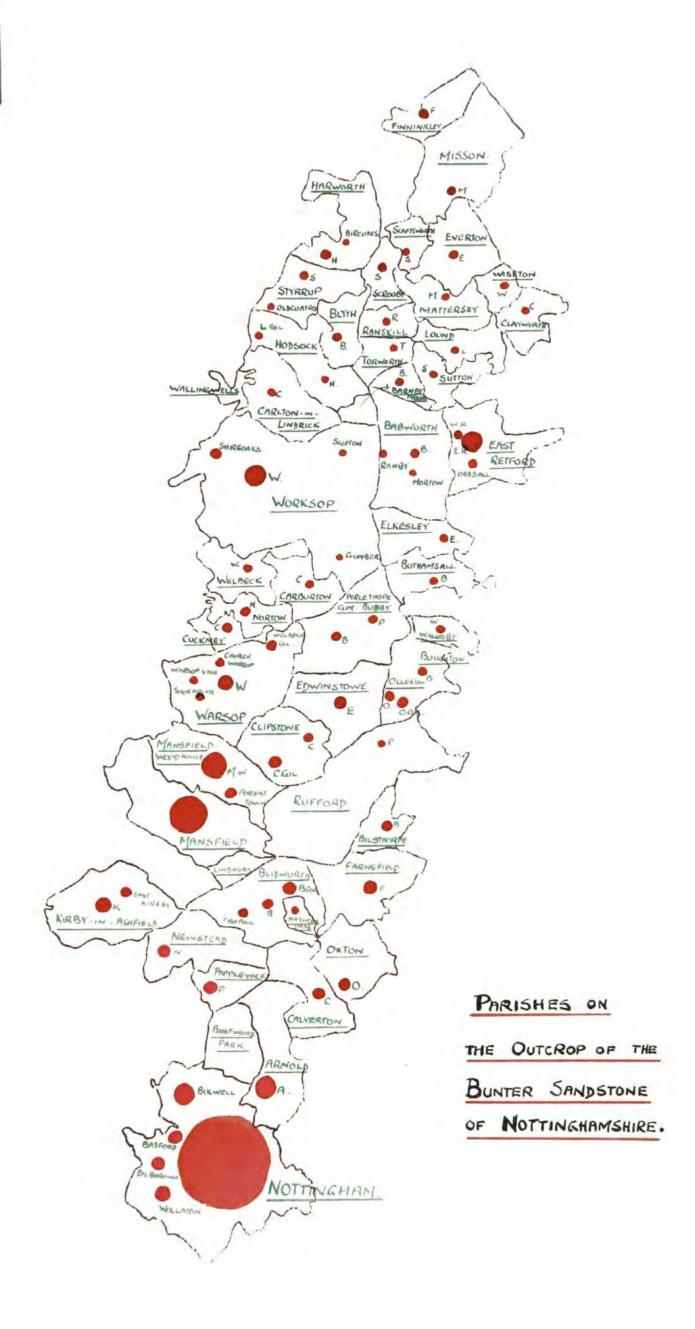
Maps and Diagrams.

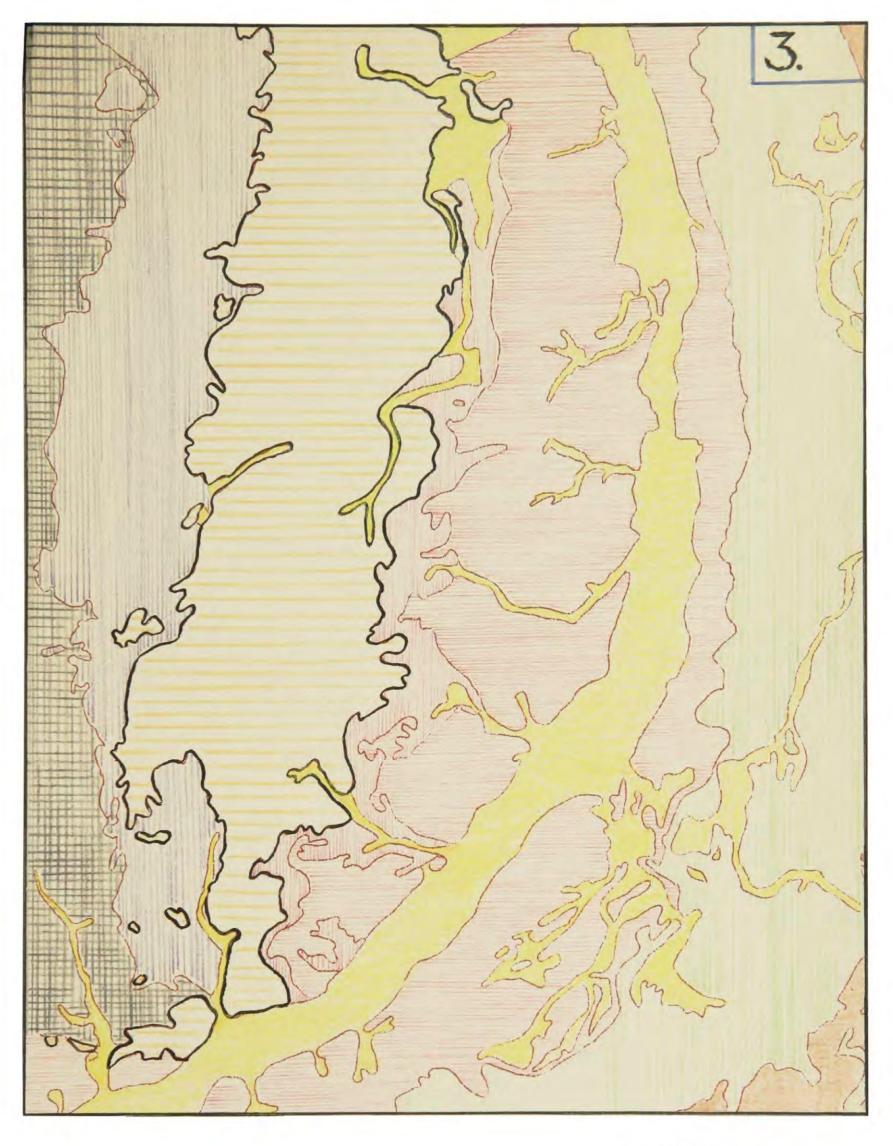
- 1. Reference map. Towns and villages on the Bunter outcrop.
- 2. Reference map. Parishes on the Bunter outcrop.
- 3. Geological map. (Scale 4" to 1 mile).
- 4. Geological map, (Scale 1" to 1 mile), showing extent of settlement on the Bunter outcrop.
- 5. Physical map relief, streams and towns.
- 6. Spot heights on Bunter and neighbouring outcrops.
- 7. Section. Bawtry to Nottingham. (N S over Bunter).
- 8. Section. Bolsover to Tuxford (E W)
- 9. Section. Alfreton E. Kirkby Edingley (E W)
- 10. General distribution of streams over Bunter and neighbouring outcrops.
- 11. Distribution of streams on the Bunter country.
- 12. Dry valleys.
- 13. Water table contours on the Bunter and neighbouring outcrops.
- 14. Water table contours on northern part of the Bunter.
- 15. Water table contours and spot heights on the Bunter outcrop.
- 16. Spil distribution.
- 17. Wind directions at Nottingham for 1929 and 1939.
- 18. Wind strengths at Nottingham for April, May and June (1926-1931).
- 19. Distribution of rainfall over Nottinghamshire and East Derbyshire.
- 20. Rainfall. Nottingham 1926 1936.
- 21. Rainfall. Mansfield. 1926 1936.
- 22. Rainfall. Worksop. 1926 1936.
- 23. Distribution of thunder storms over Br. Isles. 1881 1905.
- 24. Distribution of Palaeolithic, Neolithic and Bronze remains.
- 25. Distribution of evidences of Roman occupation.
- 26. Relief and communications in geographic unit to which the Bunter outcrop belongs.
- 27. Routes by which the English entered the region.
- 28. Distribution of place names and ing in ingham and ing, and of English cemeteries.
- 29. The site of Nottingham.
- 30. Distribution of place names ending in ley, and field, and containing wood.
- 31. Final English settlements.
- 32. Distribution of Scandinavian names, ending in -by, -thorpe, -thwaite and containing personal names.

- 33. Summary of order of settlement.
- 34. The Norman kings' manors on the Bunter outcrop.
- 35. Sherwood Forest in the 12th and 13th centuries.
- 36. Distribution of religious houses in Nottinghamshire.
- 37. 17th century map of Carburton showing the 'breck' system of cultivation in use.
- 38. Enclosure on the Bunter to 1700 AD.
- 39. Enclosure on the Bunter in the 18th century.
- 40. Enclosure on the Bunter in the 19th century.
- 41. Density of population in Bunter parishes 1801.
- 42. Density of population in Bunter parishes 1851.
- 43. Density of population in Bunter parishes 1901.
- 44. Density of population in Bunter parishes 1931.
- 45. Population graphs for some Bunter villages 1801. 1931.
- 46. Present distribution of villages and towns on Bunter and neighbouring outcrops.
- 47. Distribution of population over Nottinghamshire and East Derbyshire. 1931.
- 48. The Bunter outcrop as a source of water.
- 49. Section. Chesterfield to Boughton showing structure of coalfield.
- 50. Conjectural contours of Top Hard coal over the concealed coalfield.
- 51. The development of the concealed coalfield 1859 1900.
- 52. The development of the concealed coalfield 1900 1920.
- 53. The development of the concealed coalfield 1920 1939.
- 54. Framework centres on the Bunter outcrop in 1845.
- 55. Modern industrial setting of the Bunter outcrop.
- 56. Agricultural distributions for 1875 and 1937. Land in use, barley, sheep, dairy cows.



TOWNS AND VILLAGES ON THE BUNTER OUTCROP
OF NOTTINGHAMSHIRE.

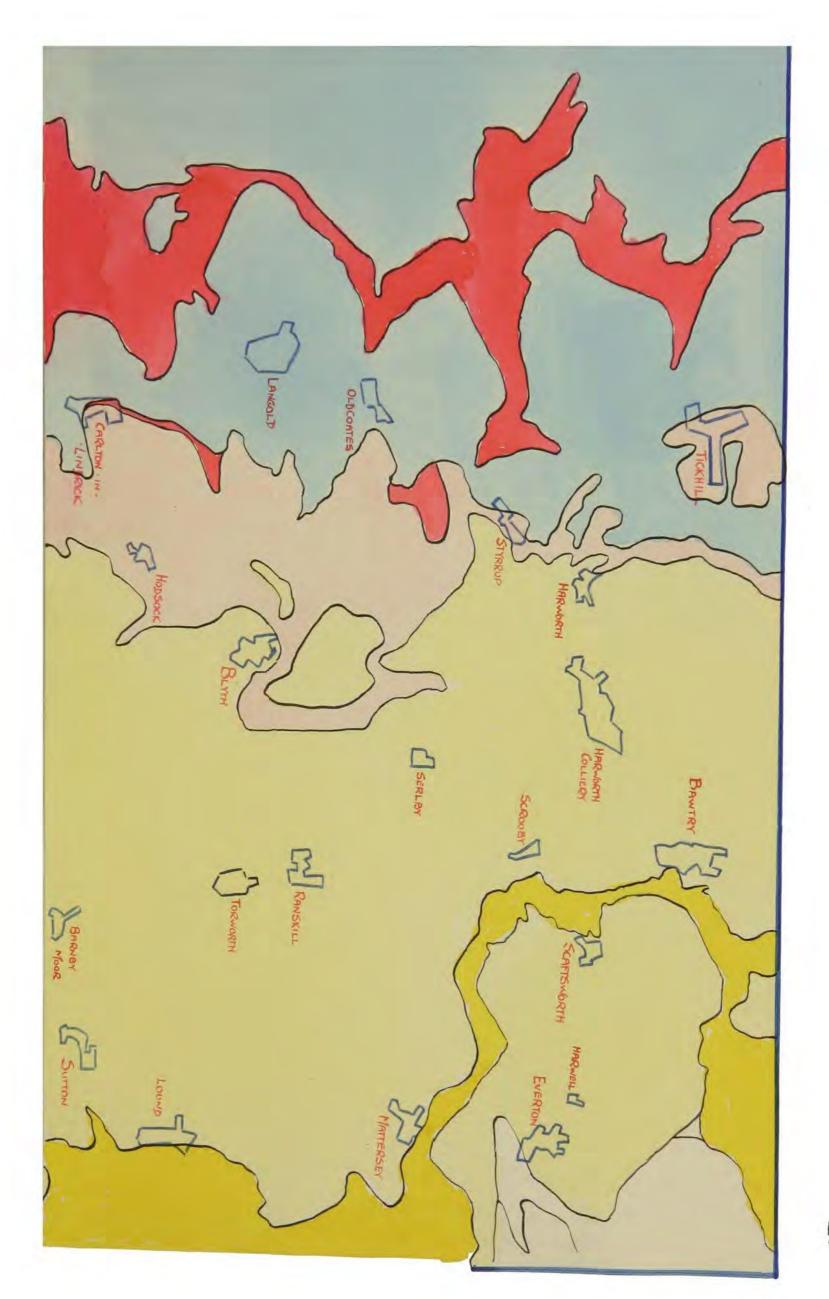


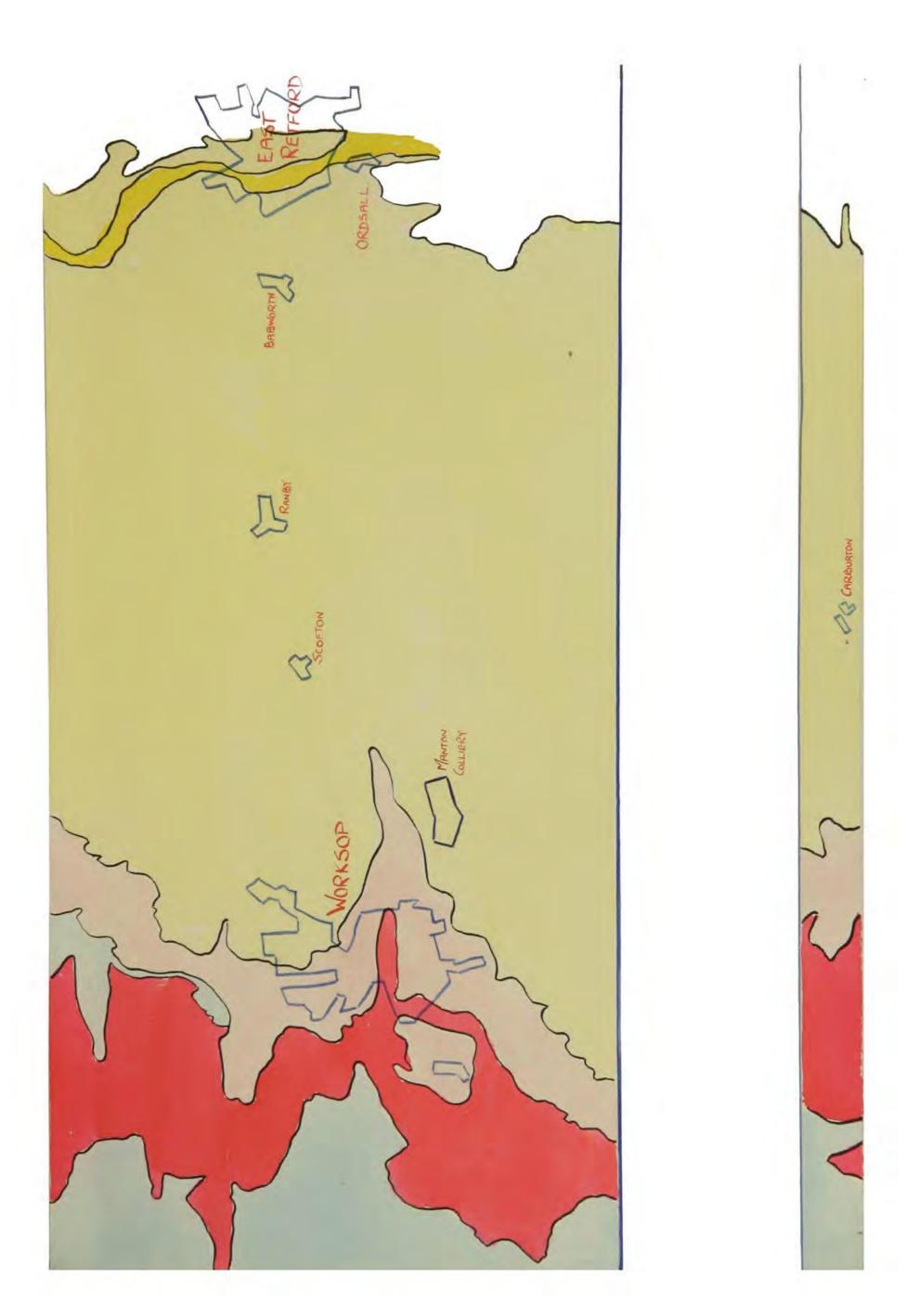


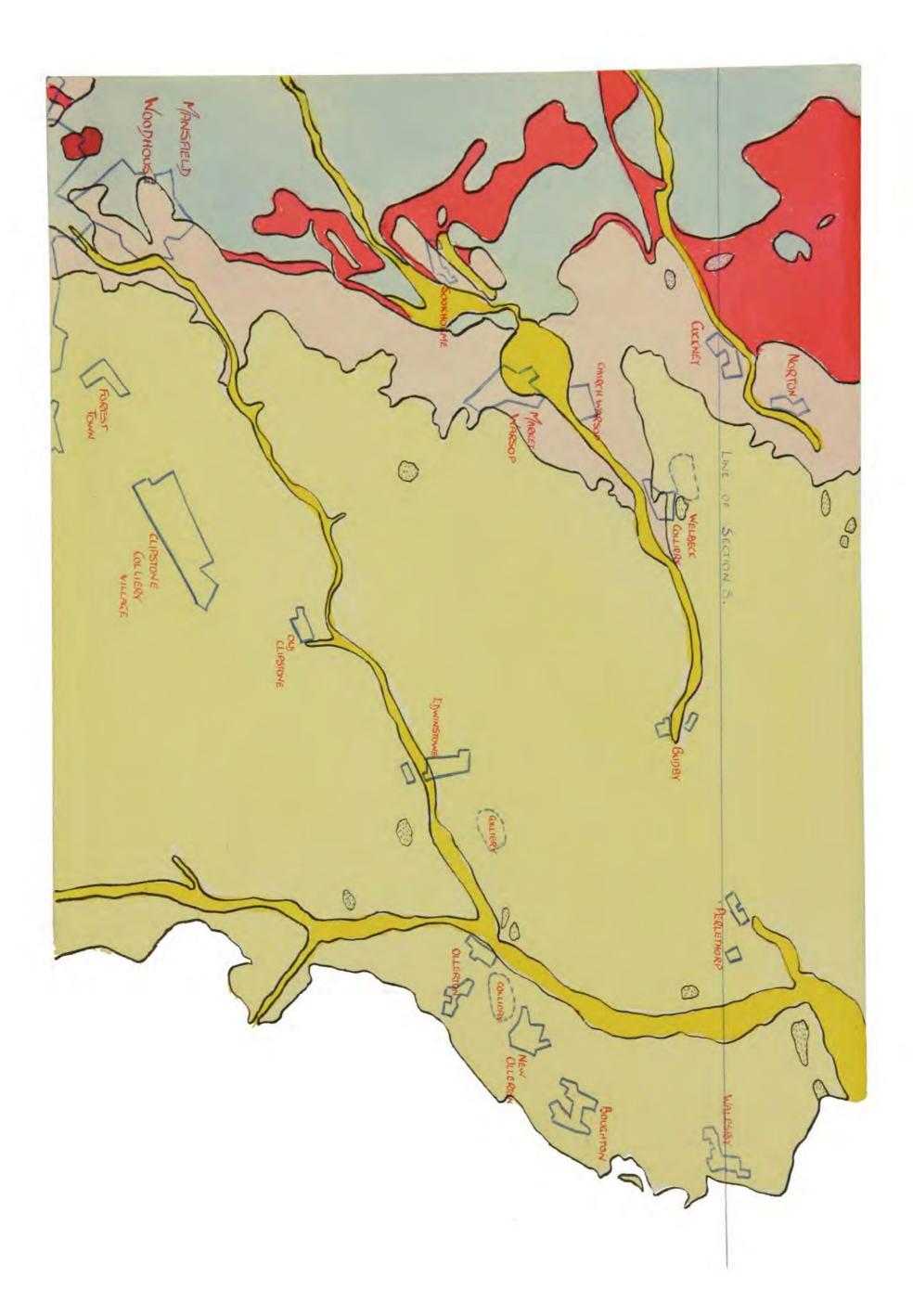
GEOLOGICAL MAP.

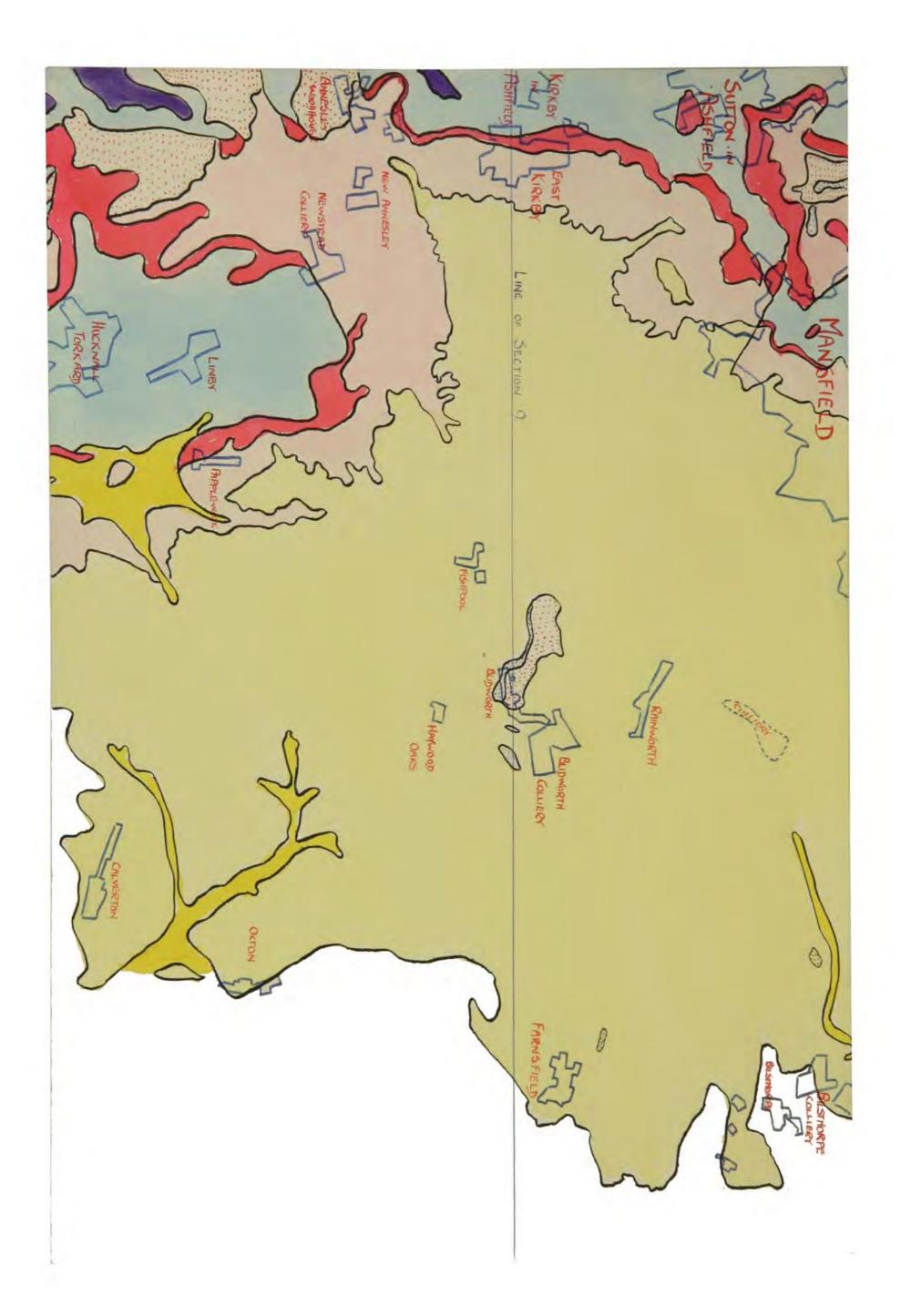
SCALE 1/4" = 1 MILE.

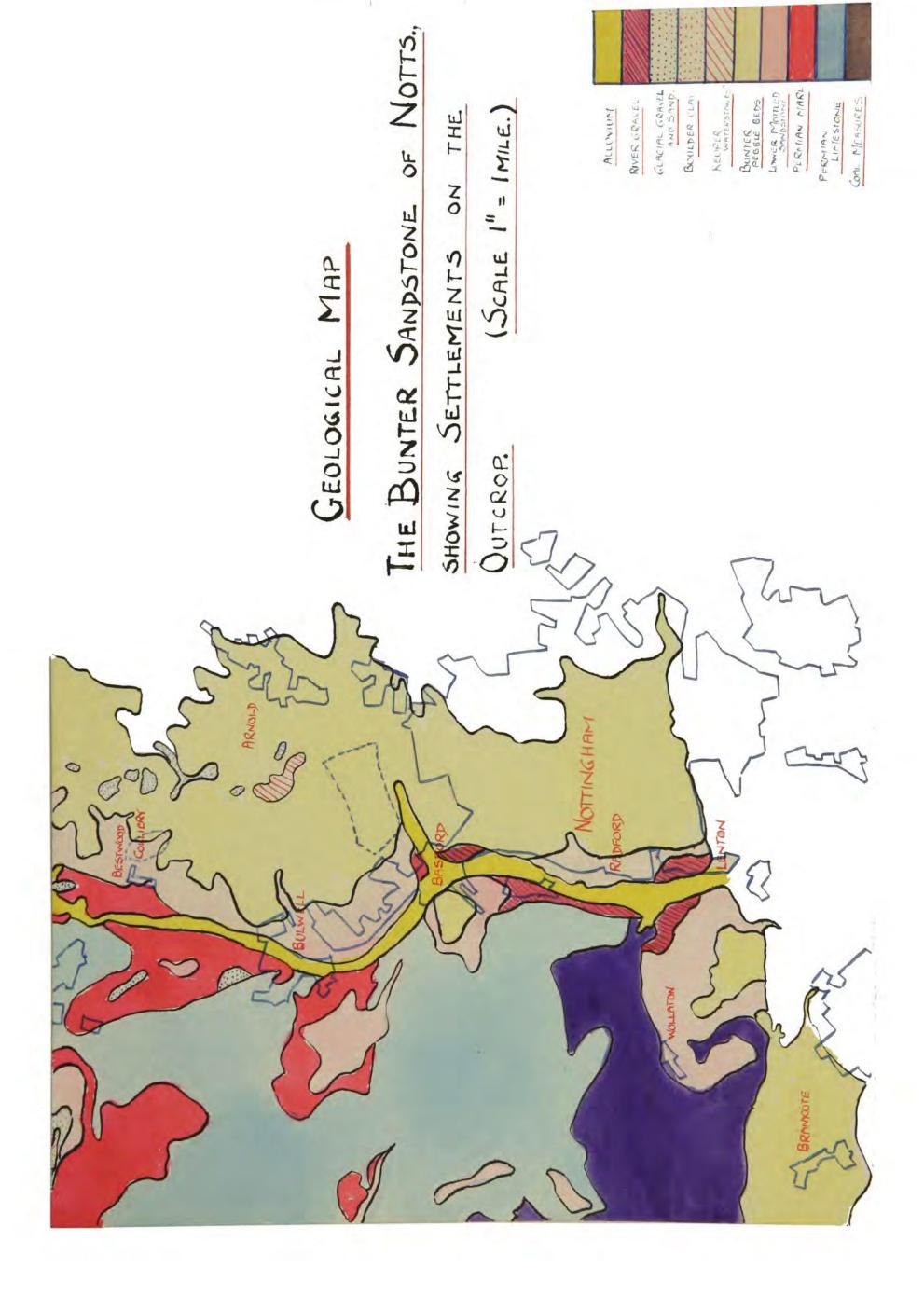


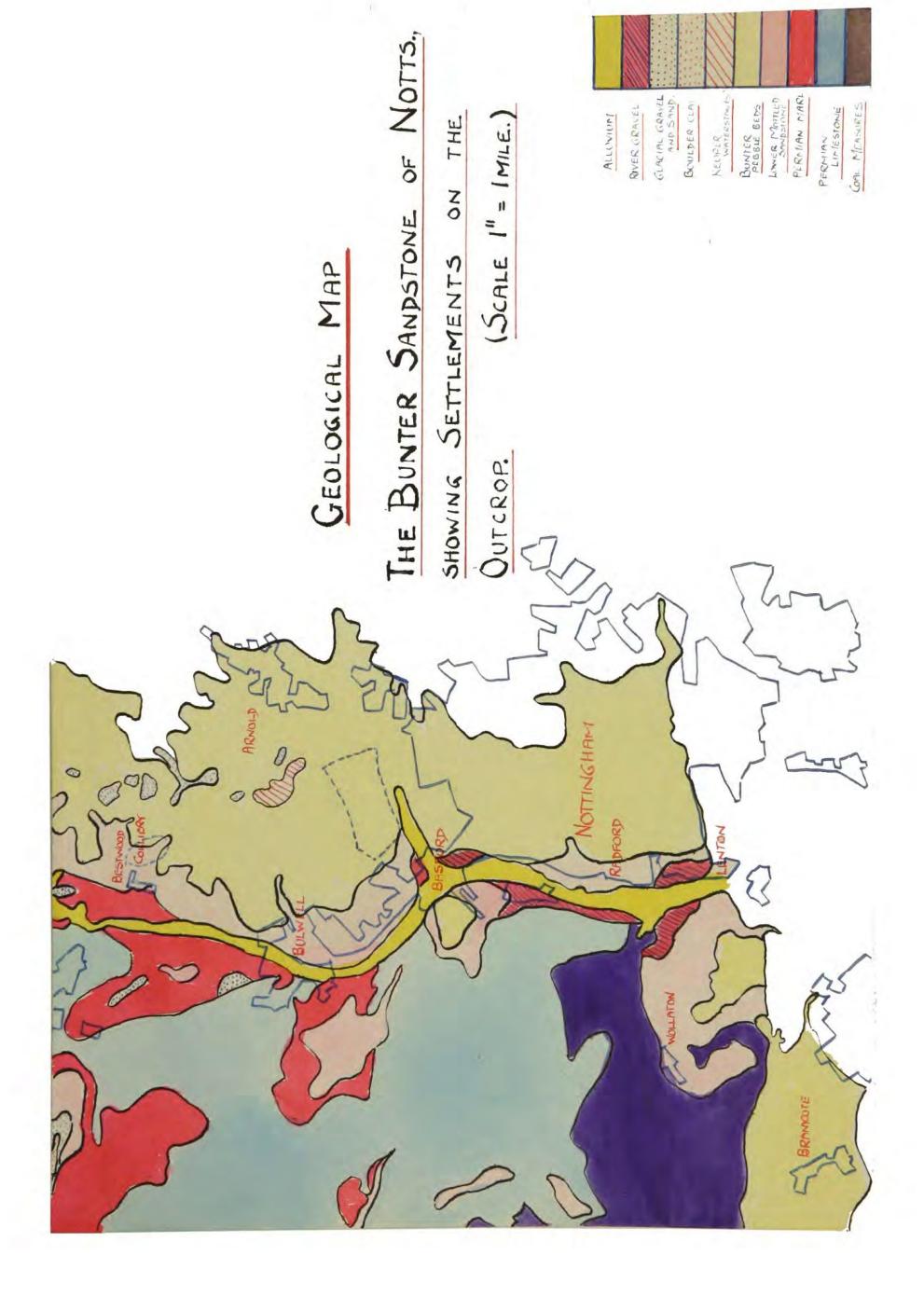


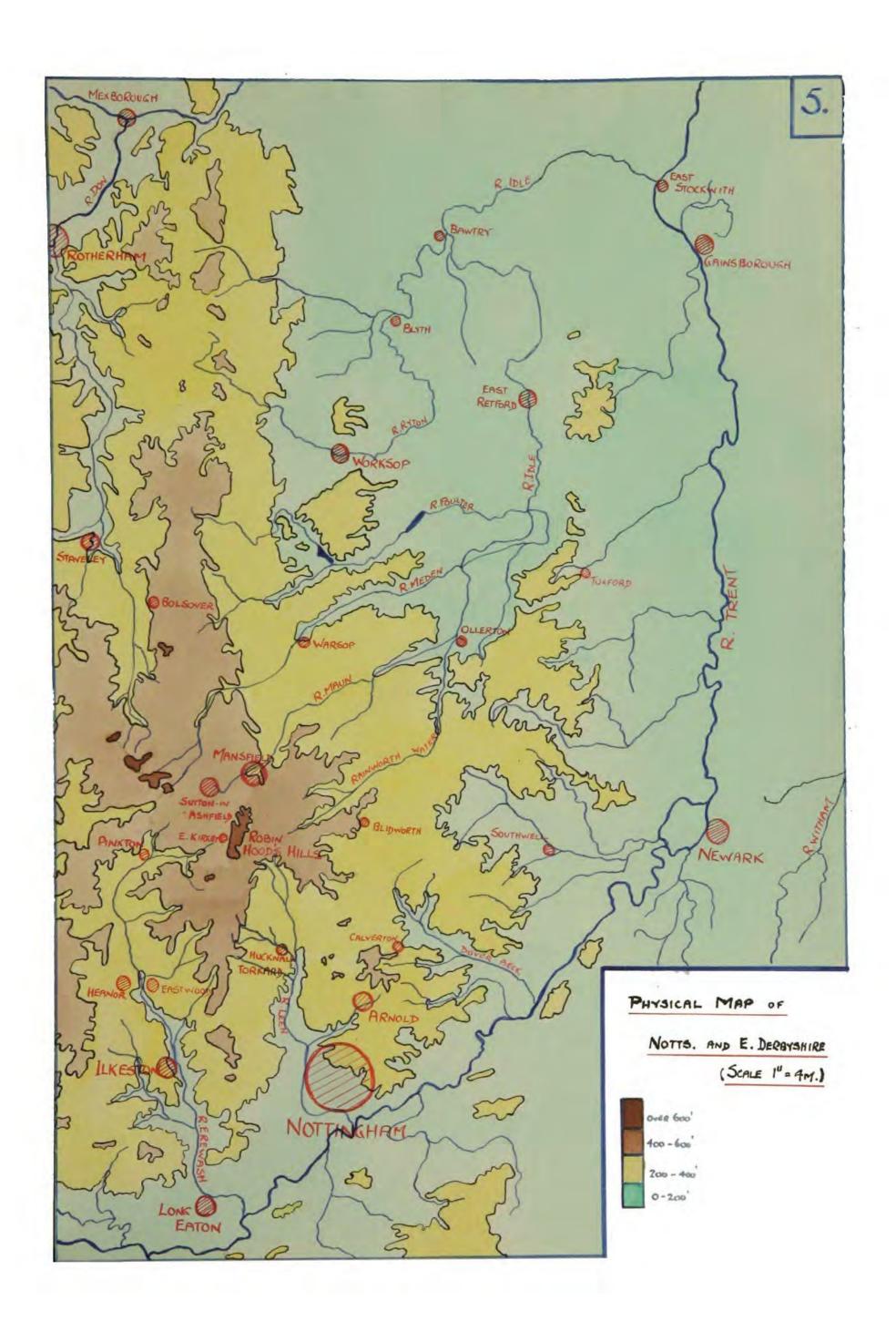


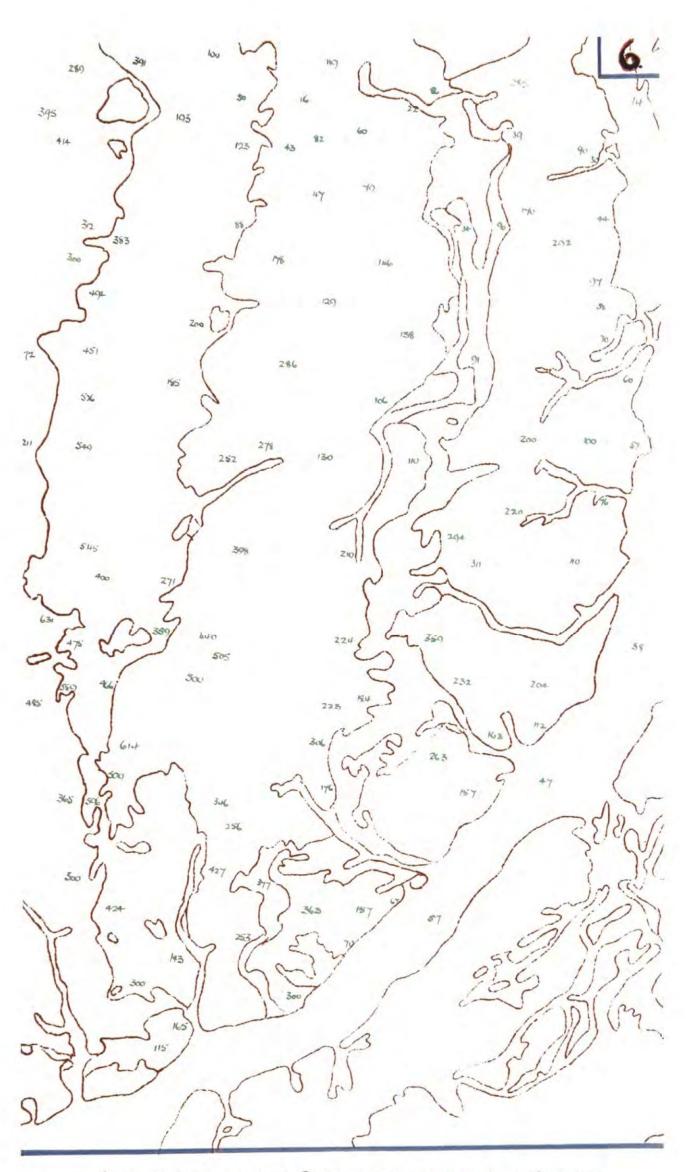












SPOT HEIGHTS ON THE BUNTER AND NEIGHBOURING OUTCROPS.

R. Perron R.RYTON BAWTRY. VERTICAL SCALE 1"=1000 ft. VERTICAL EAR. \$ 28

CLIPSTONE FOREST

RUFFORD FOREST

R. MAUNI CLIPSTONE

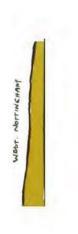
BIRKLAND

R. Mesen Buper

THORESBY R. POLTER CARBURTON

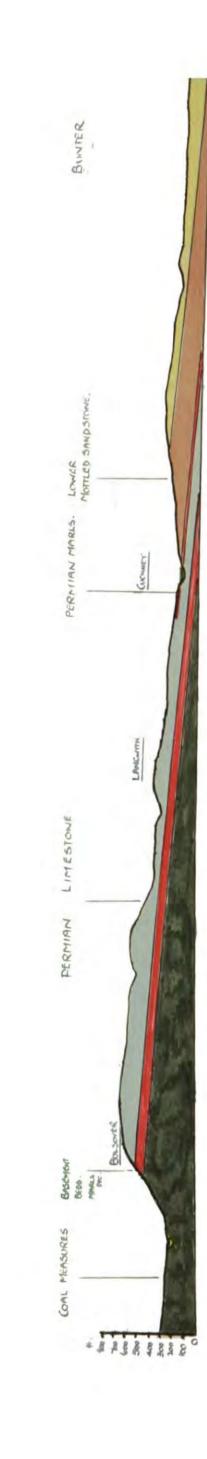
CLUMBER

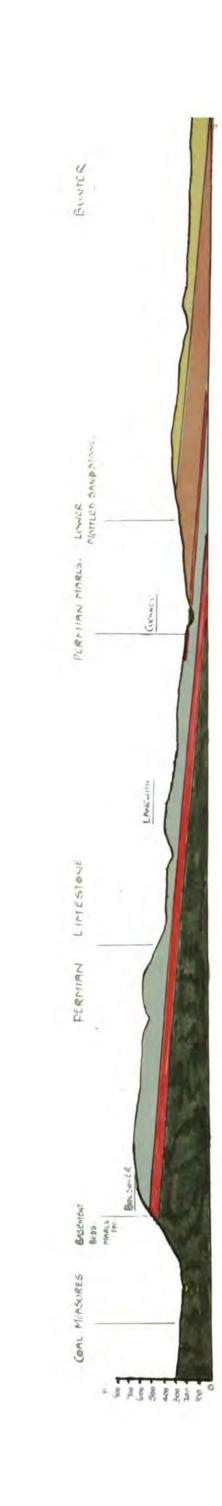
BASFORD DAY BROOK LONG

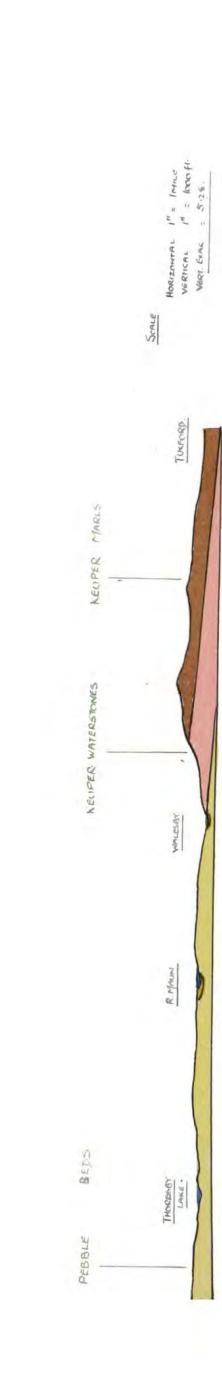


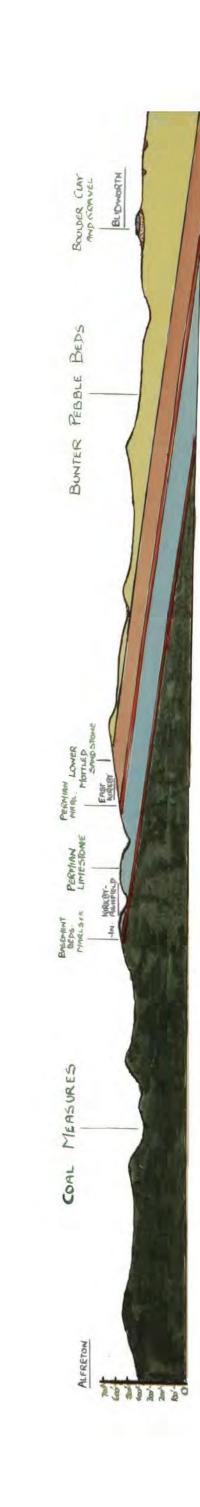
R. FEYTON + BAWTRY. VERTICAL SCALE 11's 1000 fc. VERTICAL SCALE 5.38

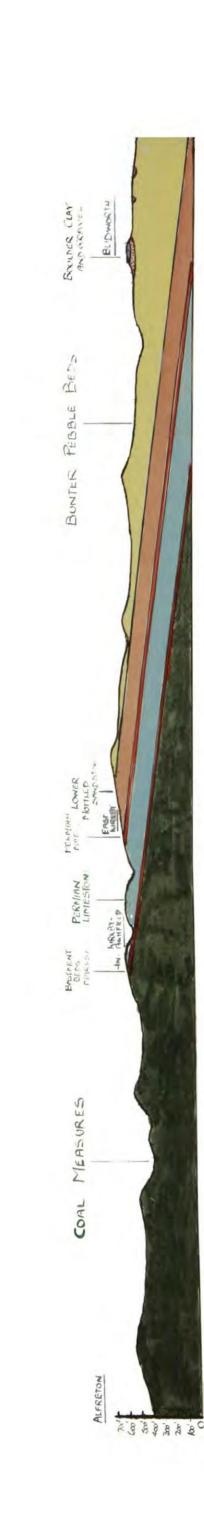
DAY BROOK BESTWOOD





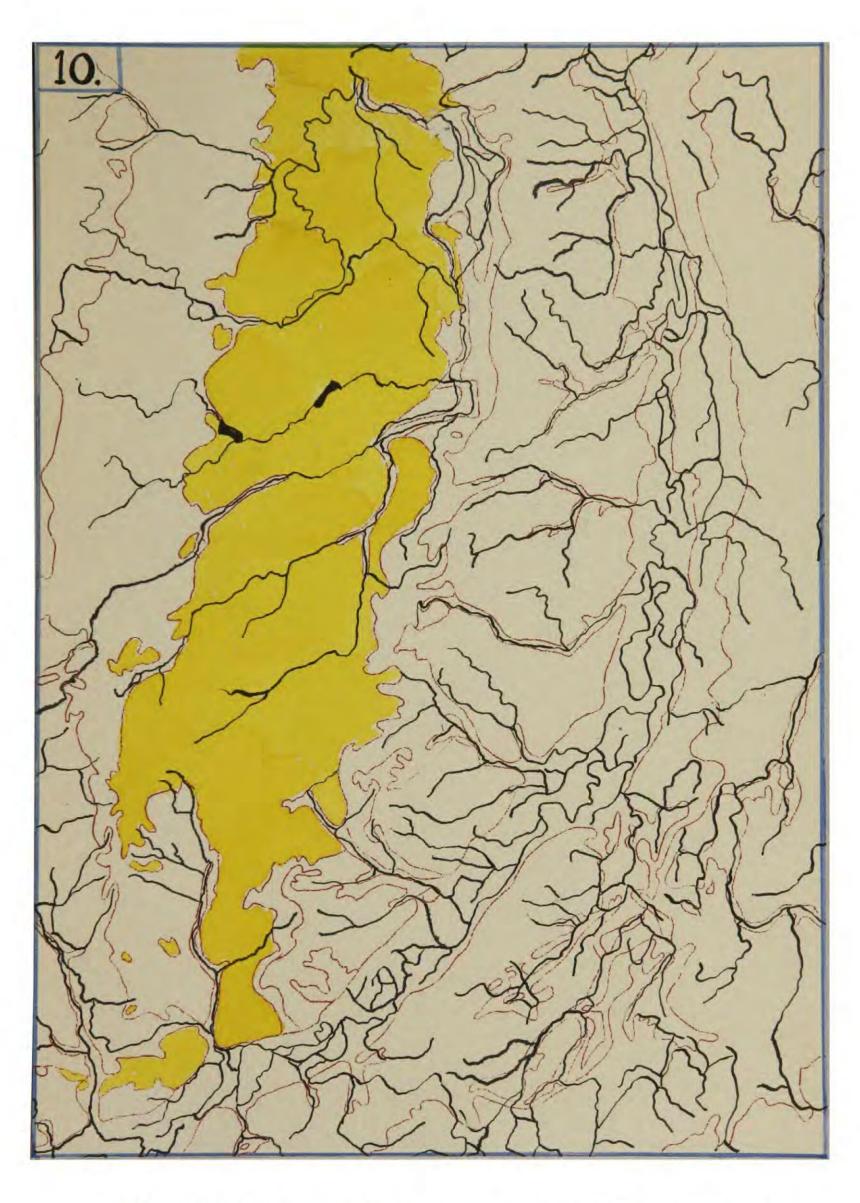






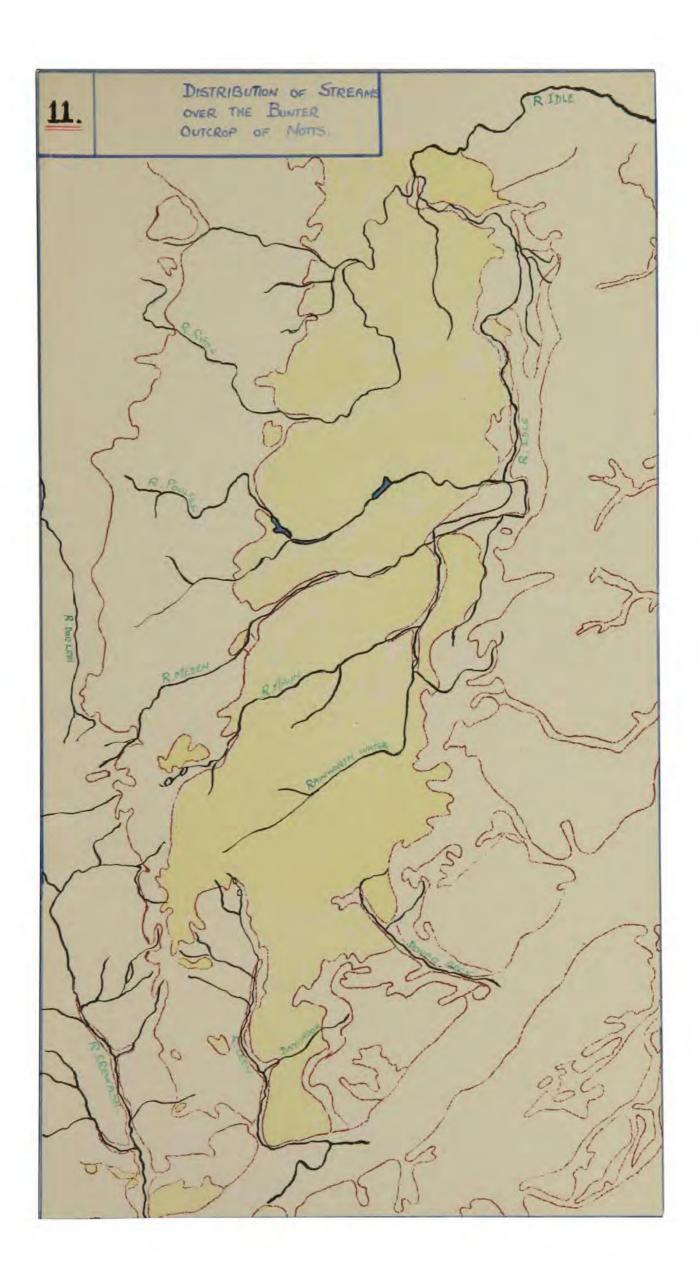
KEUPER MARL KEUPER WATERSTONES EDMIGLEY

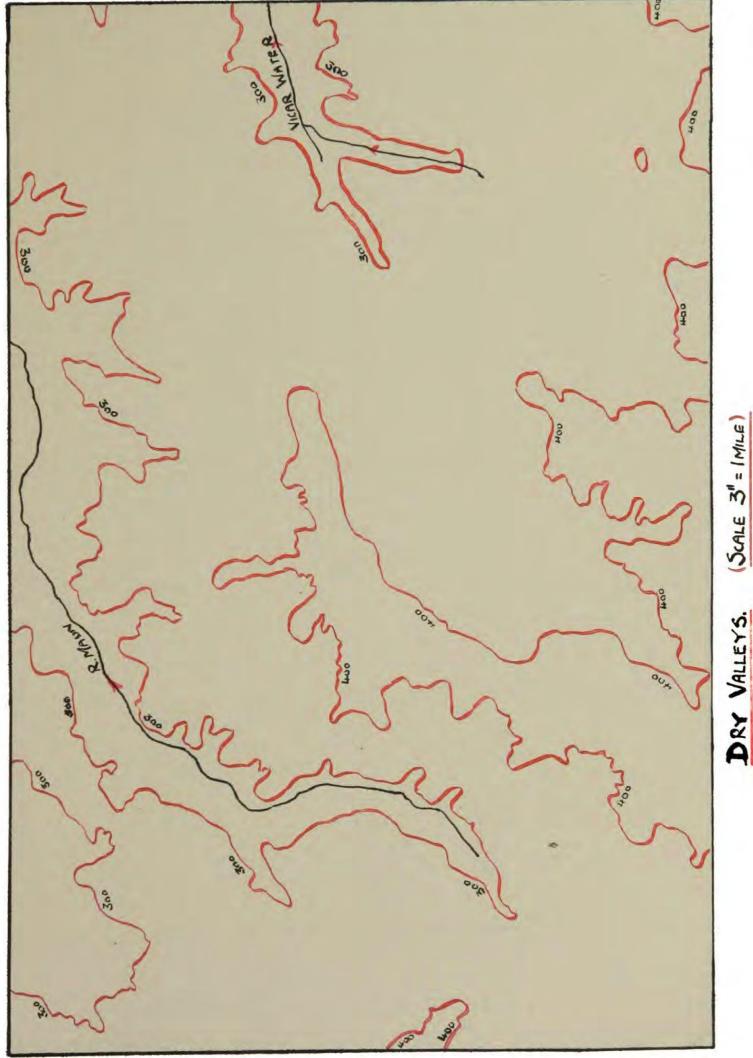
SCALE HCRIZONTAL I" = IMILE.
VERTICAL I" = 1000 ft



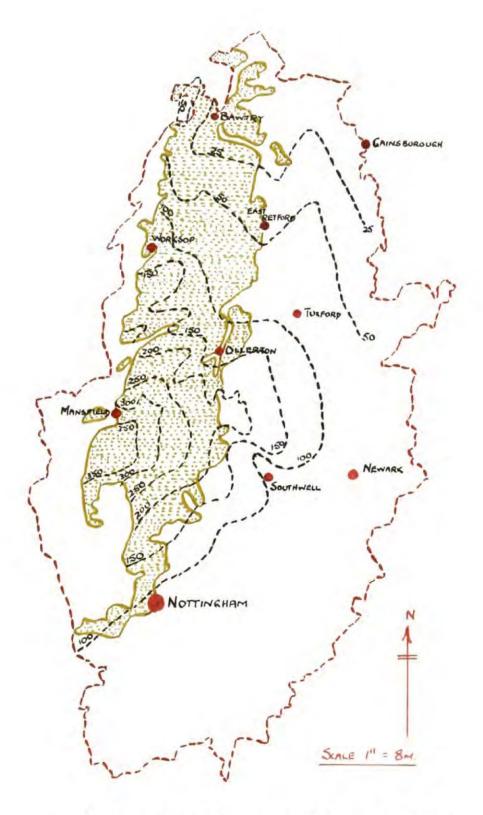
DISTRIBUTION OF STREAMS OVER NOTTINGHAMSHIRE

AND EAST DERBYSHIRE. Scale 1/4" = 1 MILE.





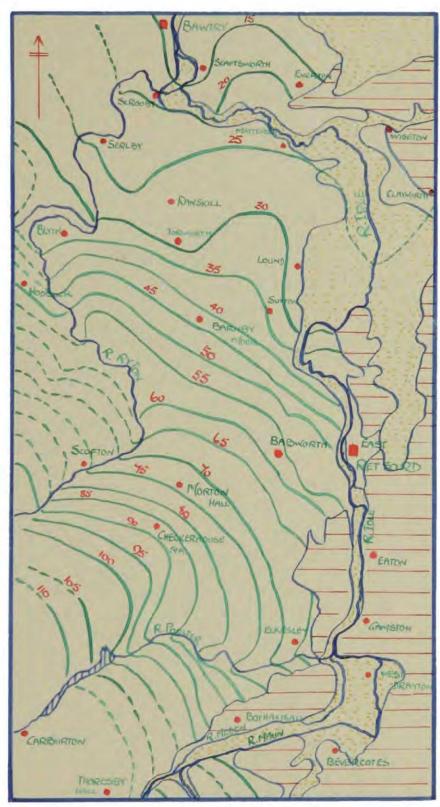
DRY VALLEYS.



UNDERGROUND WATER OF NOTTINGHAMSHIRE

CONTOURS IN FT. ABOVE OP.

FROM RCS WALTERS. P. 89
"Scientific Survey of Nottingham"



NORTHERN PART OF BUNTER OUTCROP OF MOTTS, SHOWING UNDERGROUND WATER-LEVEL, (1909).

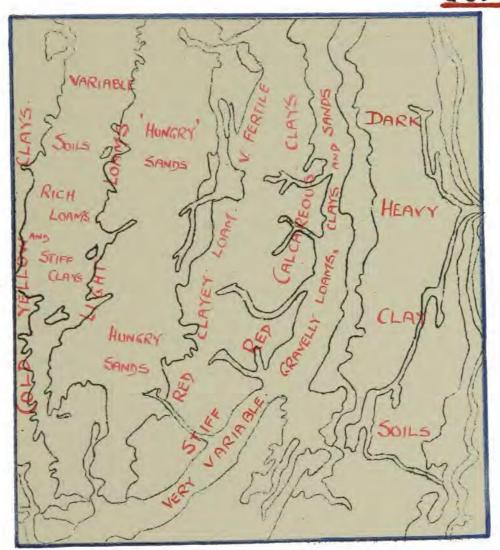
FROM WATERSUPPLY OF NOTTS" A.T. LAMPLUCH AND SMITH

(ONTOUR FIRS . IN Fr. OP . (ABOVE SEALEVEL)

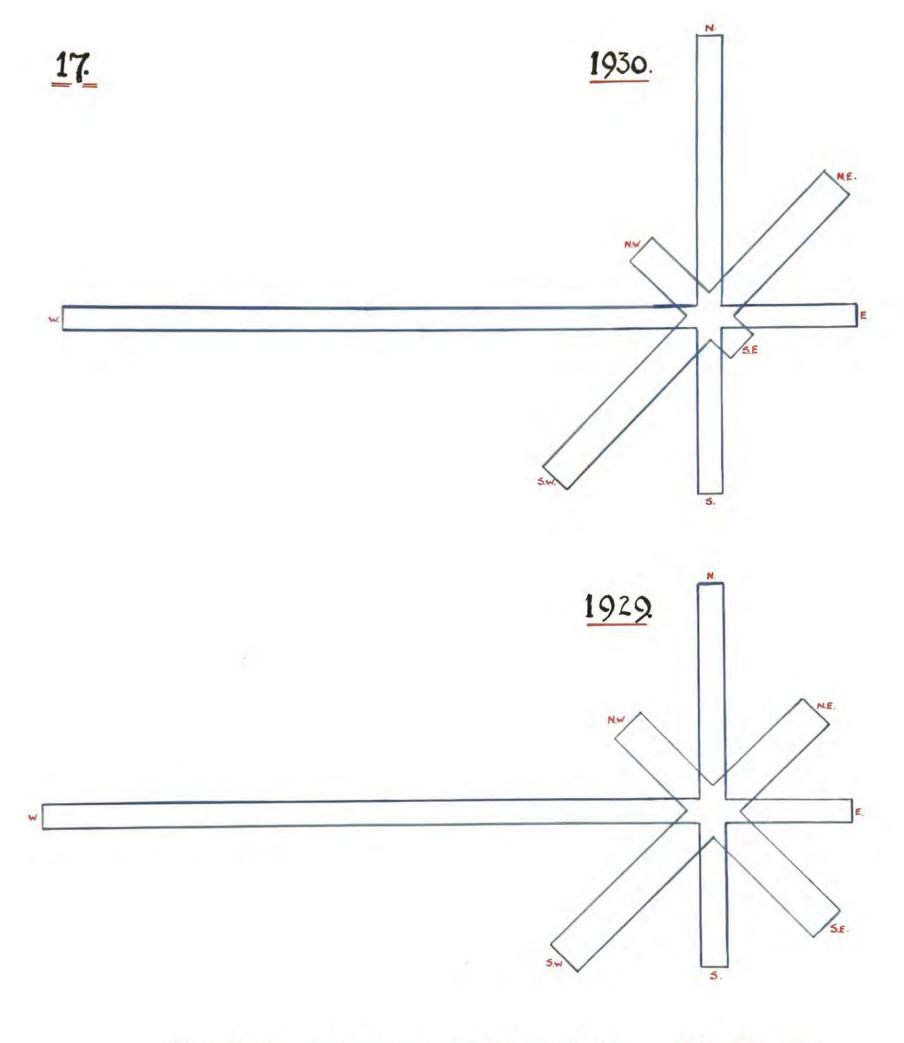




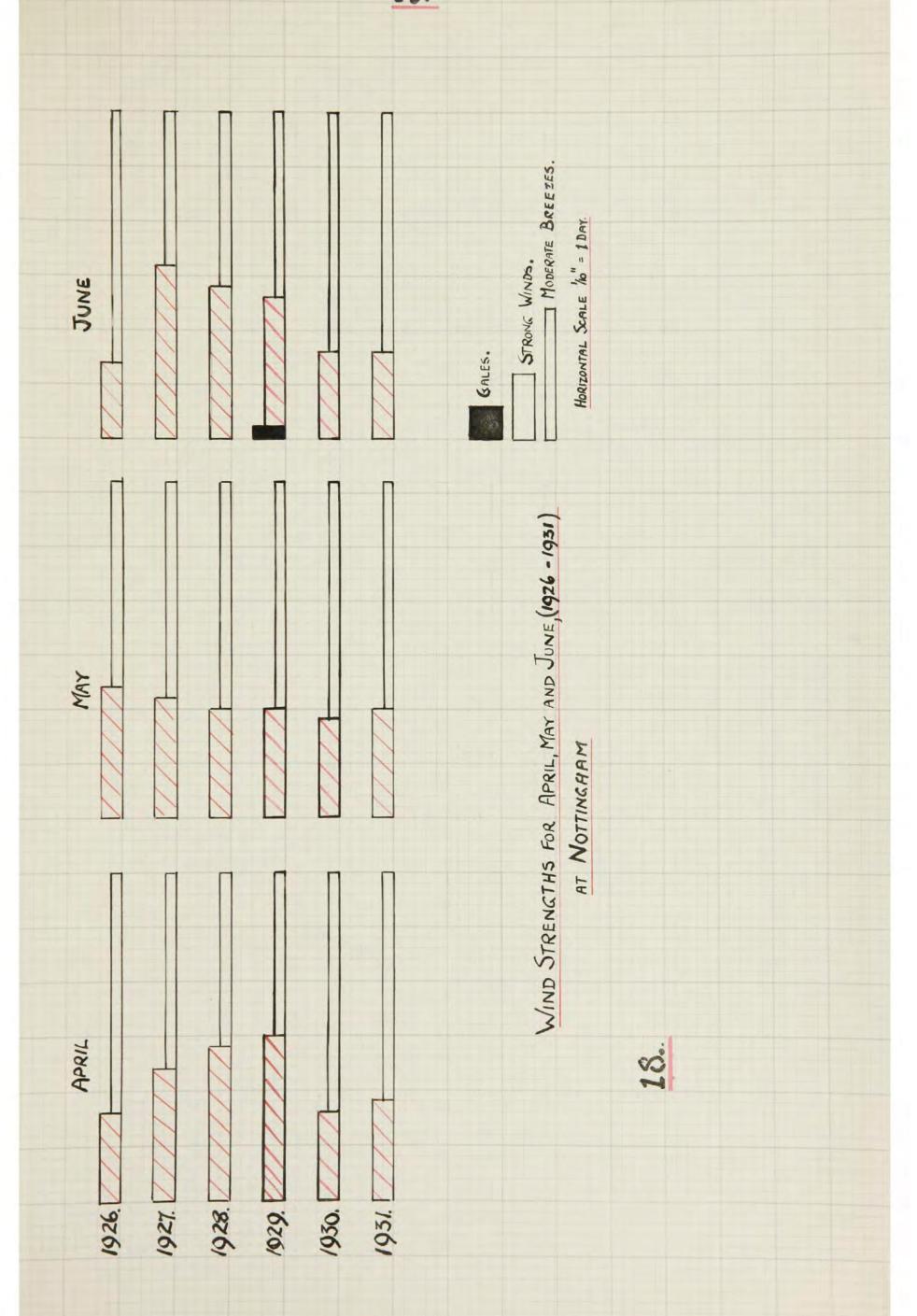
WATER TABLE CONTOURS AND SPOTHEIGHTS ON BUNTER OUTCROP FT. ABOVE O.D.

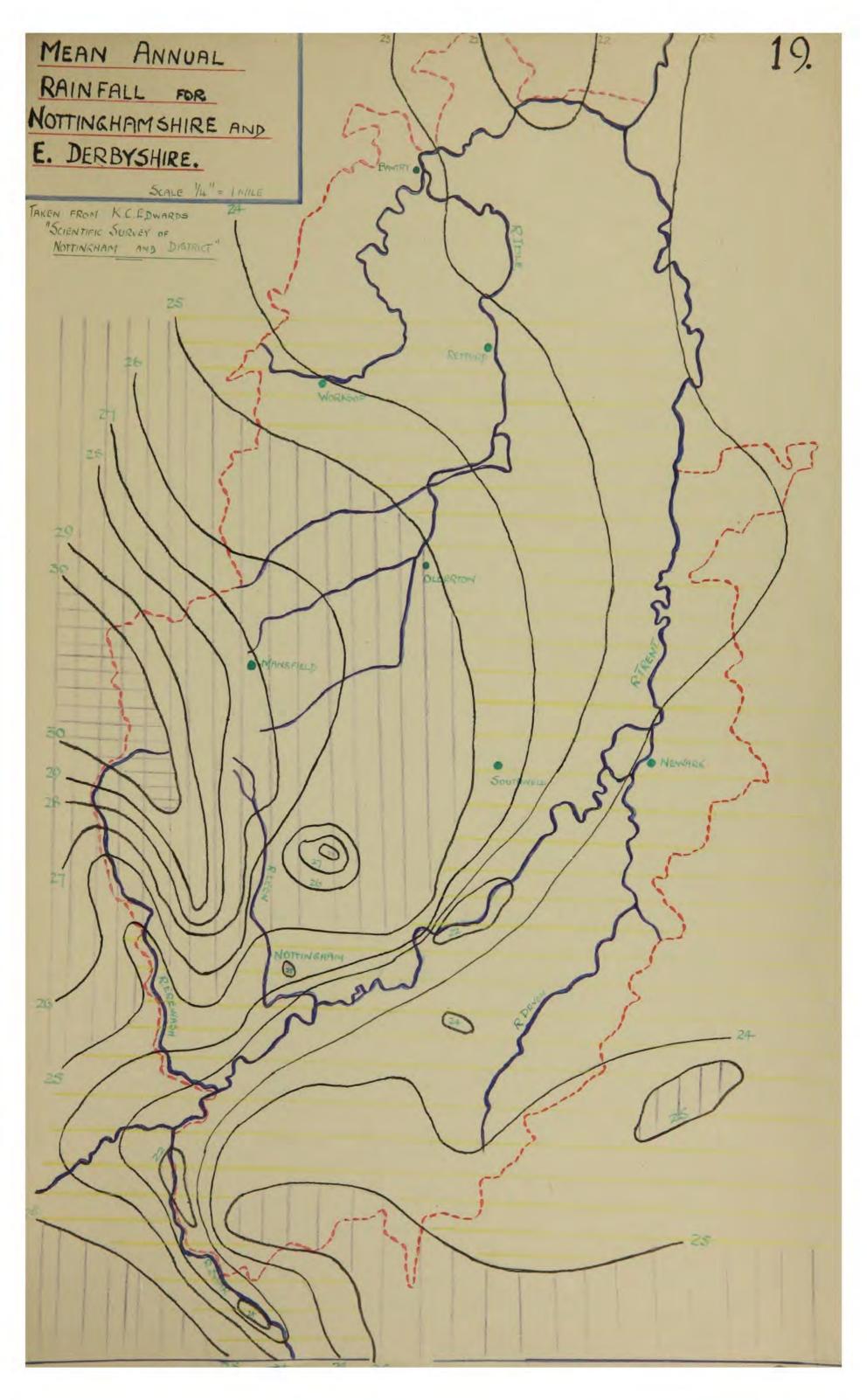


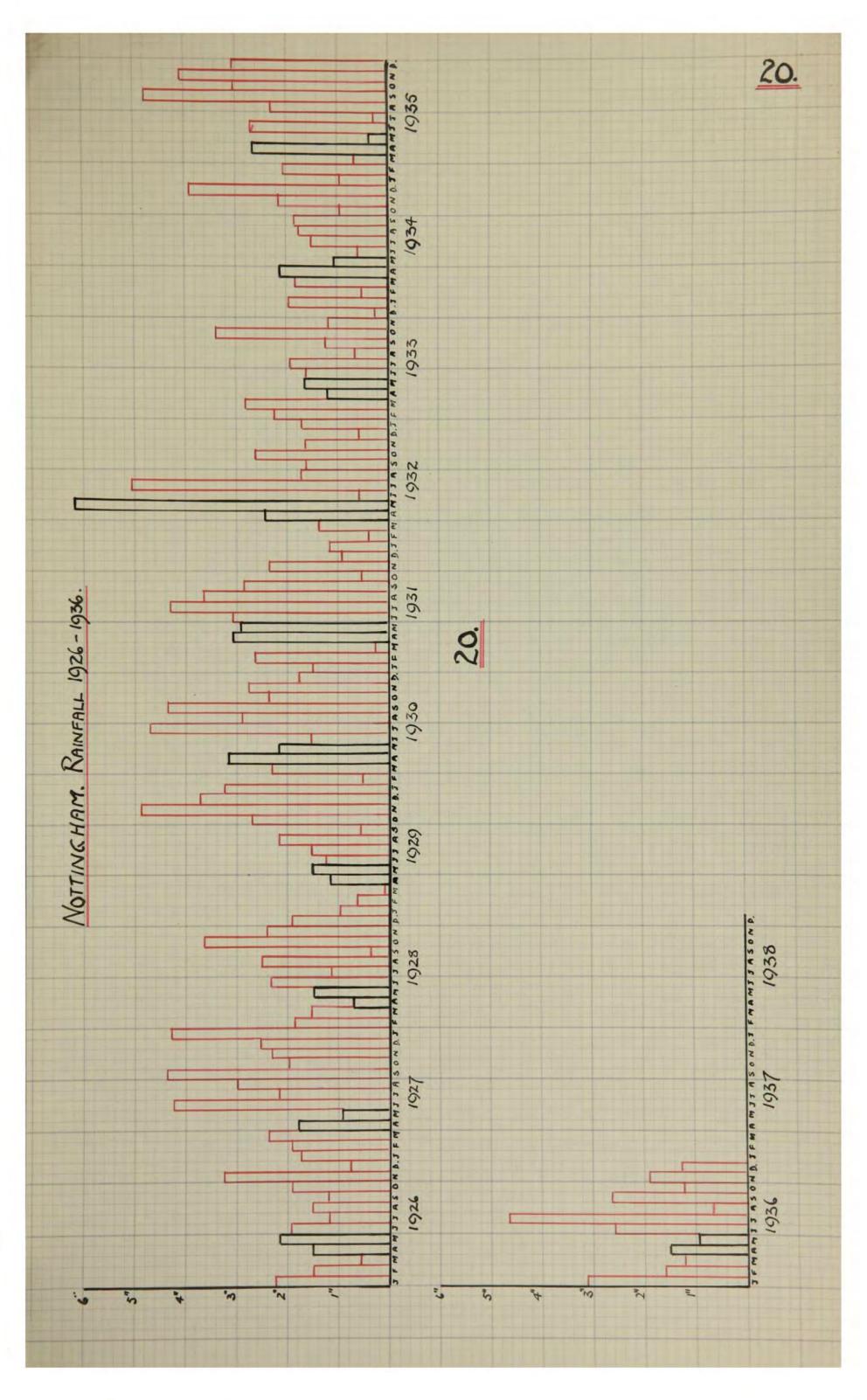
DISTRIBUTION OF SOILS.

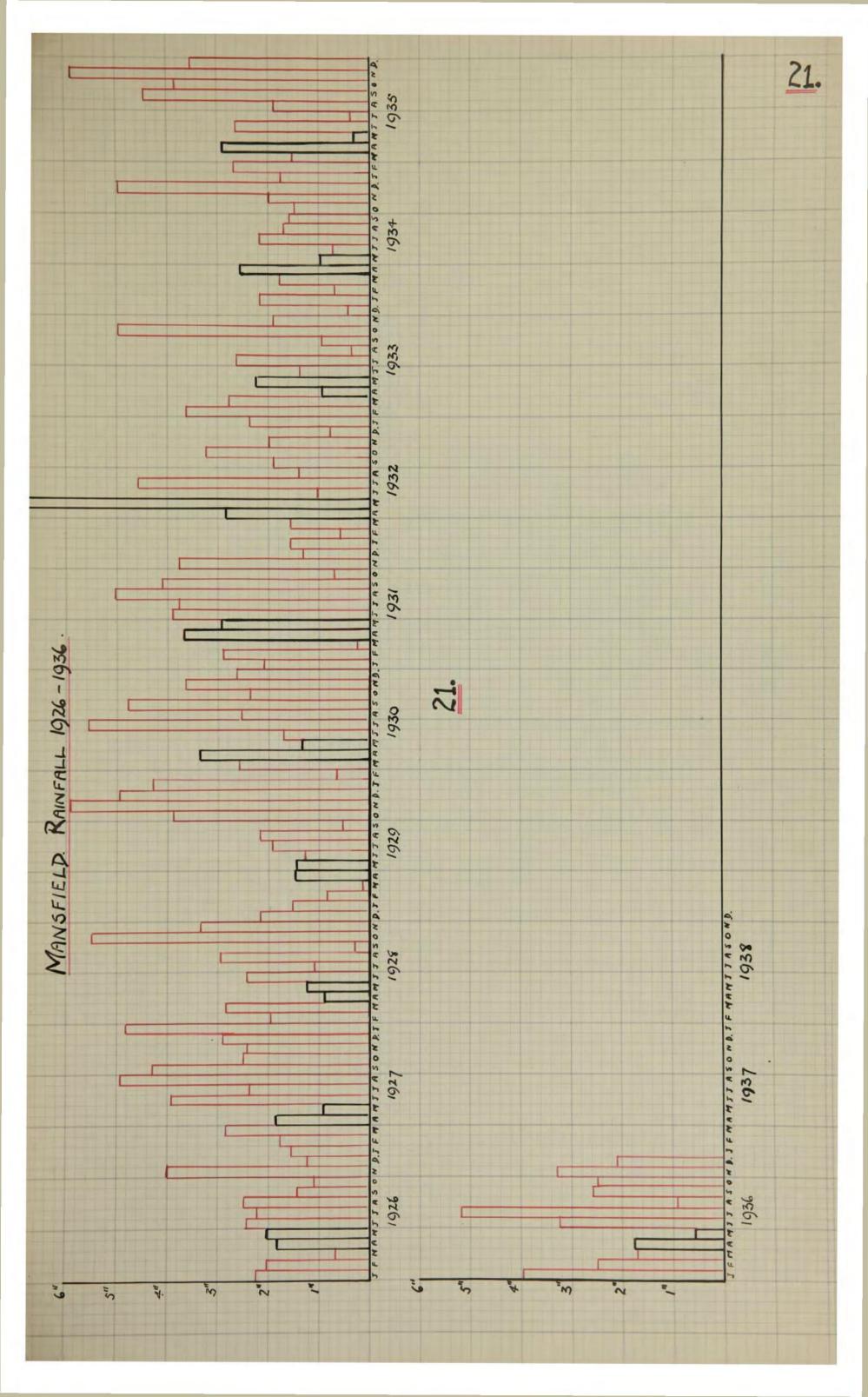


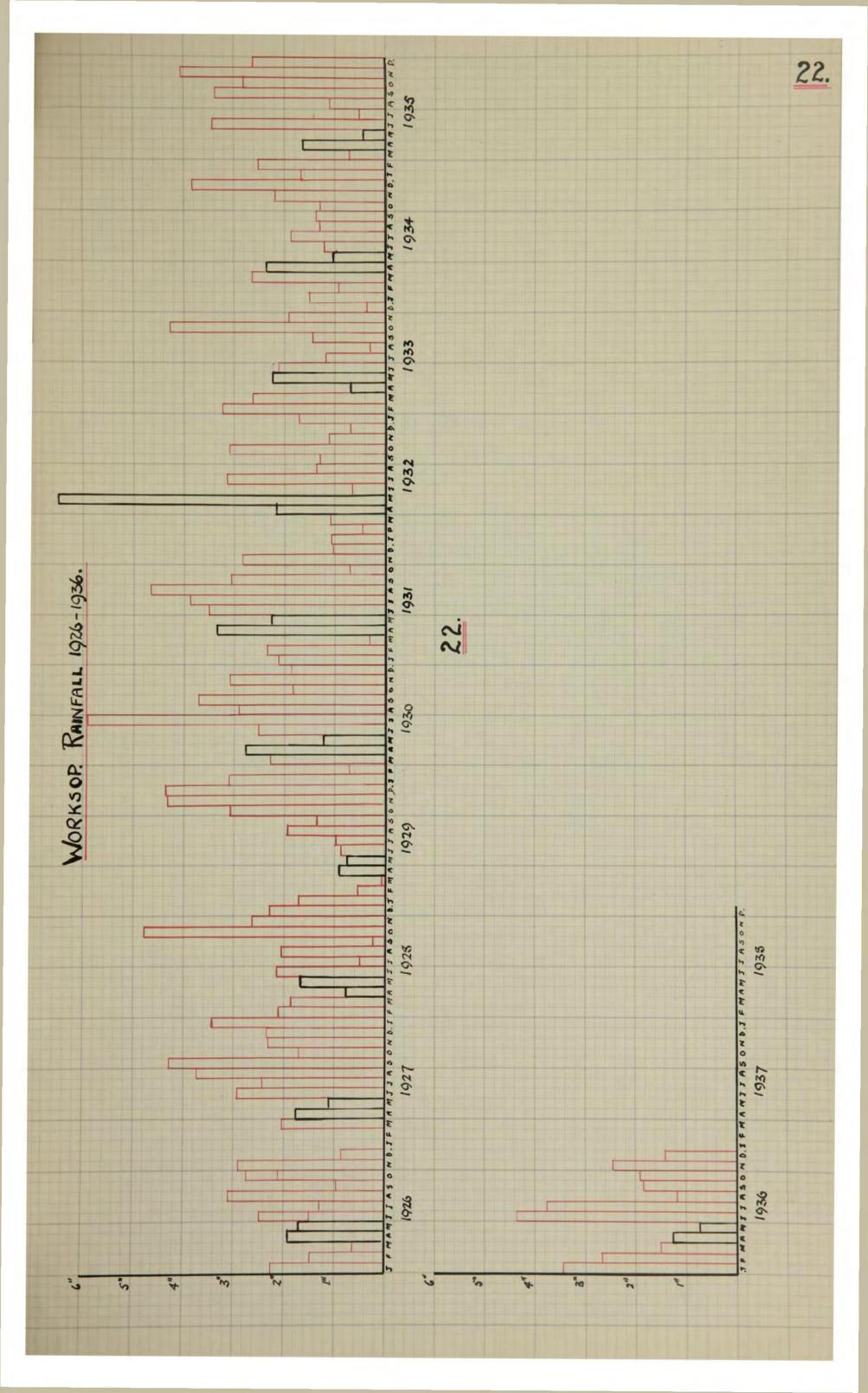
WIND DIRECTIONS. NOTTINGHAM. 1929 AND 1930. SCALE. IMM. = 1 DAY

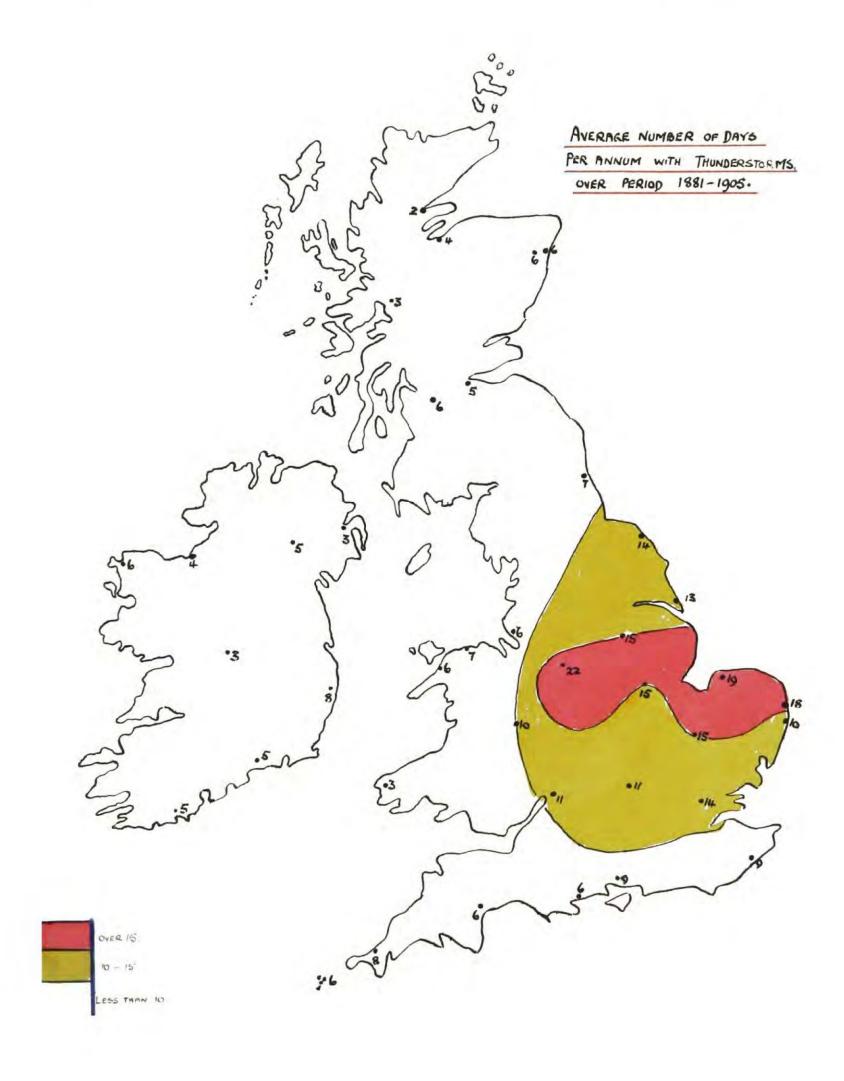




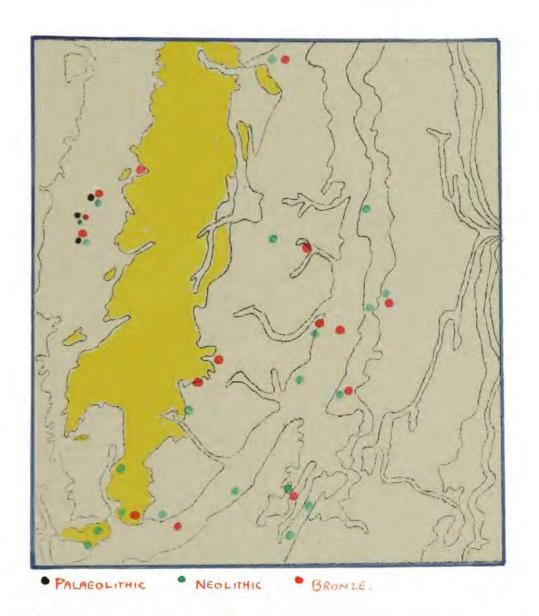




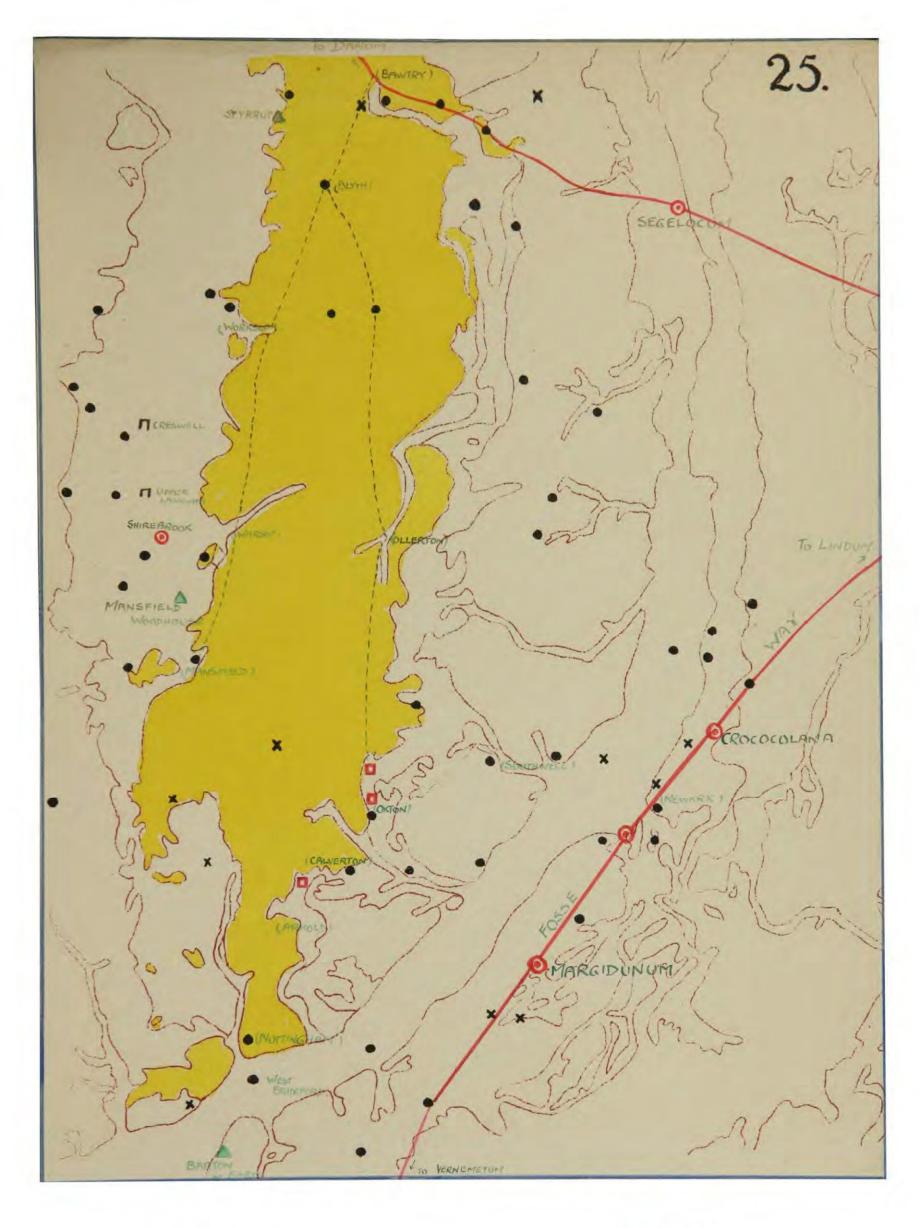




24.



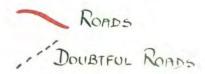
DISTRIBUTION OF PALMOLITHIC, NEOLITHIC AND BRONZE REMAINS.

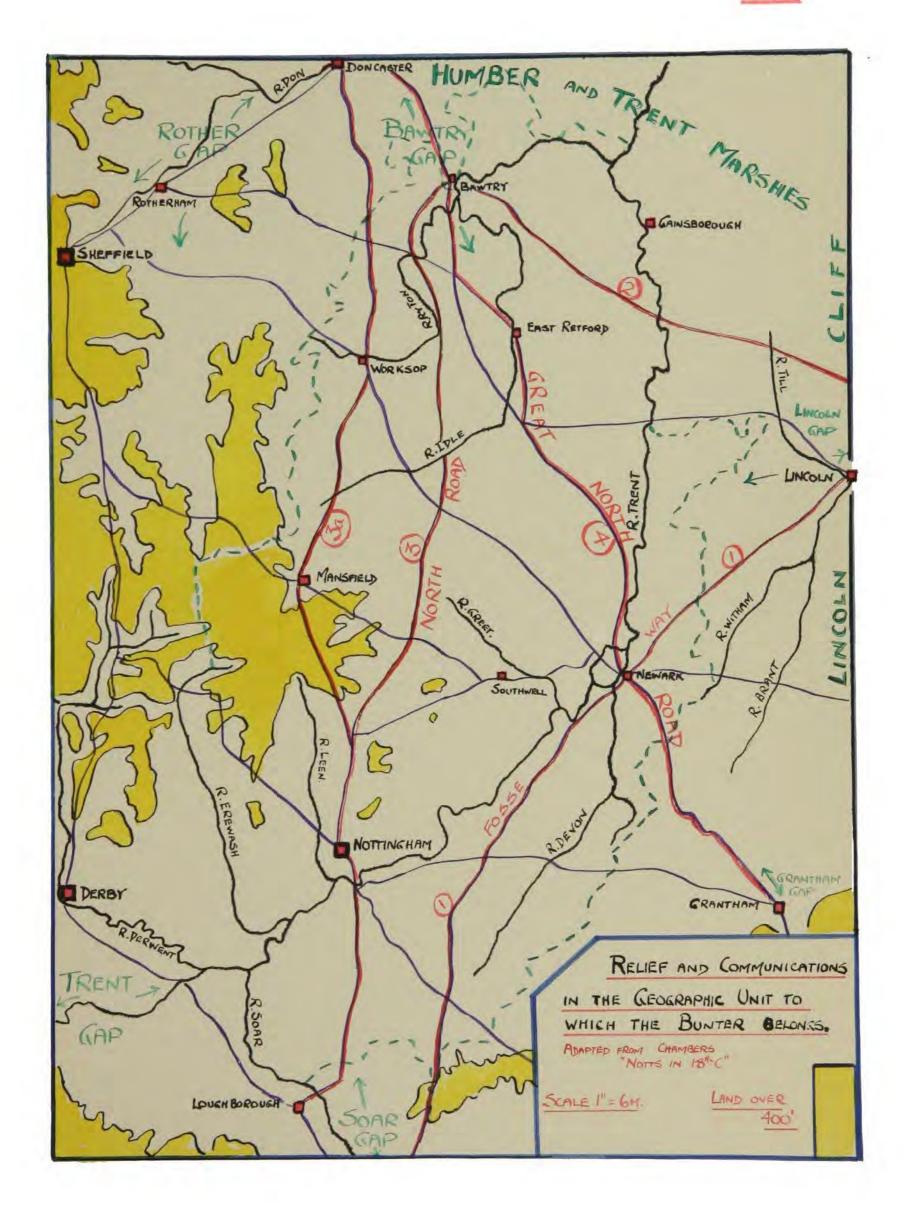


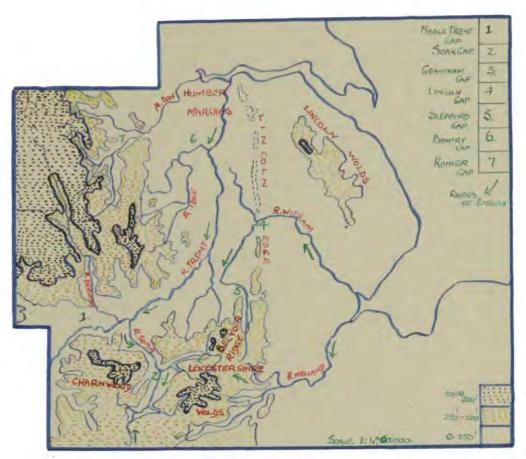
DISTRIBUTION OF

ROMAN REMAINS.

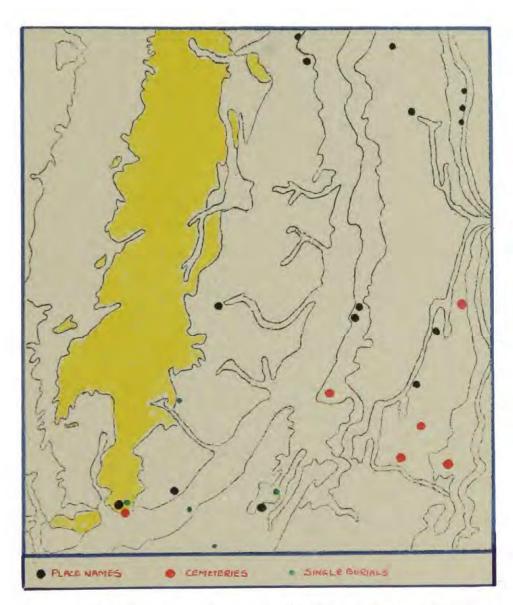
- O VILLAGES.
- VILLAS.
- AVES.
- CAMPS.
- · SMALL FINDS.
- * DOUBTFUL FINDS



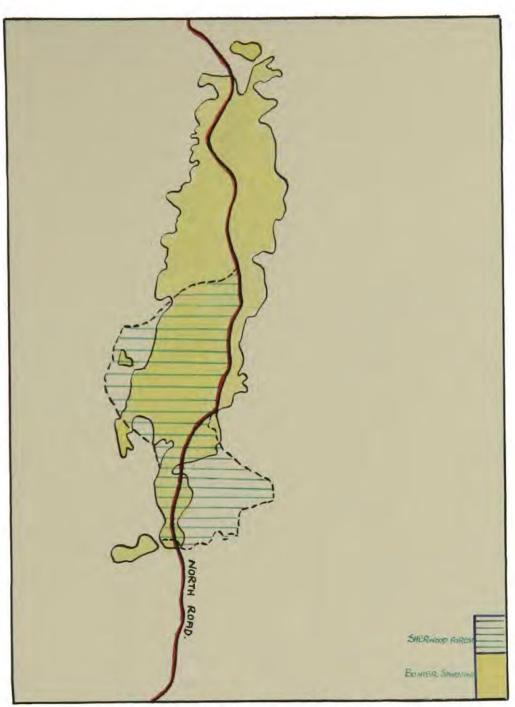




THE ENTRY OF THE ENGLISH.



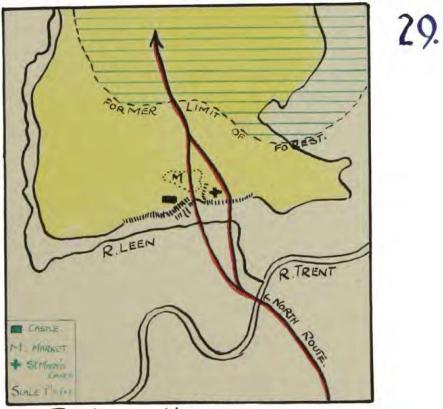
DISTRIBUTION OF PLACE NAMES ENDING IN - ING AND - INCHAM, AND OF ENGLISH
CEMETERIES.



THE EXTENT OF THE SHERWOOD FOREST

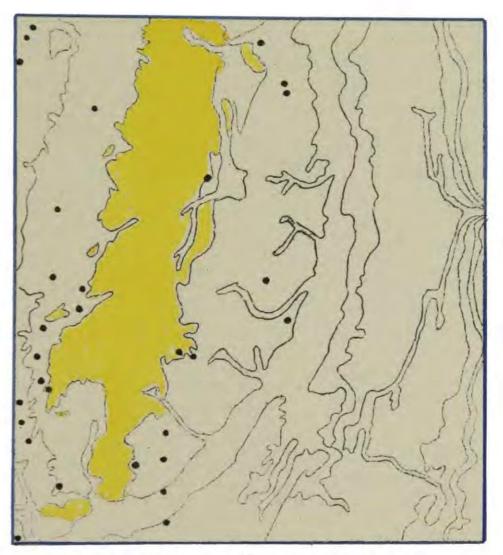
IN THE 12" AND 13" CENTURIES.

ADAPTED FROM "ECOLOGY OF BUNTER
SANDSTONE" (J.OF. EC. 1927
FEB.)

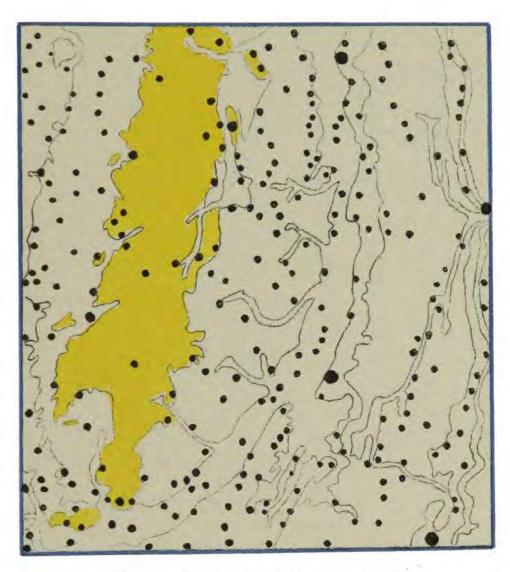


THE SITE OF NOTTINGHAM.

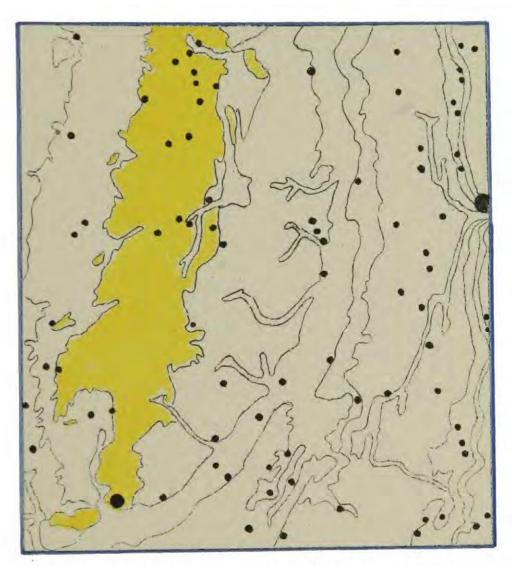
FROM EDWARDS. "SCIENTIFIC SURVEY OF NOTTINGHAM"



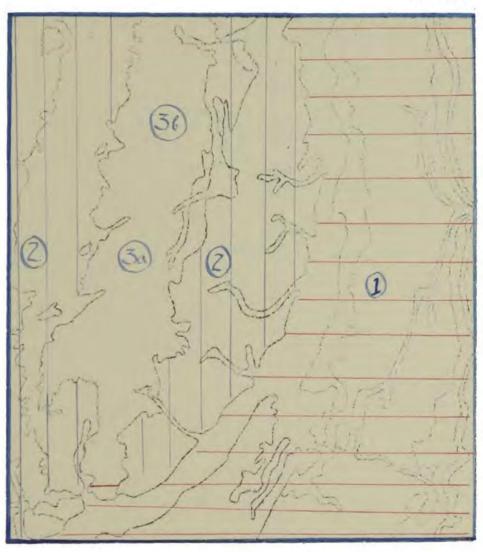
DISTRIBUTION OF PLACE NAMES ENDING IN - LEY, - FIELD AND CONTAINING - WOOD.



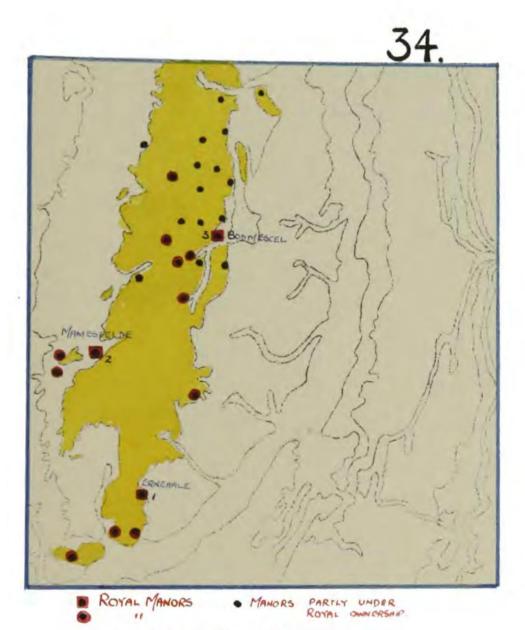
FINAL ENGLISH SETTLEMENTS.



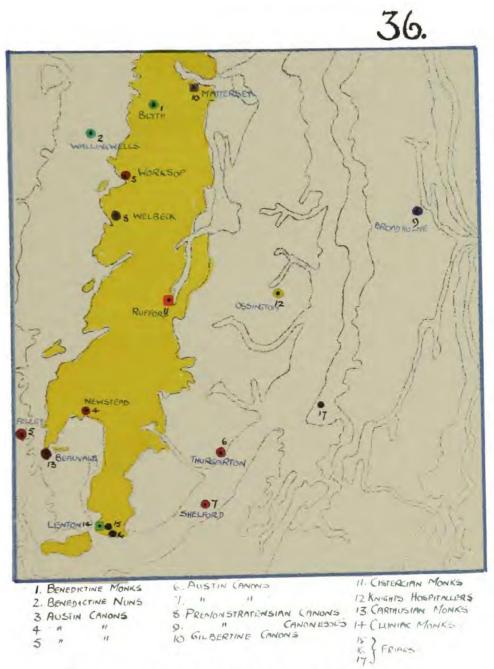
DISTRIBUTION OF SCANDINAVIAN NAMES ENDING IN - BY , - THORPE , - THWATE , AND OF PERSONAL NAMES .



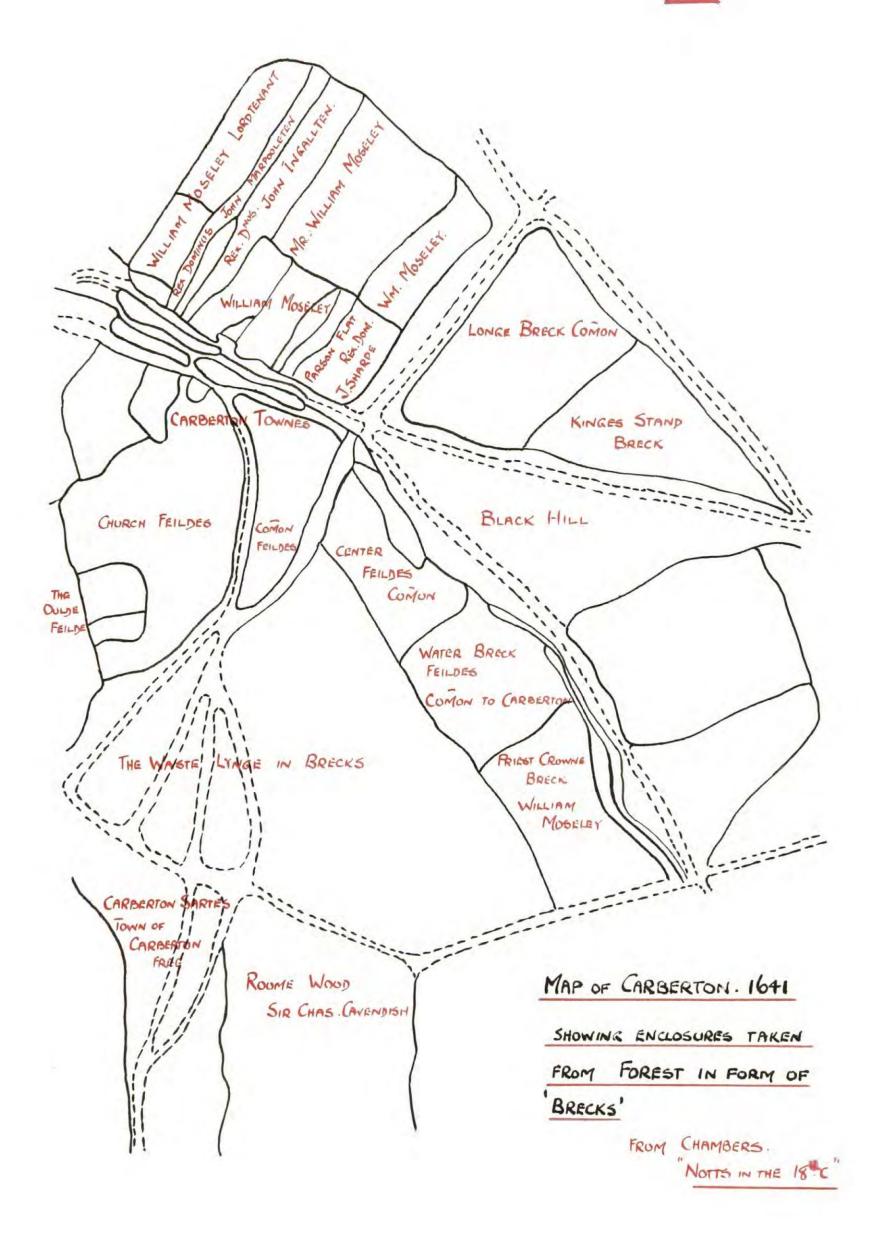
GENERAL ORDER OF SETTLEMENT.

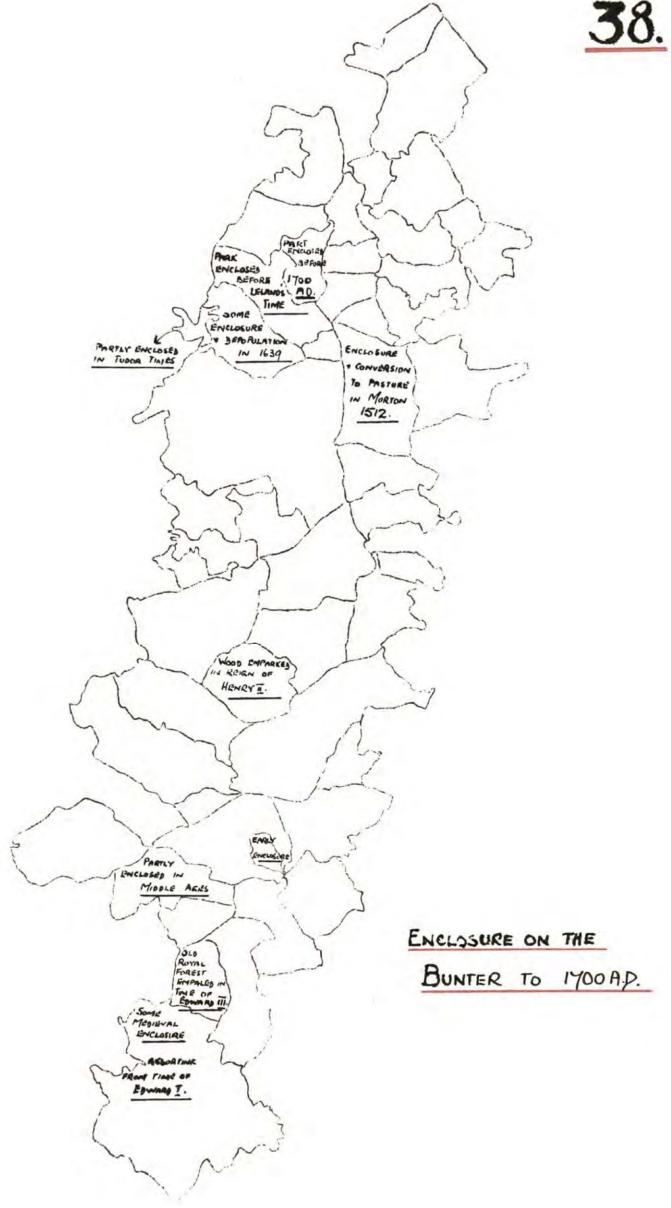


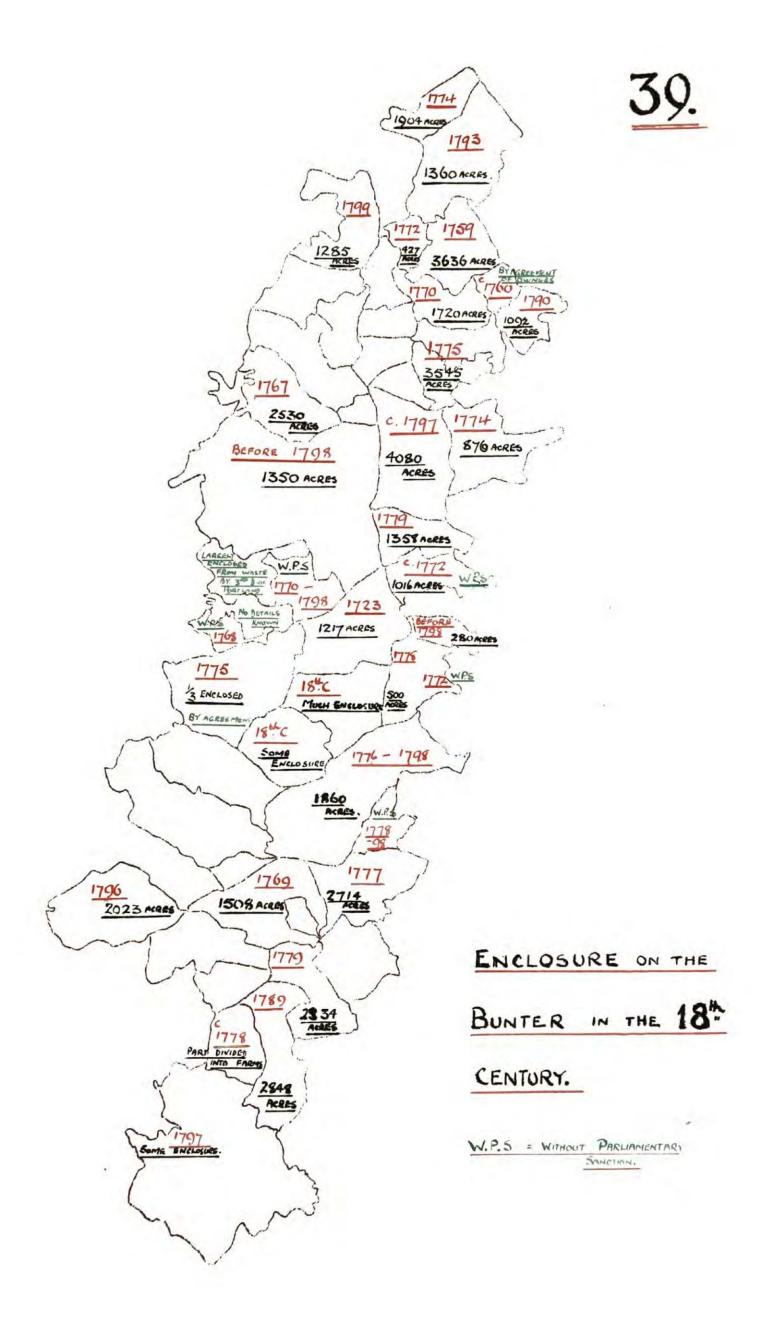
THE KINGS MANORS ON THE BUNTER OUTCROP.

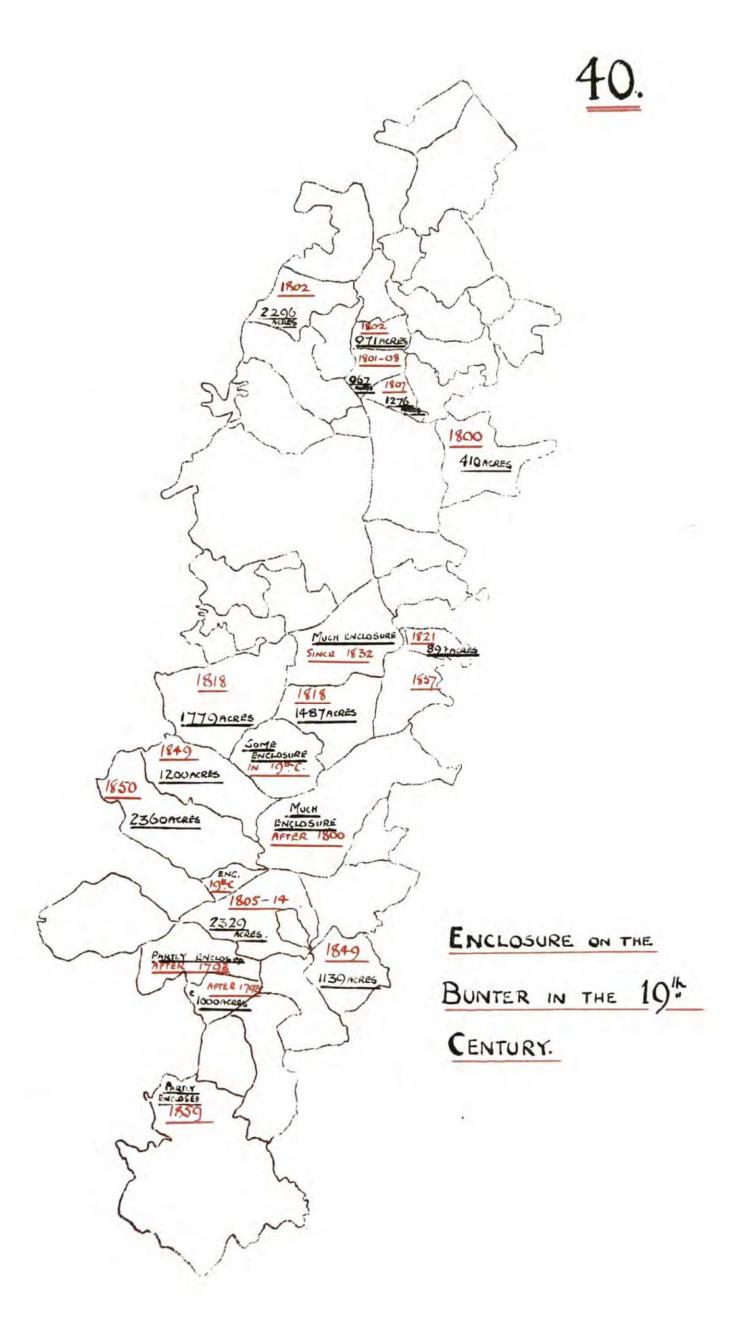


RELIGIOUS HOUSES OF NOTTS.



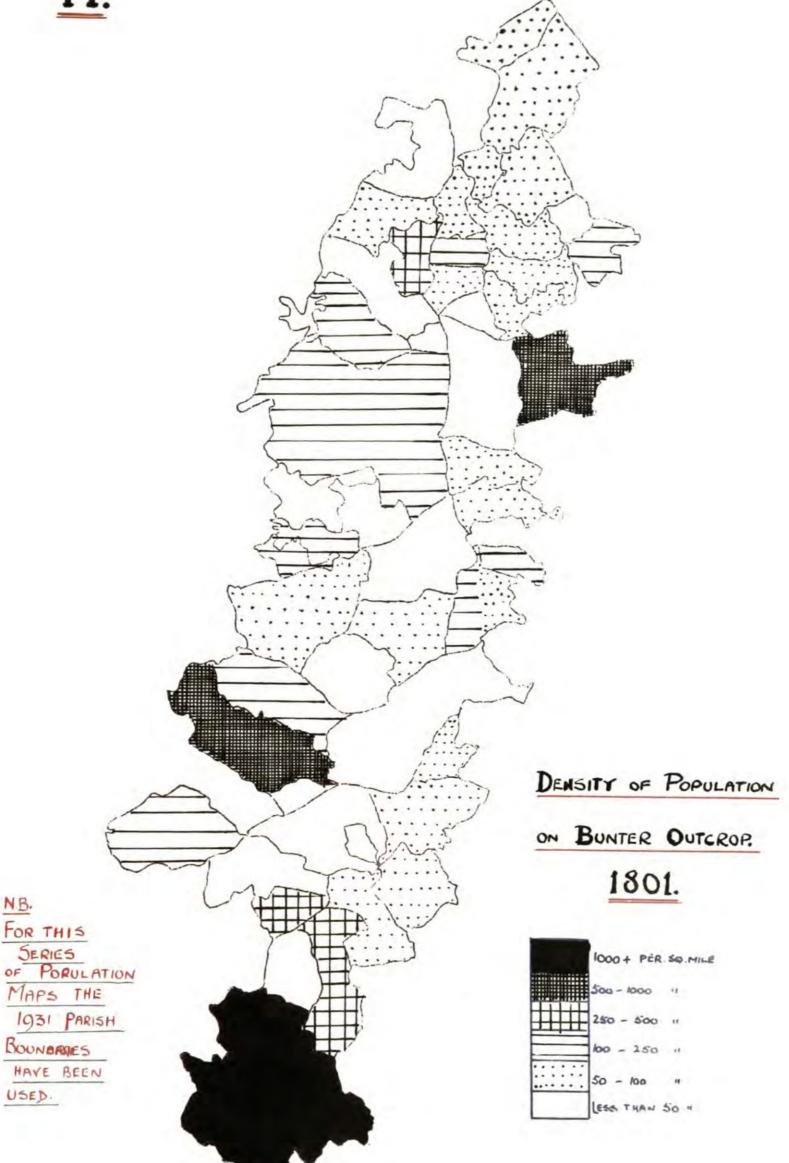


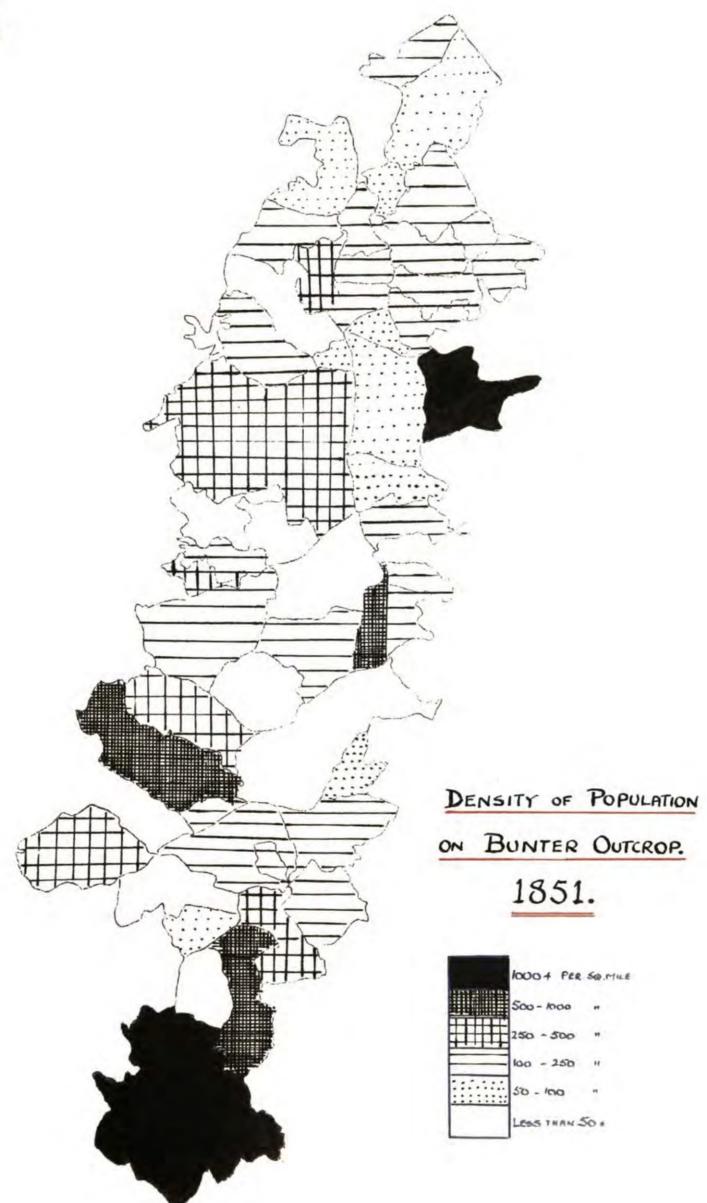


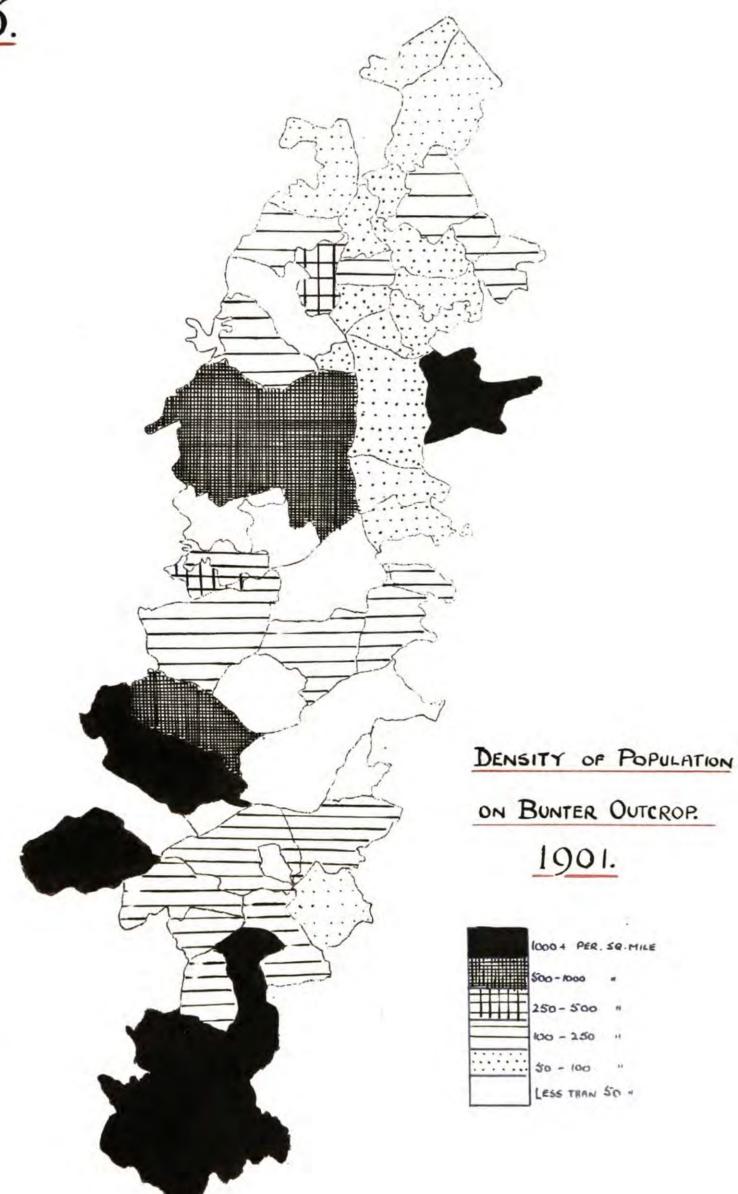


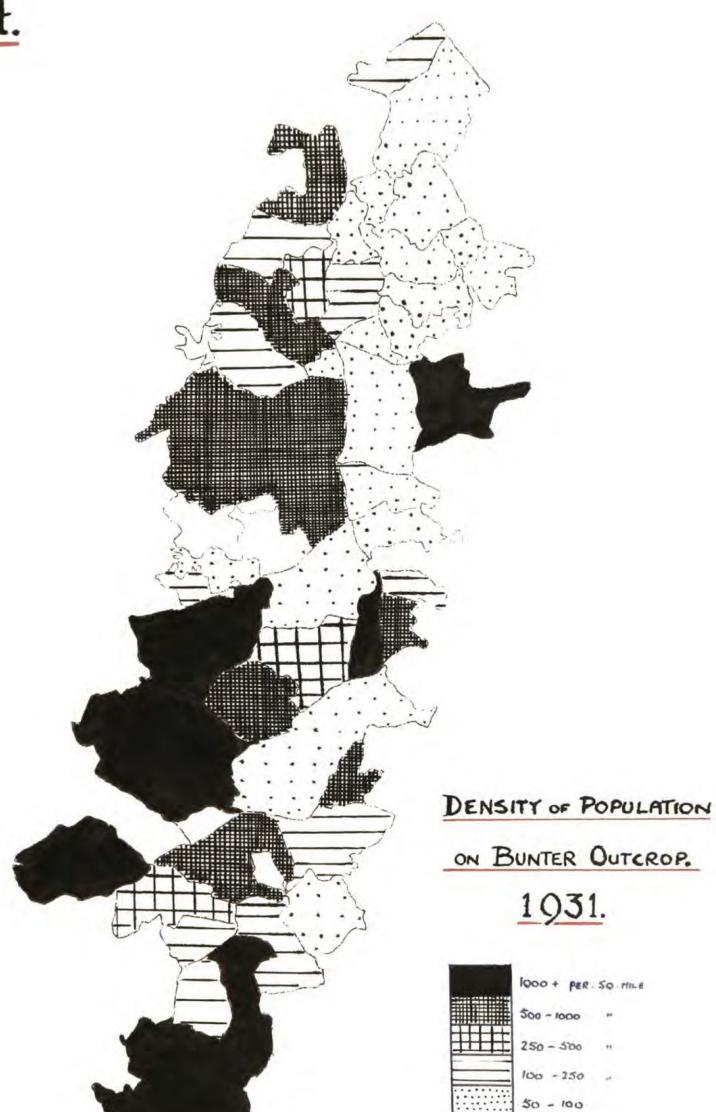
N.B.

USED.

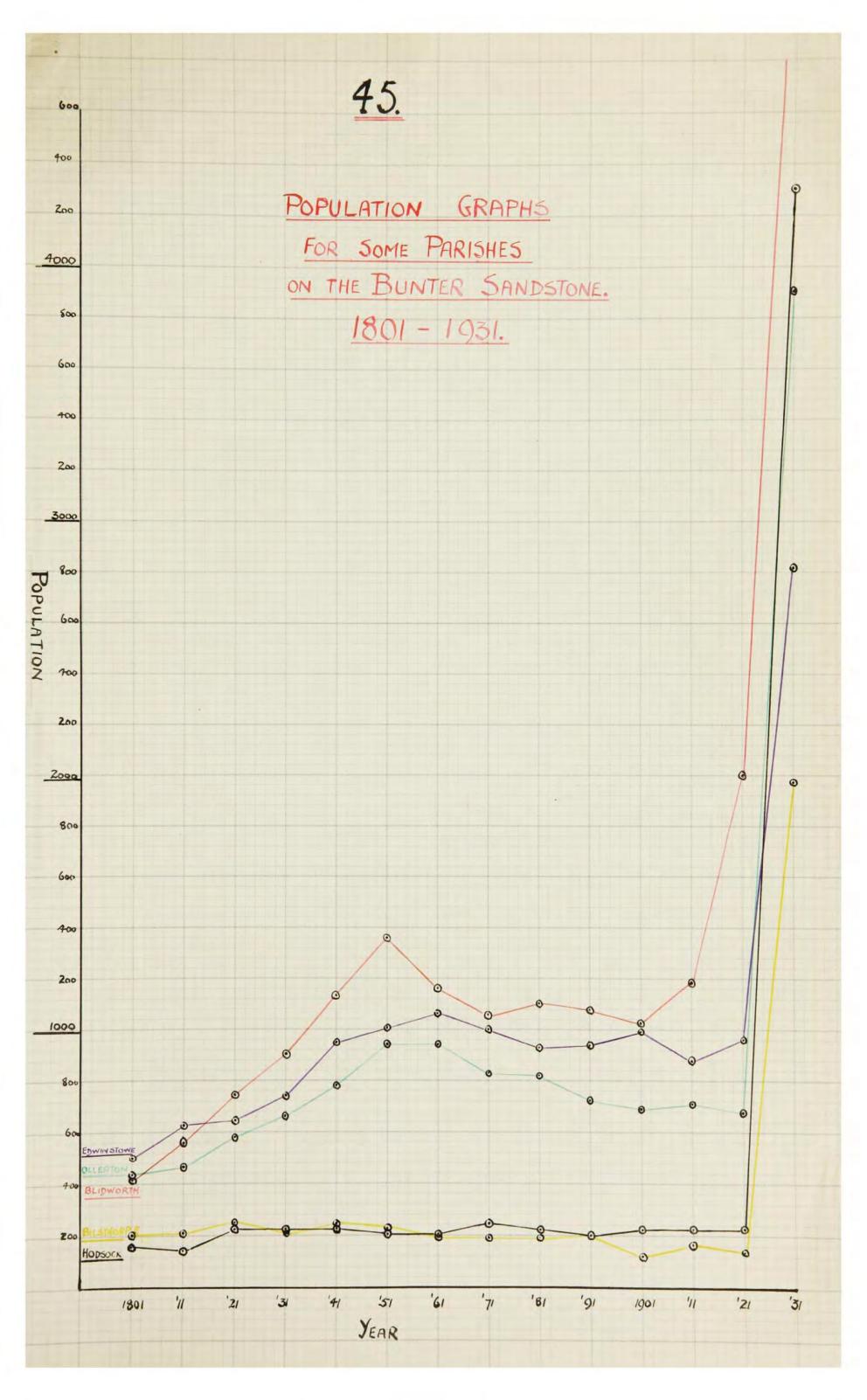




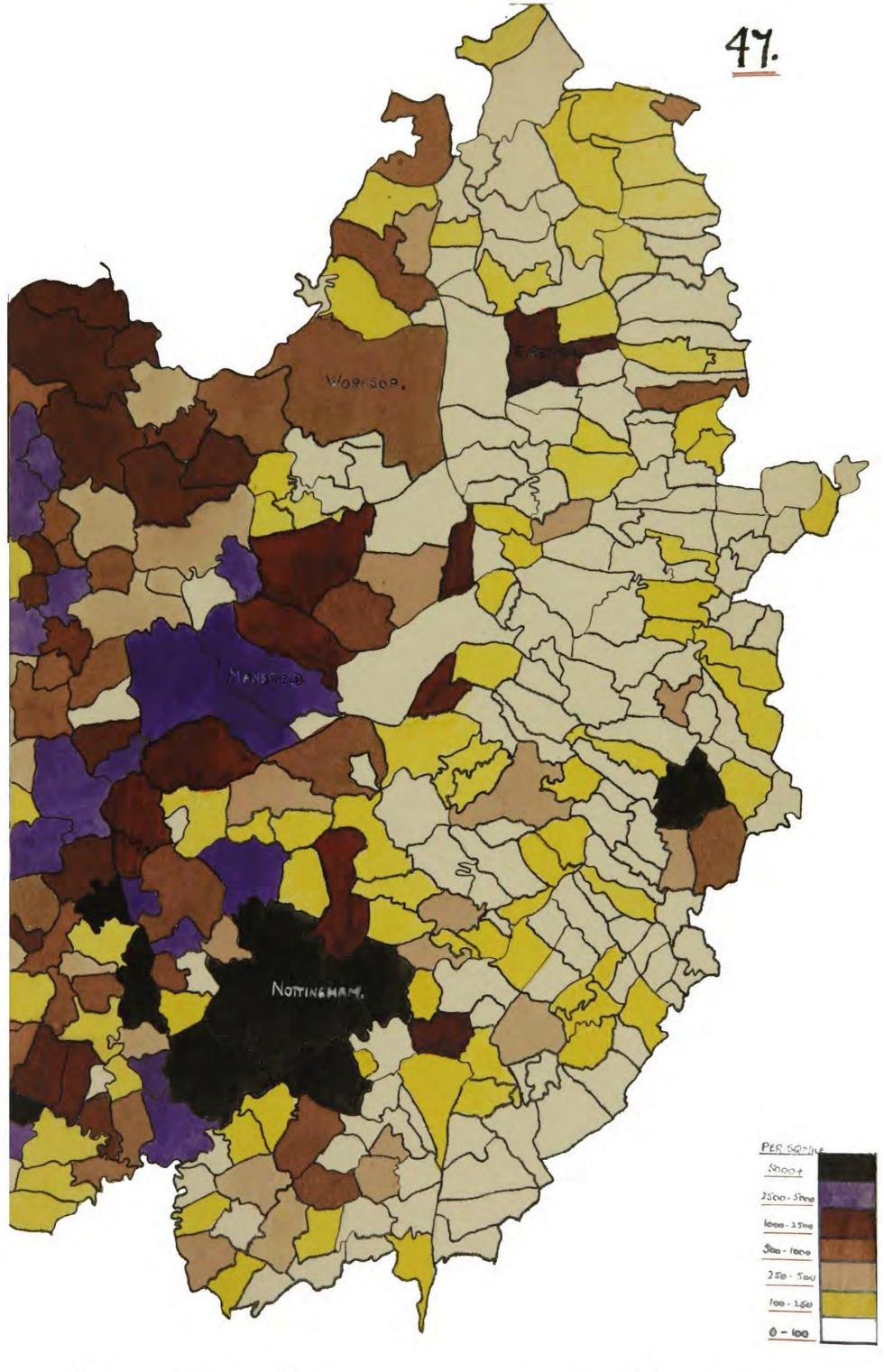




LESS THAN 50 H







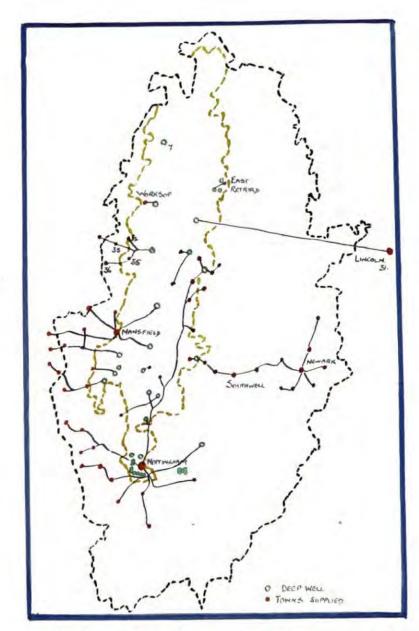
POPULATION. NOTTINGHAMSHIRE AND EAST DERBYSHIRE.

Towns AND VILLAGES

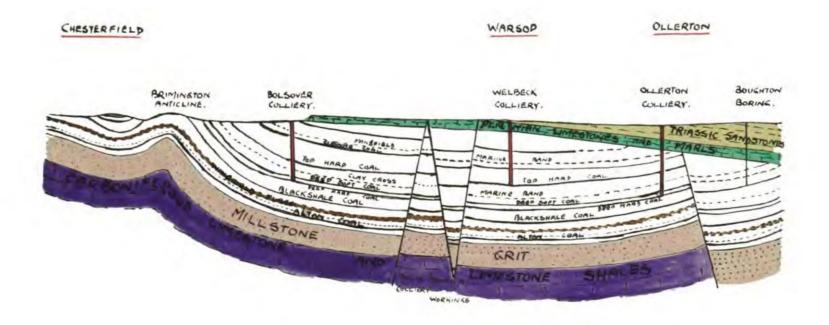
SUPPLIED FROM BUNTER.

```
1 BAWTRY
                   2 EVERTON
3 STROOBY
                   4 MATTERSEY
5 HARWARTH
                    6 STYRRUP
Y BLYTH
O SUTTON - LOUND
                    8 RANSKILL
                   10 BARNEY MOOR
                  12 Hopsock
and Retford
11 OLI COMPES
13 CARLTON IN LIN
                   IL WEAHAM
15 ORDOALL
17 WORKDOP
19 RANBY
21 NEWARK
                      BABWORTH
                   20 OSBERTON
22 WELLOW
                   24 SOLITHWELL THE BURTON JOICE 25 NETHERFIELD
23 BILSTHORPE
25 BULCUTE
24 CHEDLING
19 (ARLTON
                    34 ELKESLEY
31 LINCOLN
                    32 WELBECK
33 HOLBECK
                    34 HOLBECK WOOMINGE
35 BELPH
                    35 NORTON
36 LANGWITH
                    37 BOUGHTON
38 THORESBY
                    39 PERLETHORPE
                     41 OLLERTON
42 RUFFORD
                    A WALESBY
4 EDWINSTONE
                    45 WARSOP
46 MANSFIELD
                    47 CLIPSTONE
48 RAINWORTH
                    49 PLEMELEY
                    57 SUFTON IN ASHALLY
 50 TIBSHELF
52 SKEKBY 53 MICKMANL
54 KIRKBY: M ASHRILLY 55: CHOT KIRKBY
56 BLIDWORTH 57 HAYWOOD CHKS
 SE FOUNTAIN DALE SY FARMSFIELD
60 ONTON
                     61 CALVERTON
62 ANNESLEY
                    43 DELETON
 64 LINBY 65 NEWSTERD 66 HUCKMALL TORCHE TO BRANKOTE
                     65 NEWSTERD
 68 CHILWELL
                    69 NOTTINGHAM
 YO BRINSLEY
YO AWSWERTH
                     YI BAST WOOD
                     43 COSSAL
                      75 WATMALL
  74 KIMBERLEY
  76 NUTHALL
                      TY STRELLEY
                      70 PAPPLEWICK
  Y' BEESTON
  SO BESTWOOD
                      81 STOKE BARDOLPH
                      83 W BRIDGEFORD
  12 WILFERD
  SH HOLME REMERONT SS RADCUFFE ON TRENT
  16 HAWTON
                     57 BALDERTON
  15
                     89
  90
                     91
  92
                     95
  94
                     147
```

4



THE BUNTER OUTCROP AS A SOURCE OF WATER

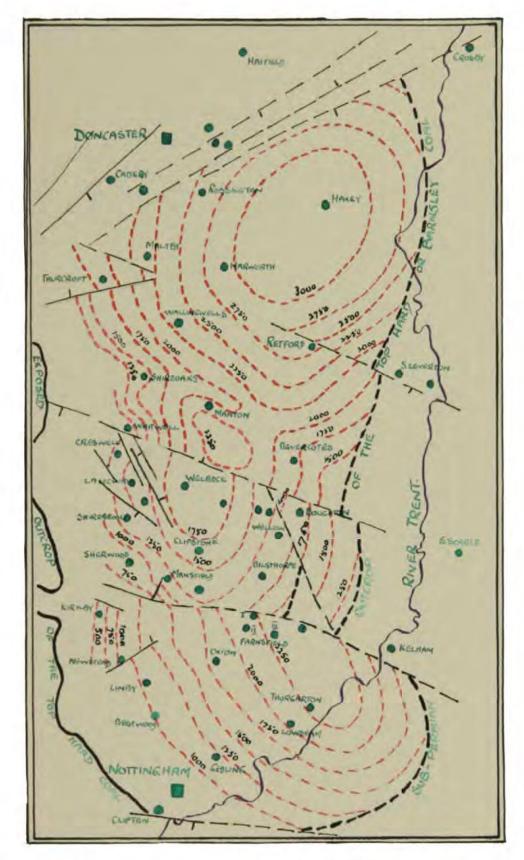


SECTION FROM CHESTERFIELD TO BOUGHTON SHOWING STRUCTURE OF THE COALFIELD.

FROM WRAY

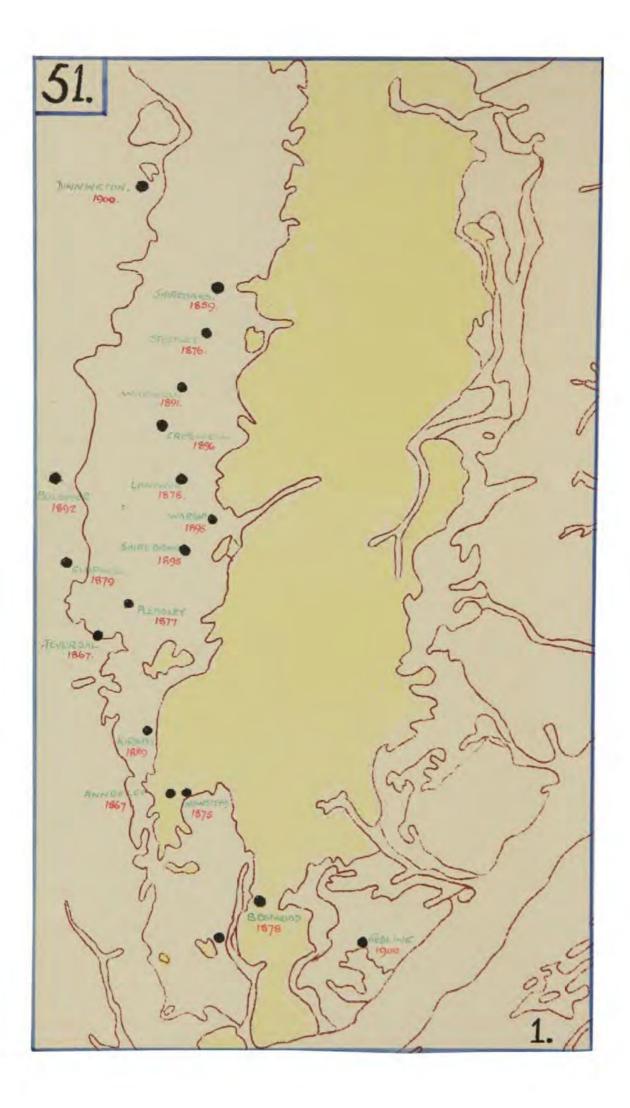
"PENNINES AND ADJACENT

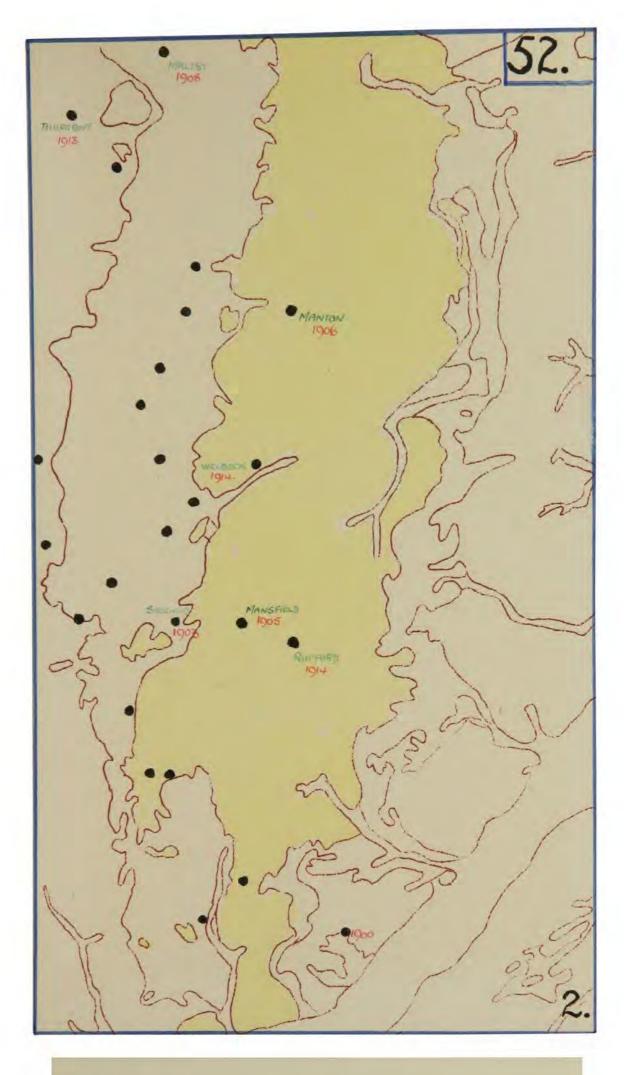
AREAS"



CONJECTURAL CONTOUR LINES IN
TOP HARD OR BARNSLEY COAL
(DEPTHS IN FT. BELOW SEA LEVEL)

FROM "CONCEALED COALFIELD OF YORKS AND NOTTS" - WILSON





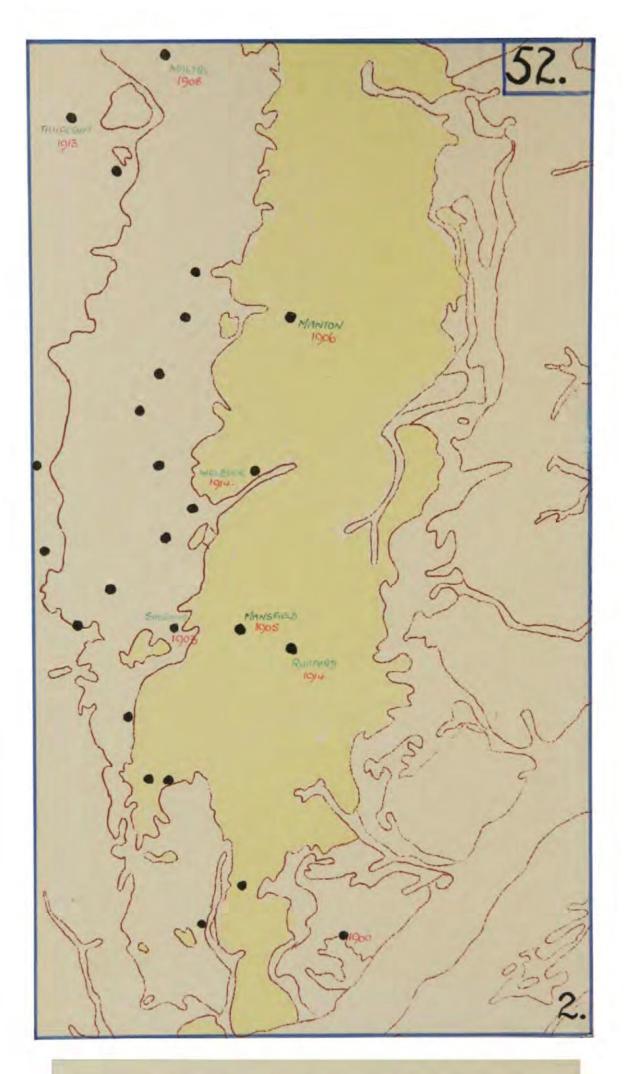
DEVELOPMENT OF THE CONCEALED

COALFIELD OF NOTTINGHAMSHIRE.

1. COLLIERIES OPENED 1859-1900.

2. " 1900-1920.

3 " SINCE 1920.



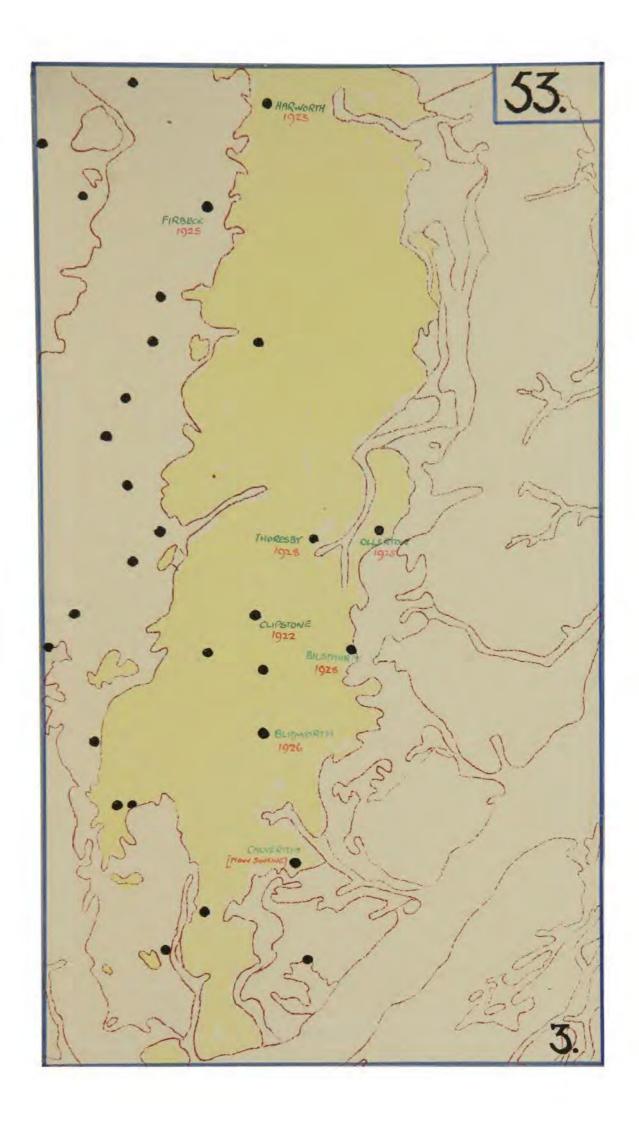
DEVELOPMENT OF THE CONCEALED

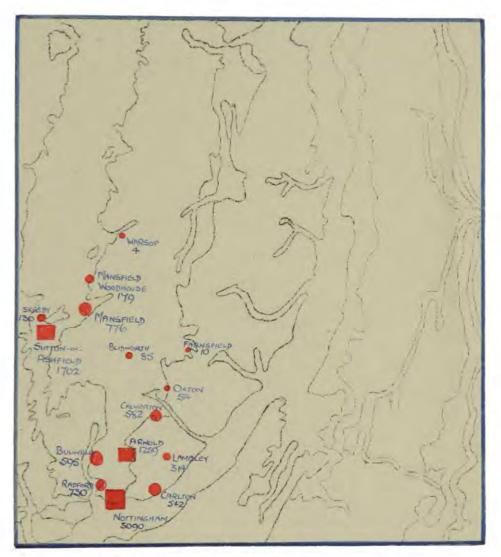
COALFIELD OF NOTTINGHAMSHIRE.

1. COLLIERIES OPENED 1859-1900.

2. " 1900-1920.

3 " " SINCE 1920.





FRAMEWORK CENTRES ON THE BUNTER OUTCROP. 1845.

FIGURES SHOW NO OF FRANCES

