(ix) THE GREEN BELT

The London green belt is vital and must stay. But it seems likely that a limited amount of housing land can be found in the green belt without any serious loss. The proposals for extending the metropolitan green belt should be critically re-examined before they are confirmed, but substantial parts of them should be approved.

General conclusion

- 2. So far as the basic problem is concerned, there is little choice; large population increases in the South East are inevitable. Twenty-year forecasts can go badly wrong; but present evidence suggests that if the estimates made in this Study prove to be inaccurate, they will be shown to be under-estimates.
- 3. Where the choice does lie is in the type of plan to deal with the population increase. The Study, while recognising the strength of the economic forces which are leading to more and more growth in the London area, takes as its main principle the decentralisation of population and employment. The aim is to break the vicious circle of growth generating more growth in the most crowded and congested part of the South East—not only the London conurbation itself, but the ring around it, which has been experiencing the fastest population growth of any part of the country.
- 4. At this stage, it is difficult to make any reliable forecast of the distribution of the population growth over the South East; much depends on the number of the planned expansions which can be got under way, and the speed at which they can be developed. But the policy suggested in the Study would produce the kind of pattern shown in the following table, which makes certain assumptions for illustrative purposes.

Distribution of population growth in the South East 1951-61 and 1961-81

TABLE VII

	Population gro (act		Population growth 1961-81 (estimated)				
	Number (millions)	Distribution (per cent)	Number (millions)	Distribution (per cent)			
Metropolitan region	0.8	63	1.9	54			
London conurbation	-0.2	15	nil	nil			
Outer metropolitan region	1.0	78	1.9	54			
Rest of South East England	0.5	37	1.6	46			
Total (South East England)	1.3	100	3.5	100			

100

This table shows that, in spite of the greater total growth to be accommodated in the South East, a much smaller share of this total would, under the proposals in this Study, be concentrated in the belt around London. The amount of increase there, over the 20-year period of the Study, would be at a slightly lower rate than over the last ten; and the proportion of the total growth which would go to the outer metropolitan region would fall sharply.

- 5. This would make a start on the road towards a more even distribution of population growth in the South East; and, as the new big cities built up, the change in the pattern of population growth would be reinforced by a gradual shift in the economic balance within the South East.
- 6. The starting point of the Study was an estimate of the amount of population growth that is likely to take place in the South East; this made allowance for improvements in other regions. Given this estimate, there is an urgent need to make plans now for the accommodation of this large and inescapable population increase in the best way and to make sure that enough land is brought forward to provide for it.

The need for review

7. Nobody who has examined the history of planning in London and the South East since the days before the war can fail to be conscious of the possibility of error and of the possibility of social and economic changes that may overturn basic assumptions. There is no way of avoiding mistakes when planning for a long period ahead; but regular and frequent reviews can give early warning if events are falsifying predictions. These should be provided for.

Part Three

APPENDICES

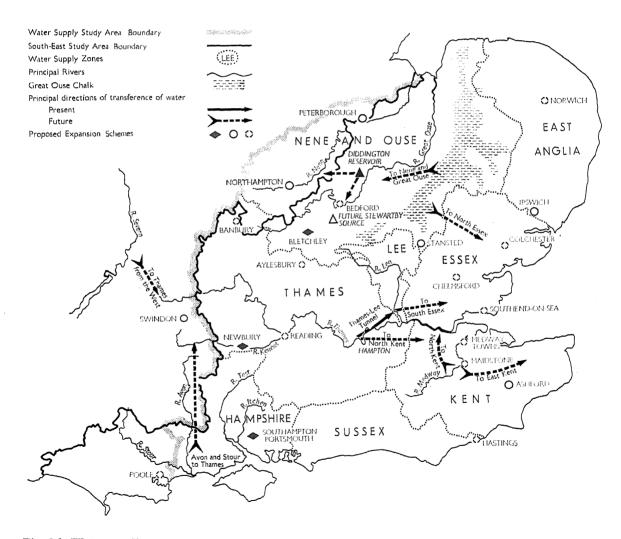


Fig. 26. Water supplies

The arrows showing direction of transference of water to augment supplies in the future are diagrammatic and merely indicate possible sources of supply

Water supplies in South East England

A CRITICAL factor for the carrying through of the big new schemes of expansion, and, indeed, in the accommodation of the population increase in the South East generally, is the provision of adequate supplies of water. An examination of the water supply situation in South East England is being made in parallel with this planning study.

Summary of the water situation

- 2. The broad conclusion on water is that, given the necessary expenditure on schemes to develop sources of supply, and given statutory powers to undertake the works where these are required, there is no overriding obstacle to the provision of enough water to meet the needs of the population of the Study area, which will have grown to well over 21 million by 1981.
- 3. But it takes time to plan and execute a major water scheme, and in some areas where new towns and town expansions are proposed, and where heavy natural increase of the population
- is likely, the present sources of supply are strained. In some water catchment areas too, different big expansions are competing for the same water supplies. This will affect the timing of some schemes, and may mean that, at any rate over a given period, the pace of growth at one town may be influenced by the rate of development at another. It might indeed prove desirable to defer the start of some until water supplies have been improved.
- 4. These questions are, of course, interdependent on other factors which may govern

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the target for expansion and the speed of development at any given place, and the availability of water will be one of the matters for detailed investigation at each place. But certain problem areas stand out.

- 5. Natural increase alone will produce problems in **South Essex** and would, in time, require expensive schemes to bring more water into the area. The further increases considered in the Study, both of commuters and in planned expansion schemes (e.g. Chelmsford, Colchester and Southend), will make the provision of more water an urgent matter. This might be done through a tunnel passing water from the Thames catchment to Essex. There is already one such tunnel—it cost £5 million to build—but it may not have sufficient capacity to meet all the demands expected in Essex by 1981.
- 6. The situation in **Kent** is similar. Here too there will be a large natural increase, and expansion at Ashford and Maidstone will make the problem more urgent. The solution might be the exploitation of the resources of the River Medway Basin, or perhaps ultimately another tunnel from the Thames.
- 7. The other area of difficulty is the Great Ouse and Nene water areas. Four expansion schemes

- which might be among the largest (Bletchley, Northampton, Peterborough and Stansted) may have to look to these areas for their supplies. There may be enough water available locally, but expensive schemes might be required to obtain this. Expansion at Stansted, unless it were designed to drain northwards to the Great Ouse basin, might have unfortunate effects on existing water supplies from the River Lee.
- 8. The **Thames Basin** is likely to be the key to water supply in the region. On present population estimates it should be able to meet all demands made on it up to 1981. Thereafter, it may be that the flow in the Thames will have to be augmented by bringing water from other catchments to the west. This would be a direct result of the total population increase in the region, and not of the particular distribution of that population suggested in the Study.
- 9. The size and urgency of the problems in the South East are such that a preliminary investigation of the possibilities of various major regional water schemes should be set on foot at once. This could be one of the first problems to which the Water Resources Board (to be established under the Water Resources Act 1963) will wish to turn its attention.

The water supply study

- 10. The area included in the water supply study is not quite the same as that of the planning study, for physical and hydrological reasons. Northamptonshire and the Soke of Peterborough are included, and Dorset is omitted. Otherwise the boundaries are generally co-terminous.
- 11. The area is bounded on the landward side by the Northampton Uplands, the Cotswolds, the Berkshire Downs, the Hampshire Downs, Salisbury Plain and Cranborne Chase, and on the seaward side by the North Sea, the Strait of Dover and the English Channel. Apart from the
- low coastal belts in the Fens and in Hampshire, the relatively high ridge boundary is interrupted by the Thames Valley in the Vale of White Horse and in the Kennet Valley.
- 12. The principal river systems are those of the Nene, the Great Ouse and the Thames; and there are some relatively small river systems discharging to the sea around the coastline.
- 13. The sedimentary geological formations in the area range from the Lower Lias of the Jurassic to the Norwich Crag of the Pleistocene measures. The principal measures of importance

to underground water supplies are the Chalk and Lower Greensand and the Oolitic Limestones. Many useful supplies are also obtained from other pervious formations, although in much smaller quantities.

14. At the end of 1963 there were 130 water undertakings in the area, of which 81 were local

authorities, 19 water boards and 30 water companies. This number will continue to be reduced by amalgamations and regroupings. There are 10 river or catchment boards in the area who will, in due course, be superseded by nine river authorities to be established under the Water Resources Act 1963.

Present conditions

15. The basis for ascertaining present conditions was the information contained in returns for 1961 made to the Ministry of Housing and Local Government by statutory water undertakings.

16. In that year, the population in the area which was directly supplied was about 18 million. This population was supplied with 909 million gallons per day, of which 615 were unmetered (domestic), and 294 metered (trade, etc.). This total figure is equivalent to 50·3 gallons per head per day. 17. The area is supplied with water from surface sources and from underground sources in the Chalk, Lower Greensand, the Oolites and lesser supplies from other pervious strata. In 1961, of the total of 909 million gallons per day supplied, 433 were from underground sources and 470

from surface supplies, the balance being accounted for by bulk supplies. Of 470 million gallons per day obtained from surface supplies, 306 million gallons per day were obtained by the Metropolitan Water Board from their intakes in the rivers Thames and Lee. The next largest surface water supply was 34 million gallons daily from the River Stour for the South Essex Waterworks Company.

18. Surface supplies generally are either by direct abstraction of raw water from the river or by pumped storage. Upland impounded supplies are rare in the South East, the only example of note being the impounding reservoirs in the Nene catchment of the Mid-Northamptonshire Water Board.

Future conditions

19. It is estimated in the planning study that the population of South East England will increase by $3\frac{1}{2}$ million by 1981, of which $1\frac{1}{4}$ million would be accommodated in new and expanded towns. 20. In the water supply study consideration has to be given to the water demands for the whole increase in population of $3\frac{1}{2}$ million, in addition to the increasing demands of the present population. The provision made for planned expan-

sions of $1\frac{1}{4}$ million is only a part of the whole problem.

21. The demand for water per head of population is showing a tendency to increase considerably because of the introduction of domestic appliances such as washing machines, the provision of waterborne sanitation and fixed baths in more private houses, the general raising of standards of personal hygiene, the more general

use of inexpensive hoses and sprayers for garden watering and the development of spray irrigation for agricultural purposes. A statistical examination of trends in the past, as far as comprehensive records are available, shows that, if present trends continue, the demand per head per day in England and Wales as a whole, including both domestic and trade supplies, may by 1981 have increased from the present 50.4 gallons per head per day to at least 65 gallons per head per day. This figure does not include industrial and other

supplies drawn from privately-owned sources.

22. On the basis of these figures and the expected population increase, the 1961 consumption of 909 million gallons daily will rise by 1981 to 1,372 million gallons daily; as the reliable yields of existing headworks and sources are little more than adequate to meet present demands. further developments will be necessary to produce the additional 463 million gallons daily.

Availability of water

- 23. The area has been divided into eight units, which correspond approximately to the hydrometric areas used by the Surface Water Survey Unit of the Ministry of Housing and Local Government. In some cases those areas have been grouped together.
- 24. It must be emphasised that the schemes outlined below are merely suggestions put forward as a possible means of meeting the demand, and their final adoption must depend upon the results of considerable exploratory work, the consideration of other interests (such as agricultural use of land, riparian interests and the interests of other water users), and the obtaining of the necessary powers to enable them to be carried out. The Minister of Housing and Local Government is in no way committed to any of the schemes.
- 25. Until it is known with more certainty whether particular planned expansion schemes will go forward, it is not possible to go into the water schemes in any detail, and the pattern and timing of the rate of building development will influence their phasing. Up to ten years may elapse between the first inception of a scheme involving major works and the time when it first produces water in useful quantities.
- 26. EAST ANGLIA. In this area there is a surplus of underground water in the Chalk and

- some supplies can be made available by utilising surface water from reservoirs of the pumped storage type. The balance of surface and ground water should be integrated to make the best use of each.
- 27. The construction of a barrage at Great Yarmouth to exclude sea water from the Rivers Bure and Yare could produce a considerable quantity of water but it would interfere with other interests and, at this stage, it can be considered as no more than a possibility.
- 28. NENE AND GREAT OUSE. It is doubtful if there would be sufficient ground water reserves to meet any large additional demands in the Nene catchment area, but surface water might be exploited in limited quantities by the use of pumped storage such as may be available in the disused clay pits in the Peterborough area.
- 29. The surface water resources of the Great Ouse Basin are already being exploited and works are now in progress for the construction of a pumped storage reservoir at Diddington and trunk mains for distribution. This first phase should be producing water by 1967 and later phases are timed to be completed before 1990. A later phase of the Great Ouse scheme, which cannot, however, be started for some years to come, and for which powers have not yet been

obtained, would include an intake at Kempston, near Bedford, and would use pumped storage in disused clay pits near Bedford.

- 30. Surface water resources might be augmented by using some smaller and less economical sites for reservoirs, but these proposals would probably fully develop the available surface water resources of the Great Ouse Valley. With the accelerated building development proposed in the Great Ouse Valley and in the areas served by the Great Ouse scheme which are dependent upon it for water supplies, it is probable that the development of the Great Ouse Water Supply scheme to its ultimate capacity will have to be accelerated considerably.
- 31. There are large reserves of water in the Chalk on the eastern side of the Great Ouse Basin. This Chalk is in a belt extending from an area east of King's Lynn to the neighbourhood of Cambridge. The resources of this Chalk belt have not been fully explored as a whole and the ability of the Chalk to yield up its stored water has not been fully proved. It is, however, regarded as a potential source of future supplies, some of which may well be available for export to other areas such as the Lee Basin and north Essex.
- 32. ESSEX. In the planning study several large and important developments are suggested in Essex, an area in which the unexploited resources of both ground and surface water are extremely limited. It will be necessary to import water from other areas to meet the large demands for major expansions and development in Essex.
- 33. For supplies in north Essex, additional water could be drawn from Suffolk and East Anglia, and from the Chalk in the Great Ouse Basin. The Metropolitan Water Board have completed the Thames—Lee Tunnel main which is to convey untreated Thames water from Hampton to the Lee Valley in east London and an arrangement already exists for supplying a considerable quantity of this water into south Essex. To increase this supply the discharge capacity of the Thames—Lee Tunnel could be augmented and ultimately it may be necessary to duplicate the tunnel. There is a potential site for a reservoir for

storage of Thames water on the Cobbins Brook in the Lee Basin, which could be used for supplies to south Essex.

- 34. THE LEE BASIN. This is a critical area, as it contains the new towns of Harlow and Stevenage and places in Hertfordshire which would be affected by the spread of commuter population from London.
- 35. No major additional abstraction of ground water can be relied upon in the future and the surface water resources are already more than fully exploited. Therefore, to meet the large development expected in this area, water will have to be imported from outside the basin. This could be done by importation of ground and surface water from the Great Ouse Basin and by water from the Thames catchment.
- 36. Kent. There are certain ground water reserves in east Kent and with proper regulation of the flows in the rivers, particularly the Medway, the local resources may be able to meet the expected demands for some years to come. However, if the developments in mid and south Kent envisaged in the planning study materialise, it is unlikely that local water resources will prove to be adequate. In the long term, the supplies in north Kent could be augmented by Thames water, possibly conveyed into the area by a tunnel like the Thames—Lee Tunnel.
- 37. THAMES. The Thames Basin is the most important unit in the system of water supplies for South East England. In addition to the many important supplies given within the basin, both of ground and surface water, most of which is returned to the River Thames in the form of sewage effluents, the river forms the lifeline of surface water supplies to the London area and, in the future, may well serve to augment local supplies in south Essex and north Kent.
- 38. In addition to natural increases in population in the basin, major planned developments may take place at Aylesbury, Banbury, Reading and Swindon, as well as a big new town in the Newbury area.

- 39. The water resources of the Thames Basin should be sufficient to support supplies to the future population within the upper basin, most of the water so used being returned to the river for re-use.
- 40. Water flowing in the Thames channel above Teddington Lock is abstracted during the wetter periods of the year and stored for use in the drier periods and by this method supplies are maintained throughout the year to the population needing them. This method is being extended by the Metropolitan Water Board by the construction of more storage reservoirs in the Thames Valley, and they have had under consideration the construction of more reservoirs in the Thames Basin. The possibility has also been considered of utilising the underground storage available in the Chalk and Oolites under the Thames Basin and augmenting the flow in the Thames channel in dry periods by pumping into it water from underground. By such means as these, the water available in the Thames catchment area could be utilised to the full.
- 41. There are further possibilities of augmenting the flow in the Thames which may well merit consideration, either as additional or as alternative measures. One is that water might be pumped northwards from the basins of the Rivers Avon and Stour in Hampshire to discharge into the Kennet. Another suggestion is that water might be pumped into the upper reaches of the Thames from further west.
- 42. It is, therefore, considered that the Thames, possibly augmented by importation of water from neighbouring catchment areas, should be capable of meeting the demands for the Thames Basin, London and the areas of south Essex and north Kent for many years to come.
- 43. Development of the potentialities of the Thames would entail major engineering work such as the construction of large storage reservoirs, the exploration and construction of numerous boreholes for the abstraction of ground water to augment the river flows, the possible duplication of the Thames—Lee tunnel

- for conveying Thames water into south Essex and a similar tunnel for conveying water into north Kent.
- 44. Sussex. Where rivers are fed from chalk springs, the ground and surface waters are interdependent, and for optimum exploitation must be developed as one. There are reserves of ground water in the county especially in the chalk of the South Downs and surface water in the rivers is capable of development, if adequate storage can be provided.
- 45. There need be no great anxiety about water supplies in Sussex, if the exploitation of ground and surface resources is properly co-ordinated.
- 46. Hampshire. The principal planned expansion suggested in Hampshire is in the Southampton-Portsmouth area. The main sources of water supplies are the Chalk for ground water and direct abstractions from rivers. Southampton draws supplies from both, but Portsmouth relies mainly upon the Chalk. The rivers are mainly chalk-fed so that the ground and surface water cannot be treated independently; large scale exploitation of the ground water may affect the flow in the rivers. The effect of this on fishing, particularly in the Itchen and the Test, will need to be considered.
- 47. It is probable that large scale exploitation of the water reserves would be from the rivers. This would entail providing adequate storage to regulate the flow, when suitable sites can be found. In general, storage sites as far downstream as possible and near to the tidal waters would probably be least open to objection from the point of view of riparian interests.
- 48. Poole, in Dorset, is included in the towns proposed for development. This area depends at present upon ground water for its supplies and there is a limited reserve of water which could be exploited. If this proves inadequate, consideration could be given to the development of river supplies in the neighbourhood, provided that suitable storage sites could be found.

Capital investment

- 49. At the present stage of the development proposals for South East England it is very difficult to estimate what would be the total capital cost of water supply. This is largely due to unavoidably incomplete knowledge of the final location of the future centres of population and the phasing of the major schemes which will be necessary.
- 50. Approximate broad and comprehensive figures are suggested, based upon major works which have been or are being carried out in the post-war period, and adjusted to give some indication of present-day costs. These include

headworks and treatment works for major schemes and what is thought to be a reasonable allowance for trunk mains for conveying water from sources to the points from which it would be distributed. No allowance is made in these figures for distribution systems within the towns. 51. On this basis, the cost of major water supply schemes for an additional population of $3\frac{1}{2}$ million would be of the order of £65 million. This figure can only be taken as a broad indication of the order of the capital cost involved. No indication of the probable phasing of expenditure can be attempted at present.

Conclusion

- 52. To provide for the expected increase in population in South East England over the next 20 years it will be necessary to develop a number of major new water supply schemes. This will call for careful co-ordination on a much larger scale than has been necessary in the past, not only to provide for the delivery of additional water into areas with inadequate local resources, but to ensure that available resources are exploited to the best advantage and that the phasing of the programme of exploitation is geared to the pattern of increasing demand for water.
- 53. In the next decade, water undertakings will be faced with increasing demands for water both from the increase in demand per capita and from increasing population and industry. They will undoubtedly have to develop fully their existing sources of supply and seek to exploit many local potential sources. At the same time and in parallel with this, the authorities responsible for water conservation and the allocation
- of available water resources will need to consider the major schemes, such as those involving the transference of water between the various river basins. In addition to this, exploratory and preparatory work should be carried out as soon as possible to prove the practicability of certain of the major schemes which will become necessary in the not very distant future.
- 54. As a general guide, it is suggested that the following steps might be taken:
- (i) A more detailed investigation of the suitability of sites for storage of surface water in East Anglia than was possible by the Surface Water Survey.
- (ii) Consideration of the possibility of accelerating the present programme of the Great Ouse Water Authority and the possibility of developing the Kempston Intake and the Stewartby storage scheme at an earlier date than was expected.

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- (iii) The field exploration of the potentialities of the Chalk in the Great Ouse Basin, by the appropriate authority.
- (iv) The immediate acceleration of all projects for full development of all the available resources in Essex. This should include the possibility of augmenting the present arrangement for the supply of Thames water into south Essex and the possible need for additional storage for this purpose.
- (v) The immediate acceleration of a more detailed field exploration of the available sites for regulating and pumped storage reservoirs in Kent, especially on the Medway, any necessary further exploration of the Chalk reserves, and the elimination of saline contamination in the mining areas.
- (vi) Proposals for seeking additional storage sites

- in the Thames Valley and for exploring the possibilities of exploiting the underground storage in the Thames Basin should be encouraged.
- (vii) The possibilities of further connections between the Thames and Lee basins and of such a connection between the Thames catchment area and the area of the Kent river board should be considered.
- (viii) Transfers of water into the Thames catchment area from the west and south should be the subject of preliminary investigation.
- (ix) A start should be made on detailed exploratory work for exploiting the ground and surface water resources of Hampshire, in particular the field exploration of sites for regulating or pumped storage reservoir sites for surface water.

Tables

This Appendix brings together some of the detailed material on which the argument in the text is based. Most of the tables are related to the figures illustrating the text. They are divided into three main sections. The first section contains the definitions of the major divisions of England and Wales and the subdivisions of South East England used in the Study; the second deals with population; and the third with employment.

Definition of areas

- 2. For the purposes of the Study, England and Wales has been divided into five major areas; and South East England has been further subdivided. These tables give the composition, and the estimated civilian populations, of each of these divisions in 1961.
- 3. Table 1 gives the composition of the major divisions of England and Wales used in the Study (see Fig. 2). These divisions are, in general, made up of the ten standard regions defined
- by the Registrar General for the 1961 Census. The only exception is in the case of Dorset, the whole of which is included in the South East as defined in the Study. (For comparison with the regional boundaries used by other government departments, see footnotes 1 and 2.)
- 4. Table 2 shows the subdivisions of South East England used in the Study, and Tables 3, 4, 5 and 6 give the composition of them (see Fig. 3).
- 5. The main subdivisions of the South East are

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the metropolitan region, which is the area within about 40 miles of the centre of London, where the influence of London is most strongly felt; and, within the metropolitan region, the Greater London conurbation, as defined for the 1961 Census, which comprises the built-up area lying inside the metropolitan green belt.

6. Table 3 gives the composition of the conurba-

tion. The outer metropolitan region (i.e. that part of the metropolitan region that falls outside the conurbation) has been divided into two rings, the inner country ring and the outer country ring, and **Tables 4** and **5** show the composition of these. **Table 6** gives the composition of the remainder of the South East outside the metropolitan region.

Population statistics

- 7. POPULATION DISTRIBUTION AND CHANGES. The chief source of population statistics is the Census, which has been held every 10 years (with the exception of 1941) since 1801. The Registrar General's published estimates of home population, based on the Census, include, however, members of the British, Commonwealth, and foreign armed forces in the area, and it is more appropriate for the purposes of land use planning to use his specially prepared midvear estimates of civilian population.
- 8. Table 7 shows the distribution of population in 1951 and 1961 and the changes occurring between these dates, principally by natural change and migration. These changes are illustrated in Figs. 4, 5 and 6.
- 9. Table 8 shows the growth of the population of South East England since 1801, and how the area's percentage share of the total population of England and Wales has varied.
- 10. Table 9 deals with changes in population distribution within the metropolitan region. It shows how, in a cross-section of the region from Reading to Southend, the balance of population has shifted both within the conurbation and between the conurbation and the outer metropolitan region over the period 1901–61 (see Fig. 15).
- 11. THE BIRTH RATE. Table 10 gives the number of live births recorded in each year from 1946 to 1962 in England and Wales as a

whole and in the subdivisions of South East England. For each area, the post-war low is shown in heavy type. The table also gives the figures for each area on a ratio basis related to 1955, which was the low point for the birth rate trend in England and Wales as a whole. These changes in trend are illustrated in Fig. 12, and the birth rate trend for England and Wales as a whole over the period is shown in Fig. 7.

- 12. EXISTING PLANNED OVERSPILL SCHEMES. Tables 11 and 12 deal with the provision already made under the New Towns Act 1946 and the Town Development Act 1952 for the housing of overspill population from local authority areas in London which have been recognised as exporting areas for the purposes of Section 9 of the Housing Subsidies Act 1956. The major schemes are shown in Fig. 14.
- 13. One purpose of these two tables is to show the capacity remaining unused in existing schemes in 1961, as a basis for calculating the further provision needed (Chapter 10, paragraph 19). For this purpose, schemes which have been agreed since 1961 are relevant and capacity to be provided in them has been shown as existing in 1961, which is the base date for the relevant calculation.
- 14. Table 13 compares the age structure of the population of the London new towns in 1961 with that of England and Wales as a whole (see Fig. 24).

Employment statistics

15. Areas. The geographical divisions of England and Wales and of South East England used in the Study (Tables 1–6) are made up of local authority areas. Some boundaries of Ministry of Labour local office areas (which are the basic units for employment data) do not correspond with those of local authority areas, and the divisions in the tables relating to employment therefore differ slightly from the divisions used in the population tables.

16. Two of the major divisions, Midlands and Northern England, were affected by changes in Ministry of Labour regional boundaries made in 1962 when three regions (Midland, North Midlands, and East and West Ridings) were combined to form two new regions (Midlands, and Yorkshire and Lancashire). The figures used here are for the regions as constituted up to 1962. 17. For most of the tables the figures for South East and South West England have been adjusted so as to include in the South East the part of Dorset (i.e. the whole of the county except Poole) which falls in Ministry of Labour South Western Region, In Tables 16, 19, 20, 21 and 23, however, South East England does not include the whole of Dorset.

18. Scope of the statistics. The employment statistics are derived from the Ministry of Labour's annual (June) estimates of employees (employed and unemployed). For Great Britain as a whole these estimates account for 92 per cent of the total working population (i.e. people of working age who either work for pay or gain or who register themselves as available for such work). The balance is made up of employers and people working on their own account (6 per cent) and members of Her Majesty's Forces and Women's Services (2 per cent).

19. INDUSTRIAL CLASSIFICATION. In some tables the total number of employees is analysed

by groups to provide a picture of the structure of employment.

20. The Standard Industrial Classification, issued by the Central Statistical Office in 1958, groups industries in 24 Orders. The classification is based on industries and not on occupations, and administrative, technical, clerical and ancillary staff are included in the figures of employment for the industry concerned. Thus the head office of a firm operating in the United Kingdom is classified as far as possible according to the major activity of the firm.

21. The Industrial Orders are further subdivided into Minimum List Headings; the particular industries included under each heading are set out in the Standard Industrial Classification. In most of the tables dealing with employment structure the analysis is in terms of either Orders or Minimum List Headings, but for some general tables the Orders have been grouped, for the purpose of the Study, into three broad categories—primary, manufacturing, and service industries. The composition of these categories is shown in Table 16.

22. PERIODS COVERED. Detailed employment statistics cannot be produced on a comparable basis for the period taken for population statistics, 1951-61. A broad regional analysis of changes in the distribution of employees for the period 1952-62 has been specially prepared by the Ministry of Labour and is given in Table 14. In general, however, comparable employment statistics are not available for years earlier than 1955 because the figures before that date are not corrected for 'bulk exchanges' i.e. to allow for the fact that some large firms may exchange the national insurance cards of some of their employees in a region other than that in which they work. Regional analysis of employment on a comparable basis is, therefore, possible only for the period 1955-62.

- 23. Changes in classification were introduced when the Standard Industrial Classification was revised in 1958; for this reason, most of the tables analysing employment structure cover the period 1959–62 only. In Table 18 figures for the three broad categories have been compiled for an earlier period, 1955–58, on the basis of the 1948 edition of the Standard Industrial Classification. These figures, however, are not fully comparable with those given for 1959–62.
- 24. Number and distribution of employees, by major divisions of England and Wales, in 1952 and 1962, and the changes that took place between these dates. These figures for a 10-year period have been specially prepared by the Ministry of Labour; figures are not available for the subdivisions of South East England used in the Study.
- 25. Table 15 is a similar analysis for the period 1955–62. Comparable figures of total employees are available over this period, and figures are given for the subdivisions of South East England (see Fig. 8).
- 26. EMPLOYMENT STRUCTURE. Table 16 lists the 24 Industrial Orders in the three broad categories used in the Study and shows how the structure of employment in South East England in 1962 differed from the structure for England and Wales as a whole. The table also indicates the changes in the numbers in employment in each Industrial Order in Great Britain over the period 1952–62. These figures have been specially provided by the Ministry of Labour; no breakdown for the subdivisions of South East England is available in terms of Industrial Orders.
- 27. Table 17 is an analysis of employment structure in 1962 in terms of the three broad categories only, but with a breakdown for the subdivisions of South East England. The differences in structure are illustrated in Fig. 10. 28. Table 18 illustrates the differential changes that have taken place in the distribution of employment in the three broad categories in each of the divisions and subdivisions of the country.

- The analysis covers two three-year periods 1955–58 and 1959–62. No estimates of change are available for the year 1958–59 during which changes in classification were introduced.
- 29. Table 19 is based on an analysis of the changes in the numbers employed in each of the 24 Industrial Orders in Great Britain as a whole over the period 1952–62. It shows how employees in Orders with differing rates of employment growth or decline were distributed between the major divisions of England and Wales in 1962. Table 20 is based on a similar analysis, relating only to manufacturing industries, and in terms of Minimum List Headings, not Industrial Orders. For this more detailed analysis the standard of comparison has to be the relatively short period, 1959–62, and not the ten-year period used in Table 19 (see Fig. 9).
- 30. Table 21 sets out the industries (in terms of Minimum List Headings) which have had employment increases of over 3,000 in South East England in the period 1959–62. Table 22 contains a similar analysis for the London conurbation only.
- 31. FACTORY AND OFFICE BUILDING. **Table** 23 gives figures of industrial buildings completed in the years 1952-61 (inclusive), and the estimated employment provided, in each of the major divisions of England and Wales and of South East England (see Fig. 11).
- 32. These figures are based on information available to the Board of Trade as a result of applications for industrial development certificates. They relate to completed buildings known to the Board of Trade by 30th June 1963. The estimates of employment provided are those accepted when the applications were decided. They relate only to labour requirements which could be attributed to the proposed building or extension itself.
- 33. The table also relates the estimated employment provided in each area to its total insured population in 1952; no figures are available for the subdivisions of South East England, except for the London conurbation.
- 34. Table 24 illustrates the growth in office floor

space in central London (see Fig. 17). The estimates of office floor space have been provided by the London County Council; they relate to buildings for which the principal use is offices.

for the purposes of the Town and Country Planning (Use Classes) Order 1963 (S.I. 1963 No. 708). The table also includes the Council's estimates of further commitments.

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NOTE. Figures have been rounded to the nearest final digit and, in some tables, there may be a slight discrepancy between the sum of the constituent items and the total as shown.

(I) All areas South East England London and South Eastern Region Essex (part) Hertfordshire (part)	(2) 45,852 17,747 11,034 1,003 154 1,689	(1) Midlands continued Northamptonshire Nottinghamshire Peterborough, Soke of Rutland	(2) 398 902
South East England London and South Eastern Region	17,747 11,034 1,003 154	Northamptonshire Nottinghamshire Peterborough, Soke of	
London and South Eastern Region Essex (part) Hertfordshire (part)	11,034 1,003 154	Nottinghamshire Peterborough, Soke of	
London and South Eastern Region Essex (part) Hertfordshire (part)	11,034 1,003 154	Peterborough, Soke of	902
Essex (part)	1,003 154		74
Hertfordshire (part)	154	Rudano	23
			23
	1,689		
Kent	1	South West England	3,132
London	3,173	South Western Region (part)	3,132
Middlesex	2,222	Cornwall	330
Surrey	1,722	Devon	801
Sussex, East	662	Gloucestershire	998
Sussex, West	409	Somerset	595
Eastern Region	3,711	Wiltshire	408
Bedfordshire	380	,	1
Cambridgeshire	188	Nowthern England	13,969
Isle of Ely	89	Northern England	1
Essex (part)	1,276	Northern Region	3,239
Hertfordshire (part)	682	Cumberland	291
Huntingdonshire	77	Durham	1,519
Norfolk	553	Northumberland	816
Suffolk, East	340	Westmorland	67
Suffolk, West	127	Yorkshire, North Riding	546
Southern Region	2,783	East and West Ridings	4,166
Berkshire	502	Yorkshire, East Riding	523
Buckinghamshire	485	Yorkshire, West Riding	3,643
Dorset (part)	90	North Western Region	6,564
Hampshire	1,308	Cheshire	1,369
Oxfordshire	306	Derbyshire (part) (see Note 3) .	69
Isle of Wight	92	Lancashire	5,127
South Western Region (part)	219		
Dorset (part)	219	Wales	2,621
,		Wales	2.621
Midlands	8,384	Anglesey	50
	4.759	Breconshire	54
Midland Region			120
Herefordshire	128 293	Caernaryonshire	53
Shropshire		Cardiganshire	167
Staffordshire	1,737	Carmarthenshire	172
Warwickshire	2,028	Denbighshire	148
Worcestershire	573	Flintshire	
North Midland Region	3,625	Glamorgan	1,223
Derbyshire (part) (see Note 3).	812	Merionethshire	442
Leicestershire	682	Monmouthshire	442
Lincolnshire: Parts of Holland .	103	Montgomeryshire	92
Parts of Kesteven	132	Pembrokeshire	
Parts of Lindsey .	499	Radnorshire	18

^{1.} South East England as defined in the table corresponds with two Board of Trade regions (London and South Eastern, and Eastern), together with that part of Dorset, i.e. the whole Administrative County except Poole M.B., which is within Board of Trade South Western Region.

2. Apart from some areas where Ministry of Labour administrative boundaries do not coincide with those of local authority areas, South East England is the equivalent of two Ministry of Labour Regions (London and South Eastern, and Eastern and Southern), together with the local office areas in South Western Region which serve Dorset.

3. The area of Derbyshire falling within Northern England (North Western Region portion) comprises Buxton M.B., Glossop M.B., New Mills U.D., Whaley Bridge U.D. and Chapel en le Frith R.D.

Subdivisions of South East England

TABLE 2

Area	Area									
(1)			ray parentile parties	***************************************		pulphides Plants and under		(2)		
South East England				•				17,747		
Metropolitan region					,			12,402		
London conurbation (see Table 3)								8,132		
Outer metropolitan region								4,269		
Inner country ring (see Table 4)								2,317		
Outer country ring (see Table 5)							.	1,952		
Rest of South East England (see Table 6)							.	5,345		

London conurbation

TABLE 3

Constituent areas			1961 civilian population (thousands)	Constituent areas	1961 civilian population (thousands)	
(1)			(2)	(1)	(2)	
All areas			8,132.4	Kent (part)	503.5	
London			3,172.6	Beckenham M.B	76·6 89·6 68·2 87·1	
Middlesex	•	•	2,222.4	Crayford U.D	31·3 45·0	
Essex (part)			1,003.1	Orpington U.D	79.8	
East Ham C.B	•	•	105.4	Penge U.D	25.8	
West Ham C.B.	•	•	156.6	Chamber (nont)	1,077.0	
Barking M.B			72.2	Surrey (part)	1	
Chigwell U.D			61.5	Croydon C.B.	252.3	
Chingford M.B			45.9	Banstead U.D	41.0	
Dagenham M.B			109.0	Barnes M.B.	39.0	
Ilford M.B			177.6	Beddington and Wallington M.B.	32.6	
Leyton M.B			93.3	Carshalton U.D	56.5	
Waltham Holy Cross U.D.			11.7	Coulsdon and Purley U.D	73.8	
Walthamstow M.B.			108⋅8	Epsom and Ewell M.B	69.9	
Wanstead and Woodford M.B.			61.2	Esher U.D.	60.5	
				Kingston-upon-Thames M.B	36.0	
Hertfordshire (part)			153.8	Malden and Coombe M.B	46·3 67·6	
	•	•	1	Merton and Morden U.D	63.7	
Barnet U.D	•	•	27.3	Mitcham M.B	40.7	
Bushey U.D	•	•	21·4 35·5	Richmond M.B	62.5	
Cheshunt U.D	•	•		Surbiton M.B	77.9	
East Barnet U.D Elstree R.D	:	:	40·6 29·1	Wimbledon M.B	57·0	

Inner country ring

TABLE 4

Constituent areas		1961 civilian population (thousands)	Constituent areas	1961 civilian population (thousands)
(1)		(2)	(1)	(2)
All areas		2,317·2	Hertfordshire continued	0.7.0
Berkshire (part)		86.0	Welwyn Garden City U.D	35·3 40·0
New Windsor M.B.	•	26.6	Hemel Hempstead R.D.	13.2
Easthamstead R.D.	•	43.8	Hertford R.D.	10.1
Windsor R.D.	•	15.6		1
Windsor R.D	•	12.6	St. Albans R.D	38.3
The all-to-all-accept to-a (a.e. (b)			Ware R.D	12.3
Buckinghamshire (part)	•	234.2	Watford R.D	58.2
Beaconsfield U.D	•	9.8	Welwyn R.D	7∙0
Chesham U.D	•	16.5		
Eton U.D		5.4	Kent (part)	238.3
Slough M.B		80.7	Dartford M.B	45.5
Amersham R.D		55.4	Gravesend M.B	50.7
Eton R.D		66.3	Northfleet U.D	22.4
			Sevenoaks U.D	17.5
Essex (part)		614.2	Swanscombe U.D	8.9
Basildon U.D		89.7	Dartford R.D	53.3
Brentwood U.D		49.6	Sevenoaks R.D	40.0
Canvey Island U.D		15.7		
Epping U.D		9.8	Surrey (part)	553.7
Harlow U.D		54.3	Caterham and Warlingham U.D	34.0
Hornchurch U.D.	-	130.7	Chertsey U.D	41.0
Romford M.B.		114-7	Dorking U.D	22.4
Thurrock U.D.		113.4	Egham U.D	30.8
Epping and Ongar R.D	•	36.3	Frimley and Camberley U.D	27.4
-pp.ms and onear xa.s	•	505	Guildford M.B.	53.5
Hertfordshire (part)		536.9	Leatherhead U.D.	36.2
Chorleywood U.D.	•	7.0	Reigate M.B.	54.3
Harpenden U.D.	•	18.4	Walton and Weybridge U.D.	45.4
Hemel Hempstead M.B.	•	55.7		67.7
Hertford M.B.	:	16.0	Woking U.D.,	16.2
Hoddesdon U.D.	•	18.0		31.5
	•	,	Dorking and Horley R.D	40.0
Rickmansworth U.D	•	28.8	Godstone R.D	
St. Albans M.B.	•	50.1	Guildford R.D	53⋅5
Stevenage U.D	•	43.6		
Ware U.D	•	10.0	Sussex, West (part)	53.9
Watford M.B		75.0	Crawley U.D	53.9

Outer country ring

Constituent areas		1961 civilian population (thousands)	Constituent areas	1961 civiliar population (thousands)
(1)		(2)	(1)	(2)
All areas	_	1,952.0	Hertfordshire continued	
		,,,	Bishop's Stortford U.D	19.0
		-0	Hitchin U.D	23.8
Bedfordshire (part)		206.4	Letchworth U.D	25.8
Dunstable M.B		25.7	Royston U.D	6.1
Leighton Buzzard U.D		11.7	Sawbridgeworth U.D	4.7
Luton M.B		132.0	Tring U.D	6.0
Luton R,D,		37.0	Berkhamsted R.D	6.3
			Braughing R.D	10.1
Berkshire (part)	.	261.3	Hitchin R.D	23.0
Reading C.B		120.4	· ·	
Maidenhead M.B.	-	35.3	TZ and (mant)	413.6
Wokingham M.B.		11.5	Kent (part)	48.0
Bradfield R.D.	• 1	28.3	Chatham M.B	71.0
Cookham R.D.	•	16.6	Gillingham M.B	59.4
Wokingham R.D.		49.2	Maidstone M.B	1
Wokingham K.D	•	-17.2	Rochester M.B.	50.2
		1070	Royal Tunbridge Wells M.B	39.7
Buckinghamshire (part)		197.0	Southborough U.D	9.7
Aylesbury M.B		27.0	Tonbridge U.D	22.3
Bletchley U.D		16.9	Maidstone R.D	20.0
High Wycombe M.B		50.2	Malling R.D	40.0
Linslade U.D	.	4.1	Strood R.D	28.8
Marlow U.D	.	8.7	Tonbridge R.D	24.6
Aylesbury R.D	.	30∙5		
Wing R.D		8.9	Oxfordshire (part)	31.5
Wycombe R.D.	.	50∙6	Henley M.B.	9.0
	1		Henley R.D.	22.5
Essex (part)		343.7		
Southend-on-Sea C.B	.	163.7	Common (mont)	91.4
Benfleet U.D.	•	32.6	Surrey (part)	27.0
Chelmsford M.B.	•	49.9	Farnham U.D	16.4
Rayleigh U.D.		19.1	Godalming M.B	
Chelmsford R.D.	•	47.7	Haslemere U.D	12.7
Rochford R.D.		30.7	Hambledon R.D	35.3
Rochiord R.D		30.7		Ì
			Sussex, East (part)	123.7
Hampshire (part)	.	93.1	Burgess Hill U.D	14.1
Aldershot M.B		27.9	Cuckfield U.D	20.1
Farnborough U.D	.	29.0	East Grinstead U.D	15.5
Fleet U.D	.	13∙0	Cuckfield R.D	30.5
Hartley Wintney R.D	.	23.2	Uckfield R.D	43.5
Hertfordshire (part)	.	145.0	Sussex, West (part)	45.3
Baldock U.D	.	6.7	Horsham U.D	21.3
Berkhamsted U.D		13.5	Horsham R.D.	24.0

Rest of South East England

TABLE 6

Con	stitu	ent ar	eas			1961 civilian population (thousands)	Constituent areas	1961 civilian population (thousands)			
(1)						(2)	(2)				
The whole of the counties: Cambridgeshire Dorset Isle of Ely Huntingdonshire Norfolk Suffolk, East Suffolk, West Isle of Wight			•	raphic		187·7 308·9 88·7 76·7 552·6 340·1 126·9 92·3	The parts of the following geographical counties that are not within the Metropolitan Region: Bedfordshire (part)	173·5 154·8 53·5 318·3 1,214·4 533·8 274·5 538·3 310·1			

Civilian population changes

England and Wales and South East England 1951-61

(thousands)

TABLE 7

					Ch	anges 1951	<i>1–61</i>				
Area		ibution 951	Та	otal	By births	and deaths	Estimated gain from armed forces	Estimated net balance by migration		Distribution 1961	
	No.	Per cent	No.	Per cent	No.	Per cent	No.	No.	Per cent	No.	Per cent
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
England and Wales	43,269	100.0	2,583	6.0	1,975	4.6	321	287	0.7	45,852	100.0
South East England Metropolitan region Midlands South West England Northern England Wales	16,480 11,605 7,732 2,947 13,541 2,569	38·1 26·8 17·9 6·8 31·3 5·9	1,267 796 652 185 427 52	7·7 6·9 8·4 6·3 3·2 2·0	730 575 465 99 597 84	4·4 5·0 6·0 3·4 4·4 3·3	124 87 58 22 98 19	413 134 129 64 —268 —51	2·5 1·2 1·7 2·2 —2·0 —2·0	17,747 12,402 8,384 3,132 13,969 2,621	38·7 27·0 18·3 6·8 30·5 5·7
South East England London conurbation Outer metropolitan region Inner country ring Outer country ring Rest of South East England	16,480 8,321 3,284 1,658 1,626 4,875	100.0 50·5 19·9 10·0 9·9 29·6	1,267 —189 985 659 326 471	7·7 -2·3 30·0 39·7 20·0 9·6	730 334 241 156 85 155	4·4 4·0 7·3 9·4 5·2 3·2	124 60 27 14 13 37	413 583 717 489 228 279	2·5 7·0 21·8 29·5 14·0 5·7	17,747 8,132 4,269 2,317 1,952 5,345	100·0 45·8 24·1 13·1 11·0 30·1

^{1.} The estimates are for civilian population only and allowance has, therefore, to be made for reduction in the size of the armed forces over the period. In the absence of information on the destinations of demobilised personnel, the net gain to the civilian population of the country as a whole from this source has been allocated to areas (column 8) pro rata to their 1951 populations.

^{2.} The estimates of net migration (column 9) have been calculated by deducting from the total change (column 4) the estimates of natural change (column 6) and the allowances made for gains from the armed forces (column 8).

		Population of South East England									
77	Enu	merated	Civilian								
Year	No. (thousands)	Percentage of the population of England and Wales	No. (thousands)	Percentage of the population of England and Wale							
(1)	(2)	(3)	(4)	(5)							
1801	3,214	38.6									
1811	3,669	38.5									
1821	4,321	38.4									
1831	4,954	37.8									
1841	5,579	37-2									
1851	6,307	35.2									
1861	7,047	35.1									
1871	8,031	35.4									
1881	9,157	35.3									
1891	10,409	35.9									
1901	11,786	36.2									
1911	13,276	36⋅8									
1921	13,663	36.1									
1931	14,897	37.3									
1941	No Census	No Census									
1951	16,653	38.1	16,480	38.1							
1961	17,868	38.8	17,747	38.7							

NOTE

The figures given in column 2 are the census enumerated populations. In column 4 the Registrar General's mid-year estimates for 1951 and 1961 are given for comparison; equivalent estimates are not available for earlier years.

Population changes in a cross-section of the metropolitan region 1901-1931-1961

Table 9

(thousands)

		Censu	s enumera	ted populo	tion		Population changes					
Area	19	1901		31	1961		1901–31		193161		1901–61	
	No.	Per cent	No.	Per cent	No.	Per cent	No.	Per cent	No.	Per cent	No.	Per cent
(1)	 (2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
All areas	4,029.5	100.0	4,662.0	100.0	4,504.3	100.0	632.6	16	—157·7	_ 3	474.9	12
Outer metropolitan region (west) Outer country ring Inner country ring	177·9 129·0 48·9	4·4 3·2 1·2	257·6 172·0 85·6	5·5 1·8 3·7	442·0 263·3 178·8	9·8 5·8 4·0	79·7 43·1 36·6	45 33 75	184·5 91·2 93·2	72 53 109	264·2 134·3 129·9	149 104 266
Suburbs (west) Inner urban (west) Central area Inner urban (east) Suburbs (east)	 3,751·7 118·3 1,158·8 504·1 1,900·2 70·3	93·1 2·9 28·8 12·5 47·2 1·7	4,126·1 316·7 1,275·7 347·0 1,923·1 263·6	88·5 6·8 27·4 7·4 41·3 5·7	3,432·1 567·4 1,072·7 214·4 1,229·7 347·8	76·2 12·6 23·8 4·8 27·3 7·7	374·4 198·4 117·0 — 157·2 22·9 193·3	10 168 10 - 31 1 275	694·0 250·7 203·0 132·5 693·4 84·3	17 79 16 38 36 32	-319·6 449·1 - 86·1 -289·7 -670·5 277·5	9 380 7 58 35 395
Outer metropolitan region (east) Inner country ring Outer country ring	99·9 49·0 50·9	2·5 1·2 1·3	278·3 126·4 152·0	6·0 2·7 3·3	630·2 383·4 246·8	14·0 8·5 5·5	178·5 77·3 101·1	179 158 199	351·8 257·0 94·8	126 203 62	530·3 334·3 196·0	531 682 385

NOTES

1. The figures used are the census enumerated populations and not the civilian populations. The enumerated populations in the 1901 and 1931 Censuses have been adjusted to relate to the local authority areas as constituted in 1961.

2. The cross-section has been defined in terms of local authority areas and its width varies from 5 to 10 miles. The local authorities included are:

Outer metropolitan region (west)	Outer country ring Inner country ring	Reading C.B., Maidenhead M.B., Wokingham M.B., Bradheid R.D., Cookham R.D., Wokingham R.D. New Windsor M.B., Slough M.B., Eton U.D., Eton R.D.
Conurbation	Suburbs (west)	Ealing M.B., Heston and Isleworth M.B., Southall M.B., Uxbridge M.B., Hayes and Harlington U.D., Ruislip and Northwood U.D., Yiewsley and West Drayton U.D.
	Inner urban (west)	Chelsea Met.B., Fulham Met.B., Hammersmith Met.B., Hampstead Met.B., Kensington Met.B., Paddington Met.B., St. Pancras Met.B., Acton M.B., Brentford and Chiswick M.B., Willesden M.B.
	Central area Inner urban (east)	City of London, Finsbury Met.B., Holborn Met.B., St. Marylebone Met.B., City of Westminster. Bethnal Green Met.B., Hackney Met.B., Islington Met.B., Poplar Met.B., Storeditch Met.B., Stepney Met.B., Stoke Newington Met.B., East Ham C.B., West Ham C.B., Barking M.B., Leyton M.B., Walthamstow M.B.
	Suburbs (east)	Dagenham M.B., Ilford M.B., Wanstead and Woodford M.B.
Outer metropolitan region (east)	Inner country ring Outer country ring	Romford M.B., Basildon U.D., Brentwood U.D., Hornchurch U.D. Southend-on-Sea C.B., Benfleet U.D., Rayleigh U.D., Rochford R.D.

Live births

England and Wales and South East England 1946-62

(thousands)

	South East England										
Year	England and Wales		To	otal	London conurbation		Outer metropolitan region		Rest of South East England		
	No.	Index (1955=100)	No.	Index (1955=100)	No.	Index (1955=100)	No.	Index (1955=100)	No.	Index (1955=100	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
1946	820.7	123	307-9	126	159.7	139	58.8	105	89.4	120	
1947	881.0	132	326.2	133	168.1	147	63.1	112	95.0	128	
1948	775.3	116	281.0	115	142.1	124	55-4	99	83.6	113	
1949	730.5	109	263.0	107	131.9	115	53.1	95	78.9	106	
1950	697.1	104	250.5	102	124.0	108	49.2	88	76.9	104	
1951	677.5	101	245.2	100	120.4	105	50.5	90	74.3	100	
1952	673.7	101	243.6	99	118.3	103	51.3	91	74·0	100	
1953	684-4	102	246.7	101	117.9	103	52.9	94	75.9	102	
1954	673.7	101	246.8	101	116.6	102	54.5	97	75.7	102	
1955	667.8	100	245.0	100	114.7	100	56.1	100	74-2	100	
1956	700-3	105	256.6	105	119.2	104	60.4	108	77.1	104	
1957	723.4	108	265.3	108	121.0	105	64-4	115	79.9	108	
1958	740.7	111	275.0	112	125.0	109	69·1	123	80.8	109	
1959	748.5	112	279.8	114	126.5	110	71.7	128	81.6	110	
1960	785.0	118	295.2	120	133.2	116	75.8	135	86·1	116	
1961	811.3	112	306-1	125	138.2	120	80.0	143	87.8	118	
1962	838-7	126	318.4	130	143.3	125	83.6	149	91.4	123	

^{1.} The table gives the number of live births occurring during each calendar year as recorded in the Registrar General's annual Statistical Review, Part II.

^{2.} The figures in heavy type are the post-war low points for each area.

TABLE 11

Reception capacity in existing new towns

mid-1961

New town Year of designation		Population at designation	Increase by planned growth in development stage	Population proposed for end of development stage	Estimated population mid-1961	Capacity remaining in mid-1961		
(1)			(4)	(5)	(6)	(7)		
All London new towns .			352,000	451,000	337,000	114,000		
Crawley	1947	10,000	44,000	54,000	54,000	_		
Hemel Hempstead	1947	21,000	42,000	63,000	55,000	8,000		
Basildon	1949	25,000	61,000	86,000	54,000	32,000		
Bracknell	1949	5,000	45,000	50,000	21,000	29,000		
Harlow	1947	4,500	66,500	71,000	54,000	17,000		
Hatfield	1948	8,500	16,500	25,000	21,000	4,000		
Stevenage	1946	7,000	53,000	60,000	43,000	17,000		
Welwyn Garden City .	1948	18,000	24,000	42,000	35,000	7,000		

^{1.} This table relates only to the planned population growth in the development stage of the new towns, during which they are administered by development corporations. In the second stage of the development of the existing new towns there will be no further planned inward movements from London although the population will continue to grow, mainly by natural increase. Crawley and Hemel Hempstead have now reached this stage and the assets of the development corporations were transferred to the Commission for the New Towns on 1st April 1962.

^{2.} The Bracknell designated area has been extended since mid-1961 thus enabling the population at which planned growth is expected to cease (column 5) to be raised from 40,000 to 50,000. The figure in column 7 therefore represents the difference between 50,000 and the estimated population at mid-1961.

POPULATION STATISTICS

Reception capacity in agreed town development schemes mid-1961

(1)	(3)	(4)
Outer metropolitan region 41,000 Aylesbury 10,500 Bletchley 10,500 Canvey Island 1,400 Frimley and Camberley 4,100 Houghton Regis (Luton R.D.) 4,900 Letchworth 6,100 Luton 3,500 Rest of South East England 142,400 Andover 21,000 Ashford (Kent) 14,900 Banbury 7,000 Basingstoke 40,300 Bury St. Edmunds 5,200 Haverhill 5,000 *King's Lynn 12,300 *Mildenhall 7,000 St. Neots 3,500 *Sudbury and Cornard 7,000 Thetford 5,200	30,000	
Aylesbury 10,500 Bletchley 10,500 Canvey Island 1,400 Frimley and Camberley 4,100 Houghton Regis (Luton R.D.) 4,900 Letchworth 6,100 Luton 3,500 Rest of South East England 142,400 Andover 21,000 Ashford (Kent) 14,900 Banbury 7,000 Basingstoke 40,300 Bury St. Edmunds 5,200 Haverhill 5,000 *King's Lynn 12,300 *Mildenhall 7,000 St. Neots 3,500 *Sudbury and Cornard 7,000 Thetford 5,200	1	186,700
Bletchley	12,300	28,700
Canvey Island 1,400 Frimley and Camberley 4,100 Houghton Regis (Luton R.D.) 4,900 Letchworth 6,100 Luton 3,500 Rest of South East England 142,400 Andover 21,000 Ashford (Kent) 14,900 Banbury 7,000 Basingstoke 40,300 Bury St. Edmunds 5,200 Haverhill 5,000 Huntingdon 3,500 *King's Lynn 12,300 *Mildenhall 7,000 St. Neots 3,500 *Sudbury and Cornard 7,000 Thetford 5,200	900	9,600
Frimley and Camberley 4,100 Houghton Regis (Luton R.D.) 4,900 Letchworth 6,100 Luton 3,500 Rest of South East England 142,400 Andover 21,000 Ashford (Kent) 14,900 Banbury 7,000 Basingstoke 40,300 Bury St. Edmunds 5,200 Haverhill 5,000 Huntingdon 3,500 *King's Lynn 12,300 *Mildenhall 7,000 St. Neots 3,500 *Sudbury and Cornard 7,000 Thetford 5,200	4,300	6,200
Frimley and Camberley 4,100 Houghton Regis (Luton R.D.) 4,900 Letchworth 6,100 Luton 3,500 Rest of South East England 142,400 Andover 21,000 Ashford (Kent) 14,900 Banbury 7,000 Basingstoke 40,300 Bury St. Edmunds 5,200 Haverhill 5,000 Huntingdon 3,500 *King's Lynn 12,300 *Mildenhall 7,000 St. Neots 3,500 *Sudbury and Cornard 7,000 Thetford 5,200	800	600
Houghton Regis (Luton R.D.) 4,900 Letchworth 6,100 Luton 3,500 Rest of South East England 142,400 Andover 21,000 Ashford (Kent) 14,900 Banbury 7,000 Basingstoke 40,300 Bury St. Edmunds 5,200 Haverhill 5,000 Huntingdon 3,500 *King's Lynn 12,300 *Mildenhall 7,000 St. Neots 3,500 *Sudbury and Cornard 7,000 Thetford 5,200	1,400	2,700
Letchworth 6,100 Luton 3,500 Rest of South East England 142,400 Andover 21,000 Ashford (Kent) 14,900 Banbury 7,000 Basingstoke 40,300 Bury St. Edmunds 5,200 Haverhill 5,000 Huntingdon 3,500 *King's Lynn 12,300 *Mildenhall 7,000 St. Neots 3,500 *Sudbury and Cornard 7,000 Thetford 5,200	3,400	1,500
Luton 3,500 Rest of South East England 142,400 Andover 21,000 Ashford (Kent) 14,900 Banbury 7,000 Basingstoke 40,300 Bury St. Edmunds 5,200 Haverhill 5,000 Huntingdon 3,500 *King's Lynn 12,300 *Mildenhall 7,000 St. Neots 3,500 *Sudbury and Cornard 7,000 Thetford 5,200	600	5,500
Andover 21,000 Ashford (Kent) 14,900 Banbury 7,000 Basingstoke 40,300 Bury St. Edmunds 5,200 Haverhill 5,000 Huntingdon 3,500 *King's Lynn 12,300 *Mildenhall 7,000 St. Neots 3,500 *Sudbury and Cornard 7,000 Thetford 5,200	900	2,600
Ashford (Kent) 14,900 Banbury 7,000 Basingstoke 40,300 Bury St. Edmunds 5,200 Haverhill 5,000 Huntingdon 3,500 *King's Lynn 12,300 *Mildenhall 7,000 St. Neots 3,500 *Sudbury and Cornard 7,000 Thetford 5,200	1,700	140,700
Banbury 7,000 Basingstoke 40,300 Bury St. Edmunds 5,200 Haverhill 5,000 Huntingdon 3,500 *King's Lynn 12,300 *Mildenhall 7,000 St. Neots 3,500 *Sudbury and Cornard 7,000 Thetford 5,200		21,000
Banbury 7,000 Basingstoke 40,300 Bury St. Edmunds 5,200 Haverhill 5,000 Huntingdon 3,500 *King's Lynn 12,300 *Mildenhall 7,000 St. Neots 3,500 *Sudbury and Cornard 7,000 Thetford 5,200	100	14,800
Basingstoke 40,300 Bury St. Edmunds 5,200 Haverhill 5,000 Huntingdon 3,500 *King's Lynn 12,300 *Mildenhall 7,000 St. Neots 3,500 *Sudbury and Cornard 7,000 Thetford 5,200		7,000
Bury St. Edmunds 5,200 Haverhill 5,000 Huntingdon 3,500 *King's Lynn 12,300 *Mildenhall 7,000 St. Neots 3,500 *Sudbury and Cornard 7,000 Thetford 5,200	100	40,200
Haverhill 5,000 Huntingdon 3,500 *King's Lynn 12,300 *Mildenhall 7,000 St. Neots 3,500 *Sudbury and Cornard 7,000 Thetford 5,200		5,200
Huntingdon 3,500 *King's Lynn 12,300 *Mildenhall 7,000 St. Neots 3,500 *Sudbury and Cornard 7,000 Thetford 5,200	700	4,300
*King's Lynn	100	3,400
*Mildenhall		12,300
St. Neots		7,000
*Sudbury and Cornard 7,000 Thetford 5,200		3,500
Thetford		7,000
	700	4,500
	-	10,500
Elsewhere	16,000	17,300
	20,000	•
		1,800
Swindon	16,000	5,000 10,500

NOTE

The schemes marked with an asterisk have been agreed since mid-1961; the whole of the planned increase in population is included in the calculation of capacity available within the period of the Study (column 4).

Age structure

Table 13

London new towns and England and Wales 1961

(thousands)

	ļ	Total population										
Age group		London ne	ew towns	England and Wales								
		No.	Per cent	No.	Per cent							
(1)		(2)	(3)	(4)	(5)							
All ages .		335.5	100.0	45,852	100.0							
0-4		42.6	12.7	3,665	8.0							
5-9		37.5	11.2	3,254	7-1							
10–14	•	30.5	9.1	3,667	8.0							
15–19		18.9	5.6	3,150	6.9							
20–24	.	17.8	5.3	2,752	6.0							
25–29	.	28.2	8.4	2,797	6⋅1							
30–34	.	33.5	10.0	2,939	6∙4							
35–39	.	32.0	9.5	3,196	7.0							
40-44	•	23.9	7.1	3,053	6.7							
45–49	.	19-2	5∙7	3,225	7.0							
50-54		14.2	4.2	3,206	7-0							
55–59	. 1	10.8	3.2	2,962	6.5							
60–64		8.2	2.5	2,465	5-4							
65–69	.	6.7	2.0	1,996	4.4							
70–74		5.3	1.6	1,540	3.4							
75–79	.	3.5	1.0	1,087	2.4							
80–84	.	1.8	0.6	601	1.3							
85 and over.		0.9	0.3	297	0.6							

- 1. The eight London new towns are listed in Table 11.
- 2. The age structure of their population (column 2) is based on the 1961 Census enumerated population. The figures for England and Wales (column 4) are the Registrar General's estimates for the civilian population as at 30th June 1961.

(thousands)

Area				bution 952		hange 152–62	Distribution 1962			
			No.	Per cent	No.	Per cent	No.	Per cent		
(1)			(2)	(3)	(4)	(5)	(6)	(7)		
England and Wales		•	18,684	100-0	1,933	10.3	20,617	100.0		
South East England Midlands South West England Northern England Wales			7,262 3,435 1,072 5,981 934	38·9 18·4 5·7 32·0 5·0	1,083 426 143 240 41	14·9 12·4 13·3 4·0 4·4	8,345 3,861 1,215 6,221 975	40·5 18·7 5·9 30·2 4·7		

Changes in the distribution of employees

England and Wales and South East England 1955-62

(thousands)

TABLE 15

Area		bution 155		inge 5–62	Distribution 1962			
	No	Per cent	No.	Per cent	No.	Per cent		
(1)	(2)	(3)	(4)	(5)	(6)	(7)		
England and Wales	19,307	100.0	1,310	6.8	20,617	100.0		
South East England Metropolitan region Midlands South West England Northern England Wales	7,579 5,784 3,595 1,113 6,074 946	39·3 30·0 18·6 5·7 31·5 4·9	766 571 266 102 147 29	10·1 9·9 7·4 9·1 2·4 3·1	8,345 6,356 3,861 1,215 6,221 975	40·5 30·8 18·7 5·9 30·2 4·7		
South East England	7,579	100.0	766	10.1	8,345	100.0		
London conurbation Outer metropolitan region	4,444 1,340 <i>677</i> <i>663</i> 1,795	58·6 17·7 8·9 8·8 23·7	293 278 168 111 195	6·6 20·8 24·7 16·7 10·9	4,737 1,619 845 774 1,990	56·8 19·4 10·1 9·3 23·8		

NOTE

The estimates for subdivisions of South East England, except the London conurbation, incorporate adjustments to cover employees (such as established civil servants not holding national insurance cards) who are excluded from the Ministry of Labour statistics for areas smaller than complete regions and the London conurbation. They are, therefore, less precise than the other estimates.

	Industrial Order			Distrib	Changes in numbers of employees in		
No.	Title			South East	England	England and Wales	employment in Great Britain 1952–62
				No. (thousands)	Per cent	Per cent	Per cent
(1)	(2)			(3)	(4)	(5)	(6)
	All industries			8,273.3	100.0	100.0	10
	Primary industries			222.8	2.7	5.4	
I	Agriculture, Forestry, Fishing .	_		204.0	2.5	2.3	25
$\bar{\Pi}$	Mining and Quarrying			18.9	0.2	3.1	— 19
	Manufacturing industries			2,770·1	33.5	39.2	
VI IX	Engineering and Electrical Goods Metal Goods not elsewhere specified			} 992.4	12.0	12.3	20
XV	Paper, Printing and Publishing .	•	• •	322.3	3.9	2.7	23
VIII	Vehicles	•		290.6	3.5	4.1	14
m	Food, Drink and Tobacco		•	274.5	3.3	3.5	13
XII	Clothing and Footwear			188.4	2.3	2.6	- 1
IV	Chemicals and Allied Industries .			173.6	2.1	2.4	10
XIV	Timber, Furniture, etc			135-3	1.6	1.3	2
XVI	Other Manufacturing Industries .			124.4	1.5	1.4	25
XIII	Bricks, Pottery, Glass, Cement, etc.			91.6	1.1	1.6	3
V	Metal Manufacture			55.9	0.7	2.7	12
VII	Shipbuilding and Marine Engineering			55.8	0.7	0.9	16
X	Textiles			42.9	0.5	3.4	13
XI	Leather, Leather Goods and Fur			22.5	0.3	0.3	- 8
	Service industries			5,280.4	63.8	55-4	
XX	Distributive Trades			1,156.8	14∙0	12.7	25
XXIII	Miscellaneous Services			986∙8	11.9	9.3	5
XXII	Professional and Scientific Services			848.7	10.3	9.4	36
XIX	Transport and Communication .			674.8	8.2	7.2	— 4
XVII	Construction			572-5	6.9	6∙7	16
XXIV	Public Administration and Defence			556∙3	6.7	5.8	2
XXI	Insurance, Banking and Finance.			335-9	4 ·1	2.6	31
XVIII	Gas, Electricity and Water			148.6	1.8	1.7	4

^{1.} In this table South East England comprises Ministry of Labour London and South Eastern and Southern Regions, and does not include Dorset.
2. Industries are classified by the Industrial Orders given in the 1958 edition of the Standard Industrial Classification. Within each broad category, the Orders are listed in descending order of the size of their labour forces in the South East.
3. Some employees who cannot be industrially classified are excluded from these estimates.

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	Estimated numbers of employees											
Area	Primary	industries	Manufactur	ing industries	Service industries (including Construction							
	No.	Per cent	No.	Per cent	No.	Per cent						
(1)	(2)	(3)	(4)	(5)	(6)	(7)						
England and Wales	1,115	5.4	8,080	39·2	11,421	55.4						
South East England Metropolitan region Midlands South West England Northern England Wales	232 72 275 73 408 127	2·8 <i>I·1</i> 7·1 6·0 6·6 13·0	2,782 2,258 1,913 381 2,702 302	33·3 35·6 49·6 31·4 43·4 31·0	5,331 4,016 1,673 760 3,111 546	63·9 63·3 43·3 62·6 50·0 56·0						
South East England	232	2.8	2,782	33.3	5,331	63.9						
London conurbation Outer metropolitan region . Inner country ring Outer country ring Rest of South East England .	18 55 22 33 159	0·4 3·4 2·6 4·2 8·0	1,588 670 374 296 525	33·5 41·7 44·6 38·5 26·2	3,131 884 <i>443</i> <i>441</i> 1,315	66·1 54·9 52·8 57·3 65·8						

- 1. For the Industrial Orders included in each of the three broad categories see Table 16.
- 2. The estimates for subdivisions of South East England, except the London conurbation, incorporate adjustments to cover employees (such as established civil servants not holding national insurance cards) who are excluded from the Ministry of Labour statistics for areas smaller than regions and the London conurbation. They are, therefore, less precise than the other estimates.
 - 3. Some employees who cannot be industrially classified are excluded from these estimates.

Changes in numbers of employees in primary, manufacturing and service industries

England and Wales and South East England 1955-58 and 1959-62

(thousands)

		All industries			Primary industries				Manufacturing industries				Service industries (including Construction)			
Area	1955	58	1959–62		1955	1955–58		1959-62		1955–58		9–62	1955–58		1959–62	
	No.	Per cent	No.	Per cent	No.	Per cent	No.	Per cent	No.	Per cent	No.	Per cent	No.	Per cent	No.	Per cent
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
England and Wales	369.0	1.9	892.0	4.5	54.6	— 4 ·0	—172 ∙7	—13·4	78 ·0	6.9	384.9	5.0	343.3	3⋅5	685.0	6.4
South East England Metropolitan region Midlands South West England Northern England Wales	236·5 198·7 42·0 20·5 64·0 6·0	3·1 3·4 1·2 1·8 1·1 0·6	477·5 347·0 215·6 59·5 115·4 24·0	6·1 5·8 5·9 5·1 1·9 2·5	16·0 5·8 8·0 6·8 14·2 9·5	— 5·6 — 6·3 — 2·4 — 7·7 — 2·9 — 5·8	— 10·0 — 41·8 — 8·4 — 66·5	12·1 12·2 13·2 10·3 14·0 16·1	11.7	2.7	173·3 118·8 134·0 20·6 39·5 17·5	6.6 5.6 7.5 5.7 1.5 6.1	162·5 143·5 63·8 15·2 85·0 16·8	3·6 4·2 4·6 2·4 3·2 3·6	338·0 240·9 123·9 47·8 144·2 31·1	6·8 6·4 8·0 6·7 4·9 6·0
South East England London conurbation Outer metropolitan region Inner country ring Outer country ring Rest of South East England	236·5 84·0 114·7 59·1 55·5 37·8	3·1 1·9 8·6 8·7 8·4 2·1	477·5 190·0 157·0 99·1 57·9 130·6	6·1 4·2 10·7 13·3 8·1 7·0	16·0 0·4 5·4 3·3 2·1 10·2	- 5·6 - 1·9 - 7·7 11·3 - 5·1 - 5·3	— 0:8 — 9:2 — 3:4 — 5:8		89·5 —11·5 73·0 40·9 32·2 27·9	0·7 13·2 <i>14</i> ·2	173·3 33·4 85·4 58·3 27·1 54·5	6·6 2·1 14·6 18·5 10·1 11·6	162·5 95·8 47·8 20·4 27·4 18·9	3·6 3·6 5·9 5·7 6·0 1·7	338·0 158·0 82·9 46·4 36·5 97·1	6·8 5·3 10·3 11·7 9·0 8·0

^{1.} For the Industrial Orders included in each of the three broad categories see Table 16.

^{2.} The estimates for subdivisions of South East England, except the London conurbation, incorporate adjustments to cover employees (such as established civil servants not holding national insurance cards) who are excluded from the Ministry of Labour statistics for areas smaller than regions and the London conurbation. They are, therefore, less precise than the other estimates.

^{3.} The estimates for all industries, columns 2 and 4, include some employees who cannot be industrially classified and who are accordingly excluded from the numbers recorded under primary, manufacturing and service industries.

Employment structure (all industries) analysed by reference to national employment changes 1952-62

England and Wales 1962

Each of the Industrial Orders in the Standard Industrial Classification has been placed in one of three groups according to the changes in the numbers employed in the industries in each Order in Great Britain as a whole over the period 1952-62. The percentage changes in employment in each of the Industrial Orders for the period are given in Table 16 (column 6). The table shows the distribution of employees in each of these groups of industries in 1962. The three groups are defined as follows:

Group I. Employment increase of 20 per cent and over

Group II. Employment increase of 0 to 19 per cent

Group III. Decline in employment

(thousands)

TABLE 19

				Distribution of employees										
Area				III stries		oup I stries	1	up II stries	Group III industries					
				No.	Per cent	No.	Per cent	No.	Per cent	No.	Per cent			
(1)				(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)			
England and Wales			•	20,615.2	100-0	8,471.8	100.0	8,050.8	100.0	4,092.6	100.0			
South East England Midlands South West England Northern England Wales	•	· · ·	•	8,273·3 3,860·5 1,285·8 6,220·9 974·9	40·1 18·7 6·2 30·2 4·7	3,780-5 1,557-5 485-1 2,333-0 315-8	44·6 18·4 5·7 27·5 3·7	3,285·6 1,552·2 559·8 2,240·5 412·7	40·8 19·3 7·0 27·8 5·1	1,207·2 750·9 240·9 1,647·4 246·3	29·5 18·3 5·9 40·3 6·0			

NOTES

- 1. In this table South East England comprises Ministry of Labour London and South Eastern and Eastern and Southern regions, and does not include Dorset.
- 2. Changes in the numbers employed over the period June 1952 to June 1962 have been estimated by the Ministry of Labour for Industrial Orders as defined in the 1958 edition of the Standard Industrial Classification. They cover all persons aged 15 and over, in employment, excluding employers and persons working on their own account. They include employees temporarily laid off and persons unable to work on account of sickness.
 - 3. Some employees who cannot be industrially classified are excluded from these estimates.

EMPLOYMENT STATISTICS

Employment structure (manufacturing industries) analysed by reference to national employment changes 1959-62

England and Wales 1962

Each manufacturing industry defined by a Minimum List Heading in the Standard Industrial Classification has been placed in one of five groups according to the changes in the numbers employed in that industry in Great Britain as a whole over the period 1959–62. The table shows the distribution of employees in each of these groups of manufacturing industries in 1962. The five groups are defined as follows:

Group I. Employment increase of 20 per cent and over

Group II. Employment increase of 10 to 19 per cent

Group III. Employment increase of 0 to 9 per cent

Group IV. Decline in employment 0 to 9 per cent

Group V. Decline in employment of 10 per cent and over

(thousands)

	Distribution of employees												
Area		ufacturing stries	Group I industries		Group II industries		Group III industries		Group IV industries		Group V industries		
	No.	Per cent	No.	Per cent	No.	Per cent	No.	Per cent	No.	Per cent	No.	Per cent	
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
England and Wales South East England Midlands South West England Northern England Wales	8,079·9 2,770·1 1,912·7 393·2 2,701·6 302·4	100·0 34·3 23·7 4·9 33·4 3·7	558·0 305·0 88·7 24·6 126·6 13·1	100·0 54·7 15·9 4·4 22·7 2·3	789·2 546·5 87·3 468·2 52·3	100·0 40·6 28·1 4·5 24·1 2·7	3,689·3 1,180·0 1,020·9 169·4 1,145·0 174·1	32·0 27·7 4·6 31·0 4·7	1,324·6 371·5 173·9 82·0 653·3 43·9	28·0 13·1 6·2 49·3 3·3	564·5 124·3 82·8 29·9 308·6 19·0	22·0 14·7 5·3 54·7 3·4	

NOTES

^{1.} In this table South East England comprises Ministry of Labour London and South Eastern and Eastern and Southern regions, and does not include Dorsef.

^{2.} Changes in the numbers employed over the period end-June 1959 to mid-June 1962 have been derived from *Numbers employed in Great Britain: Industrial Analysis* published in the *Ministry of Labour Gazette*. They cover all persons, aged 15 and over, in employment, excluding employers and persons working on their own account. They include employees temporarily laid off and persons unable to work on account of sickness.

Industries with increases in employment of 3,000 or more

South East England 1959-62

		Manufacturing industry		Service industry					
Scale of employment growth (in South East England)		Minimum List Heading	Increase in numbers of employees (thousands)			Minimum List Heading	numl empi	ease in pers of loyees esands)	
	No.	Title	No.	Per cent	No.	Title	No.	Per cent	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
Over 20,000	364	Radio and other electronic	29.9	20	820	Retail distribution	62.3	9	
	201	apparatus	21.2	1 ,,	899	Other miscellaneous services .	45.9	27	
	381	Motor vehicle manufacturing.	21.3	14	500 872	Construction	40.5	8	
					860	Insurance, banking and finance	38·1 25·5	13	
					874	Medical and dental services .	23.3	8	
10-20,000	351 489 399	Scientific, surgical and photographic instruments, etc. Other printing, publishing, bookbinding, engraving, etc. Metal industries not elsewhere	15·3 13·7 12·2	19 11 16	810 906 707 887	Wholesale distribution Local government service . Postal services and telecommunications Motor repairers, distributors,	19·5 15·6 13·8	8 5 10	
	349	specified Other mechanical engineering not elsewhere specified	11.8	18		garages and filling stations			
3–10,000	496	Plastics moulding and fabricating	7.9	26	889	Hairdressing and manicure .	8.7	25	
	339	Other machinery	7-4	6	706	Air transport	8.1	24	
	212	Bread and flour confectionery.	6.8	18	879	Other professional and scientific	7.0	7	
	486	Printing, publishing of news-	6.7	9		services		1	
	469	papers and periodicals Abrasives and building materials,	6-6	18	709	Miscellaneous transport services and storage	6.7	18	
		etc., not elsewhere specified			602	Electricity	6.3	8	
	272	Pharmaceutical and toilet preparations	6.6	17	873 832	Legal services Dealing in other industrial	5·3 5·0	15 10	
	341	Industrial plant and steelwork	5.1	17		materials and machinery			
	333	Engineers' small tools and gauges	4.9	35	704	Sea transport	4.4	6	
	361	Electrical machinery	4.6	10	871	Accountancy services	4.2	13	

TABLE 21 continued

		Manufacturing industry		Service industry						
Scale of employment growth (in South East England)		Minimum List Heading	Increase in numbers of employees (thousands)			Minimum List Heading	Increase in numbers of employees (thousands)			
	No.	Title	No.	Per cent	No.	Title	No.	Per cent		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)		
3–10,000	445	Dresses, lingerie, infants' wear, etc.	4.1	8	901 883	National government service . Betting	4·2 3·3	2 34		
	369	Other electrical goods	3.8	6				1		
	214	Bacon curing, meat and fish products	3.7	20						
	491	Rubber	3.6	12				1		
	338	Office machinery	3.3	10		1		1		
	494	Toys, games and sports equip- ment	3.2	23						
	337	Mechanical handling equipment	3.1	24			1			
	474	Shop and office fitting	3.0	23						

NOTE

In this table South East England comprises Ministry of Labour London and South Eastern and Eastern and Southern regions, and does not include Dorset.

Industries with increases in employment of 3,000 or more

London conurbation 1959-62

		Manufacturing industry		Service industry					
Scale of employment growth (in the conurbation)		Minimum List Heading	Increase in numbers of employees (thousands)			Minimum List Heading	Increase in numbers of employees (thousands)		
	No.	Title	No. Per cent		No.	Title	No.	Per cen	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
Over 20,000		·			899	Other miscellaneous services (see Note 2)	36.3	24	
					820 500	Retail distribution	30·6 26·5	8 10	
10-20,000					860	Insurance, banking and finance	11.5	5	
					810 874	Wholesale distribution Medical and dental services .	11·1 11·0	6 7	
3–10,000	364	Radio and other electronic apparatus	9.5	11	906 707	Local government service . Postal services and telecom-	8·3 8·2	5 9	
	381	Motor vehicle manufacturing .	8.5	13	101	munications	0.7		
					872	Educational services	8.1	6	
	489	Other printing, publishing, bookbinding, engraving, etc.	7.0	8	706 709	Air transport Miscellaneous transport services	6·3 4·3	22 14	
	351	Scientific, surgical and photo- graphic instruments, etc.	6.5	11	602	and storage Electricity	3.2	7	
	399	Metal industries not elsewhere specified	4.7	9	871 704	Accountancy services Sea transport	3·0 3·0	12	
	212	Bread and flour confectionery .	4.5	19					
	486	Printing, publishing of news- papers and periodicals	4.4	7					
	341	Industrial plant and steelwork .	3.5	14					

NOTES

1. The figures in this table relate to the Ministry of Labour's Greater London area; this does not differ substantially from the conurbation.

^{2.} Examples of 'other miscellaneous services' are service of Commonwealth and foreign governments and international organisations; trade associations and trade unions; business services; head offices of firms operating abroad; and head offices of firms which are concerned with more than one activity and which cannot, therefore, be classified in any other heading.

Area	Floor space completed	Esti	Employment provided as a percentage of the				
	(million sq. ft.)	Total	Male	Female	— total insured population June 1952		
(1)	(2)	(3)	(4)	(5)	(6)		
England and Wales	395.0	599·1	389·2	209.9	3.2		
South East England	128-3	203.9	128-2	75.7	2.8		
Metropolitan region	97-7	<i>139</i> ·4	91.5	47.9	n.a.		
Midlands	91.2	109.8	66.9	42.9	3.2		
South West England	21.6	38⋅0	24.9	13.1	3.4		
Northern England	128.8	202.7	136.7	66.0	3.4		
Wales	25·1	44.7	32.5	12.2	4.8		
South East England	128·3	203.9	128-2	75:7	2.8		
London conurbation	44.5	44-2	27.4	16.8	1.0		
Outer metropolitan region	53.2	95⋅2	64.1	31.1	n.a.		
Rest of South East England	30.6	64.5	36.7	27.8	n,a,		

NOTES

1. In this table South East England is defined in terms of Board of Trade (cols. 2-5) or Ministry of Labour (col. 6) regions, and does not include Dorset.

^{2.} The statistics of industrial building relate only to those new buildings and extensions for which Board of Trade locational approval has had to be obtained. In respect of such schemes approved up to 31st March 1960, only those completed projects which involved more than 5,000 sq. ft. of floor space and which were for applicants engaged in the manufacturing industries have been included. All completed projects for which approvals were given since that date are included. In these cases the figures cover only those parts of buildings for which an Industrial Development Certificate, as provided for in the Local Employment Act 1960, was required.

	Item										
		-							Change	Total	
		(2)	(3)								
Pre-war offices 1939								.		87.0	
War damage .				•		-	•	.	 9⋅5		
Existing, mid-1948								.		77-5	
Change, 1948-mid-19	62							.	37-3		
New building									35.5		
Change of use.								.	10.0		
Demolitions .	•		•		•		•	- [8.2		
Existing, mid-1962								.		114.8	
Future commitments								.]	25.6		
Approved but not y	et co	mplet	ed (ne	t)				.	14.0		
Estimated further c	omm	itmen	ts	•		•	•	.	11.6		
Total				•				.		140-4	

NOTES

- 1. The total for approvals not yet completed is a *net* figure arrived at by deducting from the total floor space in all outstanding approvals the amount of floor space in existing offices which will be lost through demolition. Permissions for sites which have subsequently been developed for other purposes are not included.
- 2. Central London comprises the Greater London Conurbation Centre as defined in the 1961 Census (see Fig. 16, page 37).

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Printed in England for Her Majesty's Stationery Office by McCorquodale & Co. Ltd., London S.E.

A11177-Wt. 3395-2507 K160 2/64. MCC3309.

Part One

THE PROBLEM

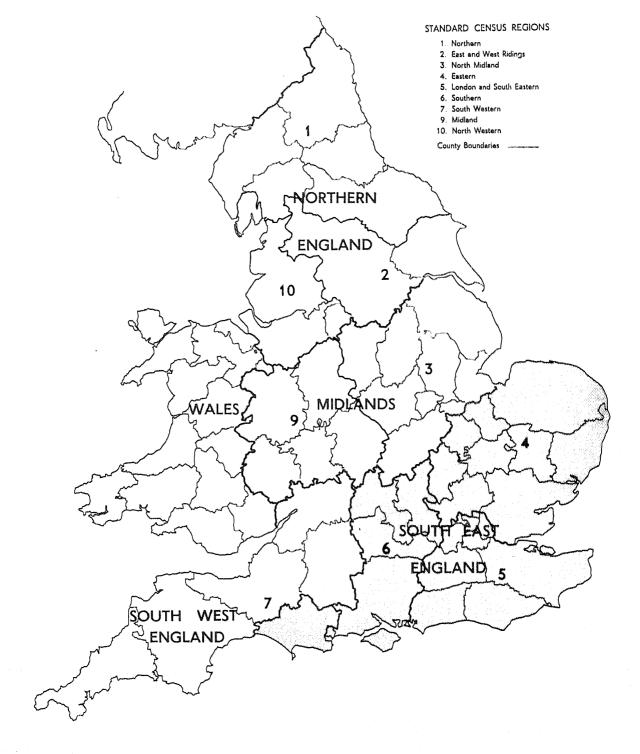
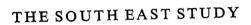


Fig. 2. Major divisions of England and Wales

These divisions are comprised of standard regions as defined for Census purposes with the exception of South East and South West England. South East England comprises standard regions 4, 5 and 6, together with the remainder of Dorset which is part of standard region 7 (see Appendix 2, Table 1)



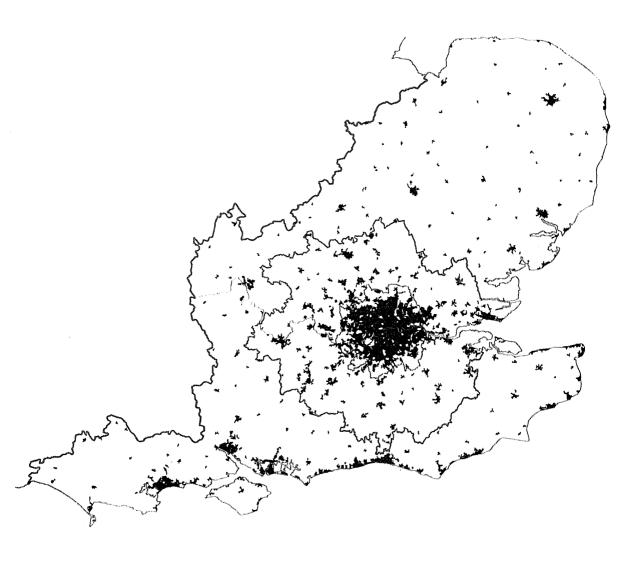


Fig. 1. The main built-up areas of South East England 1958

The map shows the extent of built-up areas in terms of bricks and mortar. Open uses on the periphery of towns (e.g. grounds of hospitals, institutions and large houses, and airfields) are not shown as built up; within towns, only the largest open spaces are shown