| War                                      | Ave    | rage annual person | nnel    | Average annual | Average annual | De          | bt          |
|--|--------|--------------------|---------|----------------|----------------|-------------|-------------|
|  | Navy   | Army               | Total   | expenditure    | tax revenue    | Begin       | End         |
| 1689–97<br>Nine Years War                | 40,262 | 76,404             | 116,666 | 5,456,555      | 3,640,000      | _           | 16,700,000  |
| 1702–13<br>War of Spanish Succession     | 42,938 | 92,708             | 135,646 | 7,063,923      | 5,355,583      | 14,100,000  | 36,200,000  |
| 1739–48<br>War of Austrian<br>Succession | 50,313 | 62,373             | 112,686 | 8,778,900,     | 6,422,800      | 46,900,000  | 76,100,000  |
| 175663<br>Seven Years War                | 74,800 | 92,676             | 167,476 | 18,036,142     | 8,641,125      | 74,600,000  | 132,600,000 |
| 1775–84<br>American War                  | 82,022 | 108,484            | 190,506 | 20,272,700     | 12,154,200     | 127,300,000 | 242,900,000 |

Table 2.1 The logistics of war, 1689-1784

SOURCE: British Parliamentary Papers, vol. 35 (1868-9); B. R. Mitchell and Phyllis Deane, Abstract of British Historical Statistics (Cambridge, 1962), pp. 401-2.

**Patterns of Military Effori** 

foreign troops to fight in Europe also persisted, though the sums spent on foreign regiments and armies was far greater than ever before. Both these tackeds helped circumscribe the scope of the standing army. They also enabled the state to give higher priority to its naval forces. Though

They also enabled the state to give higher priority to its naval spending occasionally the navy was consistently smaller than the army, naval spending occasionally exceeded and never lagged far behind the army expenditure. The *ptr capita* cost of a wartime sailor was double that of a soldier in the army, mostly because of the navy's higher maintenance costs. But it also reflects Britain's determination to sink money into the navy so as to develop its support services and infrastructure. The great military buildings of eighteenth-century England were not barracks and forts but the dry-docks, stores, roperes and building yards of the royal navy. And when we compare the distribution of military spending with that of other European powers, the priority given to the navy is obvious. With the exception of the Dutch, and the French during the American War of Independence, no other major state devoted such a high proportion of its expenditure to a floating force.

European armies in this period and the proclivity of regimental officers to overestimate the strength of their forces in order to pocket the pay allowances of nonexistent men, a practice that had inditutional approval in many states, men for whom money had been set aside. parliamentary figures do not include troops on the Irish establishment (12,000 meant that armies were never at their full/complement. On the other hand the naouation of soldiers in the field. It is certain that these are overestimates of the actual number of combatants. The high rates of desertion common to all tabulation of soldiers in the field. It is certain that these are overestimates more accurate: they are totals/of men actually listed as serving rather than of figures, which are of men borne by the navy, including naval marines, are British army's commitment during wars of several years' duration. The nava Acts. time, apart from the unreliable estimates inserted in the preamble to the Mutiny and American Wars. They are, in any case, the only continuous series over men in all), nor the number of militizmen muttered during the Seven Years with some caution. The army numbers show men/voted by parliament, not a The figures for the armed forces provided in Table 2.1 have to be treated For all their weakness, they provide a good general indication of the

For all the problems with/such statistics, it is difficult to challenge their broad trajectory, which is indisputably upward. On the basis of these estimates, the army, having doubled in size during the Nine Years War, when it reached a peak of 87,500, grew yet again in the struggle over the Spanish Succession. Between 1702 and 17/3 it averaged nearly 93,000 men. In the final year of the war there were 144,650 under British arms. Compared with these earlier conflicts, the Wayof Austrian Succession saw, for the first and last time during the century, a reduction in the size of the wartime army. Only in 1746 did it exceed a total of 70,000 men. Whereas in 1702 an establishment of 28 battalions had been increased to 80, during the 1740s the total rose to a mere 67. But the Seven Years War saw the renewal of the upward trend. Between 1756 and

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devoted so much of their resources to their navies. Indeed, there is no reason immediately downplays the military effort of powers like were not membely of a national standing army: bodkes of militiamen such as why naval German states; separate bodies of foreign troops subsidized to fight on behali Equally, we should find some way to include in our calculations soldiers who considerably those mustered in tctivity. 3 The English, Dutch, French and strength should not feature in any overall assessment of military arger and France, Spain, more expensive than the armies of minor states. England, Spanish fleets, Dennark, Sweden and severa After all Britain were each which

of a particular nation. A second assumption that needs to be questioned is that 'militarized' states, those whose civilian apparatus had been either militarized or made subordinate to military control, were thereby more capable exponents of military effort in the arena of international conflict. This is to confuse the type of domestic regime and its capacity for domestic repression with its ability to wage war on other states. An 'unmilitarized' state, as the Dutch and English cases show, was well capable of distinguished 'military effort'. Indeed, as we shall see, there are good reasons to suppose that states that provided their subjects with certain civil freedoms were thereby better able to mobilize their resources for

war. and 1780s annual expenditure increased almost fifteen-fold; between the Nine peaks of expenditure during activities on public spending Years War and the American War it increased by War annual spending reached a total of almost £ tripled to over £7 million each year. A £2 million per annum. overall trend is upward. ever before, required both in great quantities. The effects of Britain's military resources, money and men. Eighteenth\century warlare, greater in scale than Regardless of the type of regime, Ву Before 1688 total public expenditure rarely exceeded the War of Spanik years of war outlined in those who waged war needed two vita generation later, during the American Figure 2.1, show a clear pattern troughs in years of peace. h Succession it had more than o million. Between the 1680s factor of six. The

and the end of the American War. and Schofield,28 increased by years earlier 27 The population of England and Wales, according to Wrigley and the accession of George III. Only after 1760 was there g per capita. But neither inflation nor population growth do they consider population changes in order to calculate public expenditure increase, so that by the 1780s prices were some 25 per cent hi inflation. Prices were relatively stable between the was therefore very little offset by population growth. by 600 per cent in constant prices. The per capita increase in public These tigures do not allow, it it true, for the effect of price inflation; not the data. ttile of the growth in public spending 46 per cent between the Glorious Revolution In the same period late expenditure increased can be explained by has any major effect eventeenth . discernible price her than twenty expenditure century

As Figure 2.1 also makes clear, eighteenth-century English governments



Figure 2.1 Government expenditures, 1691–1785 SOURCE: British Parliamentary Papers, vol. 35 (1868–9)

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Patterns of Military Effort

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spent very little on civilian affairs. Civil expenditure – which effectively meant the domestic expenses of the monarch and his court, the so-called civil list – remained remarkably stable throughout this period, rising slowly from an average of just under  $\pounds$  million per annum to just less than  $\pounds_1$ , million by the 1780s. For all the complaints of back-bench parliamentarians about the extravagances of the monarch and his court, the civil list accounted for only a small percentage (usually less than 15 per cent) of total government costs. The real expenses lay elsewhere. Eighteenth-pentury English governments, lite most Furthern their monarch their m

The real expenses lay elsewhere. Eighteenth-dentury English governments, like most European powers, spent their money waging war. Between 75 per cent and 85 per cent of annual expenditure went either on current spending on the army, navy and ordnance or to service the debts incurred to pay for earlier wars. These figures indicate that Britain had as substantial a commitment to military expenditure as an European power. Even if we exclude spending to service the debt, then current military expenditure accounted for between 61 per cent and 74 per cent of public spending during the major wars of the period (see Table 2.2). This does not compare with Russian disbursements during the Great Northern War with Sweden, when 90 per cent of Peter the Great's revenue was spent on his army and navy. It is, however, roughly comparable to the proportion of public expenditure spent on the armed forces in Prussia during the second half of the century and outstrips the 25 per cent spent by the French during the last years of the *armeen regime*.<sup>29</sup>

Such a comparison is, however, slightly invidious. Though the proportion of Britain's total public spending on the armed forces was high by contemporary standards (as was their expenditure per man), the outlay probably represented a much smaller percentage of national resources than in many other states.

 Table 2.2
 Military spending as a percentage of total government expenditure,

 1688-1783

| War       | Total spending | Military spending | vending |
|-----------|----------------|-------------------|---------|
|           | (£000)         | (foco)            | %       |
| 1689-1697 | 49109          | 36270             | 74      |
| 1702–13   | 98207          | 64718             | 66      |
| 1739-48   | 87789          | 55814             | 64      |
| 1756-63   | 116664         | 82727             | 71      |
| 1775-83   | 178482         | 891601            | 61      |

SOURCE: British Parliamentary Papers, vol. 35 (1868-9).

Britain's military spending during major wars absorbed between 10 and 15 per cent of national income (see Table 2.3). This is roughly comparable to the figure given by Peter Dickson for total Austrian expenditure as a percentage of national income in 1780.<sup>30</sup> Bits it is probable that a state like Prussia, with a smaller population, a less developed commercial economy and an extremely large army, spent a far greater proportion of its wealth on military affairs.

## Patterns of Military Effort

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Unfortunately the absence of national income figures for most continental states prevents us from putting this expenditure on 'military effort' in comparative perspective.

| 1710   | Year                     | Table 2.3  |
|--------|--------------------------|--|
| ° 8.ور | National income<br>(£m)  | Table 2.3 Military expenditure as a percentage of national income, 1710-80 |
| 5-4    | Military spendin<br>(£m) | ntage of national i  |
| 9.0    | nding<br>%               | ncome, 1710–80   |

SOURCE: British Parliamentary Papers, vol. 35 (1868-9).

1740

1760 1780

> 55.2 69.4

97.7

5.5 9.9 12.2

10,0 14.0 12.5

powers, the British hijed regiments from Hesse-Cassel, Hesse-Hanau, Brun-swick, Ansbach-Bayreuth, Waldeck and Anhaly Zerbst.<sup>33</sup> persisted throughout the contury. During the American War over 32,000 Germans fought for the Brytish against the colonists. Drawing on the resources not Spanish. British armies were equally dependent upon foreign manpower. about 38 per cent of the Prussian troops were not Prussian subjects; by the wartime French army might consist of foreign troops, 32 A similar foreign Swiss and Irishmen. According to André Corvisier, three-quarters of the example, contained many foreign units, including bodies of Germans, Italians, as a measure of the effect of military recruitment on the civilian labour market of the size of European armies are an extremely crude indicator.<sup>31</sup> Their value by inadequate economic statistics, a comparison of manpower commitment of those small German states which specialized in renting troops to other Catholic), the United Provinces, Denmark, Sweden and Prussia. The pattern in 1751 28 of the army's 13 battalions were manned by troops who were presence was to be found in the Prussian and Spanish armies. At mid-century foreigners in almost all of the large armies of Europe. The French army, for is largely vitlated by the presence of a large (and varying) proportion of William III, fought each other with troops from France (both Huguenot and founders on the question of what manpower figures mean. Aggregate numbers During the campaign in Ireland in 1690, two British monarchs, James II and last quarter of the century the proportion had risen to over a half. In Spain If a comparative assessment of government spending on war is hampered

We face further difficulties if we ask how many subjects in a given state aquired military experience as a result of their nation's engagement in war. In order to answer this question we need to know more about an army than its size. The frequency and length of wars (which, in ture, affected the size of the armide deployed) and the turnover in army personnel also have to be taken into account. Death and descrition meant that the composition of armies changed rapidly. During the Seven Years War the French army lost about

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task is a matter to which we will return later in this chapter. monarch. If and how this changed the attitude of government officials to their number of state employees were courtiers or the personal retainers of the

Tables 3.1 and 3.2 collate some of the available data on administrative

Table 3.1 Employees in administrative departments, 1692–1755

| 1692    | 1708  | 1716 | 1726  |  | 1745   | 1748   | . 1755   |
|---------|---|------|---|--|--|--|--|
| Ħ       | 7   | 29   | 25  |  | 46   | 4.2  | 2  |
| ₽<br>+  | 16,   | 12 \ | 4   | 20   | 19   | 21   | 22   |
| Ι.      | 10  | 60   | 3.  | 100  | 50,  | 114  | 5.   |
| •       |   | , S  | , J   | 241  |  | .5   |  |
| رب<br>د | œ   | 7    | 7   | ~  | œ  | ~  | 6  |
| ļ       | ¢   | ł    | 80  | 16   | 81   | io   | 91   |
| I       | I   | 37   | 15  | 87   | 86   | 56   | 100  |
| 00      | 12  | 11   | 91  | 20<br>0  | ы<br>С   | 5  | 12   |
| 1       | m   | ч    | 4   | ł  | 5  | 20   | 1,   |
|         | ò   | •    | .   |  | 2  |  |  |
| ¥       | 10  | د ا  | 7.7   | 65   | g  | ٥ <u>4</u>   | 200  |
| 16      | I   | I    | 4   | ω  | u.   | Ś  | 89   |
| 16      | I   | г    | N   | 14   | 5  | IJ   | 101  |
| ۍ<br>ور | ~   | بر)  | ىپ  | 42   | 43<br>3  | 37   | 106  |
| ĺ       | ł   | ĺ    | 1   | 26   | 28   | 29   | 29   |
| I       | I   | ļ    | ļ   | 17   | 61   | 20   | 5  |
| Ś       | ∞   | 24   | õ   | 16   | 16   | ۲.   | ζć   |
|         |   | 7    | ,   | •••  | دمن  | مى   | 36   |
|         | ~     3557   ∞   377   2<br>2<br>2<br>3<br>3<br>4<br>1<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3 | '    | и мани и мани<br>1800 и мани и<br>1800 и мани и | 1708 1716<br>35 129<br>6 7<br>12 11<br>12 11<br>12 11<br>13 17<br>14 1<br>15 17<br>15 17<br>16<br>17<br>17<br>17<br>17<br>17<br>17<br>17<br>17<br>17<br>17<br>17<br>17<br>17 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |

(1748); 38th edn (1755)

Table 3.2 Full-time employees in the fiscal bureaucracy, 1690–1782/3

|                           |      |      |                |      |           |      | •      | ,          | ,     |               |
|---------------------------|------|------|----------------|------|-----------|------|--------|------------|-------|---------------|
|                           | 0691 | 1708 | 1716           | 1726 | 1741      | 1748 | 1755   | 1763 ~1770 | ~1770 | 1782/3        |
| Customs                   | 1313 | 1839 | 1750           | 1161 |           | 1939 | 1832   | 2290       | 2244  | 2205          |
| Excise                    | 1211 | 2247 | 2778           | 3466 | 3745      | 3360 | 3294   | 3973       | 4066  | 4908          |
| Salt                      |      | 298  | 404            | 465  |           | 484  | 468    | [410]      | [410] | 364<br>(1779) |
| Stamps                    |      | 73   | 84             | 112  | 611       | 115  | 117    | [011]      | [011] | [120]         |
| Post Office               |      | 128  | 23 I           | 232  | 152+      | 162+ | 253    | [200]      | [200] | [200]         |
| Treasury and<br>Exchequer |      | 124  | 180            | 601  | 137       | 234  | 110    | [200]      | [100] | [200]         |
| Wines etc.                |      | 41   | 29             | 47   | şε        | Şθ   | 55     | [so]       | [so]  | [٥٥]          |
| Other                     |      |      | 491<br>(hides) | ١ţĵ  | 133       | 245  | 245    | 245        | 245   | 245           |
| Total                     | 2524 | 4780 | 5947 6497      |      | 6765 6595 | 5659 | 5 6484 | 7478       | 7525  | 1 8292        |

edn (1692); 22nd edn (1708); 24th edn (1716); 27th edn (1726); 34th edn (1741); 37th edn (1748); 38th edn (1755); British Library Harleian Mss 7431, Add. Mss 10404, Add. Mss 37838; PRO Customs 48/18 H. 120-5; PRO Treasury 44/38, 48/23; Cambridge University sounces: Edward/John Chamberlayne, Angliae Notitia; or, the Present State of Britain, 17th Library, Add. Miss 5224, 5227, 5239.

NOTE: [] = estimates

**Civil Administration: The Central Offices of Government** 

of war and the admiratistrative demands of empirecoverage of departments, its general trend is upenstakable.8 The Navy Board, departments indicate that the growth of these offices was not exceptional. the Board of Trade and the Secretary of State's Office all grew fourfold. growth in this period. Though Table 3.1 is far from comprehensive in Almost every branch of government expanded in response to the exigencies Contemporary comment and fragmentary qualitative evidence from other its

|             | Table 3.3 (                   |
|-------------|-------------------------------|
| 1690        | Growt                         |
| 1708        | h in j                        |
| 1708 1716   | fiscal b                      |
| 1726        | Growth in fiscal bureaucracy, |
| 1741        | асу, 1                        |
| 1748        | , 1690–1782/3                 |
| 55ZI        |                               |
|             | (1690 = 100)                  |
| 1763 1770 1 | 100)                          |
| 1782        |                               |
| ,           |                               |

|      |      |      | ,    |      |      |      |      |      | -    |            |
|------|------|------|------|------|------|------|------|------|------|------------|
| 405  | 336  | 328  | 272  | 277  | ŝoŝ  | 286  | 229  | 186  | 100  | Excise     |
| 295  | 285  | 286  | 245  | 249  | 256  | 246  | 223  | 181  | 100  | All depts. |
| 1782 | 1770 | 1763 | 1755 | 1748 | 1741 | 1726 | 1716 | 1708 | 1690 |            |

SOURCES: See Table 3.2.

revenue. These were the solid core around which subsequent expansion was increase in the total number of employees occurred in the departments of by the end of the American War.9 number of revenue officers increased threefold, reaching a total of nearly 8300 built. As Tables 3.2 and 3.3 indicate, between 1690 and 1782/5 the overall Though some departments had more rapid rates of growth, the greatest

rate. Walpole was either unable or unwilling to take the opportunity conferred by the absence of a major war to retrench the fiscal administration. century, the fiscal bureauxracy continued to grow, albeit at a much slower next twenty-five years, and despite the longest period of peace in the eighteenth with which government as a whole grew between 1688 and 1714. During the XIV, when revenue employment more than doubled to a total of nearly 6000. constant. The most rapid increases occurred during the wars against Louis This expansion in fiscal administration was largely tesponsible for the swittness The pace at which the fiscal departments expanded was not, however,

in administration since the Treaty of Utrecht. cedented scale and at unprecedented expense, produced the most rapid growth financial demands of the Seven Years War. This conflict, fought on an unpreconsistent with . . . service'10 Kad the astonishing result of checking the growth of fiscal employees actually fell. His policy of economy, as far as it is Europe and in the colonjés. Such retrenchment fell victim, however, to the in fiscal administration, eyen though the hation was fighting wars both in all the more impressive. During Pelham's years in office (1742-54) the number This failure makes the achievement of Walpole's successor, Henry Pelham,

other revenue departments taken together (Tables 3.3, 3.4). By the end of the underwent the greatest expansion. Between 1690 and 1782 it grew more than fourfold, and from the 1720s more men worked for the Excise than for all the Excise was by fat the most important of the fiscal offices, and the one which If the revenue departments were the largest employers of state servants, the



Figure 4.1 Total net tax income, 1690–1791 SOURCE: British Parliamentary Papers, vol. 35 (1868–9)

## Money, Money, Money: The Growth in Debts and Taxes

commodity output and per allowance for population change and price inflation, they conclu utely and comparatively, Brita the comparable French figui during the Napoleonic Wars, which rose to an astonishing 35 per cent of both in 1785.9 Though these way, the share of British per capita income appropriated as taxes rose from 11 and 12 per cent of national income during the American War.<sup>7</sup> Put another appropriated as taxes rose from approximately more than a myth. They demonstrate that the percentage of nazional income investigations of cent of output appropriated as taxes in 1715,/20 per cent in 1760, 22 taxes as a share of formmodity output bear out the same secular trend: 17 per the proportion hit over 9 per traditional view that England was lightly taxed by European standards is no 16 per cent in Morineau's episodic calculations are born out by the more systematic cent by the end of the War of Spanish Succession and to between 716 to 20 per cent in 1760. At th Peter Mathias and d reached 23 per cent.<sup>8</sup> Mathias and O'Brien's figures for figures do not compare with the incidence of taxation *capita* income, they are nevertheless almost twice es tor the fighteenth century. Judged both absolin was/heavily taxed Patrick O'Brien. 3.5 per/cent in the 1670s to end of the American War After тақ per cent that the 8 19 due

This was not lost on contemporaries. William Pulteney spoke for many Englishmen when he exclaimed,  $N_{\rm V}$ 

Let any gentleman but look into the Starute Books lying upon our Table, he will there see to what a vast Bulk, to what a Aumher of Volumes, our Statutes relating to Taxes have swelled since the Revolution . . . It is monstrous, it is even frightful to look into the Indexes, where for several Columns together we see nothing but Taxes, Taxes, Taxes.

Tax Collection

The effectiveness with which the British state taxed its subjects was in large part a direct consequence of a major transformation in the British fiscal system that occurred gradually between the Restoration and the mid-eighteenth century, as England moved from a fiscal system marked by heterogeneity and amateurism to a tax administration characterized by the orderly collection of public moneys by a prédominantly professional body of state officials.

royal officials who were amply outnumbered by those who were no crown relied on four different bodies of men to collex subject to appointees/of the crown. This bureaucratic patchwork of authorities the House of/Commons, and who administered collection of such branches of the revenue as the Customs and to the sheriff and government of mentary commissioners, appointed not by royal authority but Tax collection uniform surveillance or direction. As a result, some taxes were priaks, who ranged in rank from the humble parish constable after the Restoration lacked administrative coherence. JP; the employees of tax farmers who contracted for the direct and po its revenues: loca. by members of Excise; parliataxes; and t the direct was not The 90

THE SINEWS OF POWER





Figure 4.3 Percentage contribution to government revenue of three principal taxes SOURCE: British Parliamentary Papers, vol. 35 (1868–9)

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a grad swift incrementation collected in the Nine per cent of al of tax inco excise £6.5 million. By 1760 excise revenue alone exceeded the total of average annual state revenue tax accounted for 55 per cent of revenue. Thereafte izsos was tollow Walpole's pro history of the excise is the very reverse. In the period before 1713 the performance was sometimes weak and often erratic, though it showed improvement in the last years of the War of Spanish Succession. the revenue grew steaduly, ne. For most of the period after 1714 it constituted more than 40 receipts. In the year of the Excise Crisis (1733), when Sir Robert posed reforms expanding excise jurisdiction ed by a sharp increase during and after the Seven Years War. Years War. The American by the end of the confligt returns had almost reached gradually outrunning al A gradual rise in receipts up to the War repeated this pattern of were deteated, the ✓other sources

source of state income. the extent to which Britain aggregate return advance rentle increase and mild declension. Rettirns in the 1780s were more than iouble those at mid-century the American War. Though the customs revenues never grew as quickly as excise receipts, their When steadily from ЪаJ and showed a marked improvement at the end tded to come to rely on indirect taxes as the chief the excise receipts they clearly indicate the mid-century, after a period g

rate. After 1755 the land tax was never again the pound. Seven Years War and of Britain's colonial acquisitions pushed up the peacetime during hostilities to pay the maximum of was a marked discrepancy by whether or not the nation was at land tax receipts varied according have to pay more than Within these broad trends ther ŝþi between w ur sgurð õ were many short-term fluctuations. the rate, which, in turn, was determined war. Until the Seven Years War there and pound in shillings. But the expense of the peacetime rates: it was vied at less than 3 shillings in peacetime, and normal rare to The

eighteenth-century conflict in which the customs revenue rose of the enemy's disruption of English trade. The Seven Years was also affected by poor harvests – the success of harvests; and, because it was often a tax on consumption, the products of agricultural processes, the excise depended to some degree on levels of economic activity. As a tax on domesticall receipts. Similarly the customs returns usually dropped in tim Customs and excise receipts were, of course, the circumstances of the 1690s and of 1 fluctuations in demand. Tight money, dependent upon changing produced goods, chiefly I – pushed down low demand and e ot war, bécause ar was the first Ħ

In the long-term history of English taxation, the period between 1688 and 1714 stands/out as an anomaly. Before the Glorious Revolution indirect taxes provided most of the government's revenue. After the Hanoverian Succession a similar pattern obtained. Only under William and Mary and Anne did direct imposts in the form of the land tax dominate revenue collection. The land tax, despite its heavy incidence on the landed classes, was preferred by the House THE SINEWS OF POWER

Table 4.1 Excise establishment, 1690-1783

| LADIC THE LANDS COMPREMENT, TOYOTT/OF | TALISC C | 51404550   | 11011L, 10 | o/r-ofi | ,           |              |      |         |
|---------------------------------------|----------|------------|------------|---------|-------------|--------------|------|---------|
| Country                               | 1690     | 1694       | 6691       | 1700    | 1701        | 1701-14 1708 | 1708 | 1714(1) |
| Collectors                            | 91       | 61         | 42         | 42      | 42          | 42           | õ    | 1 5 2   |
|                                       | 5        | <u>، ز</u> | 4          | -       | : 1         | 1            | ) -  |         |
| Supervisors                           | 85       | 80         | 16         | 68      | 98          | 101          | 140  | 199     |
| Gaugers                               | loi l    | 6101       | 1139       | 0601    | 1088        | 95£1         | 1810 | 1994    |
| Others                                | 40       | 27         | γ          | ,       | 53          | 60           |      | 41      |
| Country total                         | 1149     | 1213       | 1322       | 1221    | 1269        | 6551         | 2000 | 2286    |
| London                                |          |            |            |         |             | (1705)       |      |         |
| Field officers                        | 113      | 120        |            |         | Ιζ2         | 147          | 166  |         |
| Central                               | ιS       | 54         |            |         | 36          | :            |      |         |
|                                       |          |            |            |         | (no clerks) | 98 (s        | 18   |         |
| London total                          | 164      | х74        |            |         | 188         | 233          | 247  |         |
| Total                                 | 13I3     | 7861       |            |         | 1457        | 1792         | 2247 |         |

sources: Edward/John Chamberlayne, Angliae Notitia; or, the Present State of England, 17th edn (1692); 22nd edn (1708); 24th edn (1716); 27th edn (1726); 34th edn (1741); 37th edn (1748); J8th edn (1755); British Library Harleian Mss 7429, 7431, Add. Mss. 10404, Add. Mss 37838, Portland Loan 29/283; PRO Customs 48/11 ff. 135, 269-74, 48/18 ff. 120-5, 251-6, Treasury 44/15, 44/38, 48/88 ff. 227 et seq. London University Mss 134.

a single collection with 113 field officers in 1690 and 780 in 1780. Among these were a body of surveyors - the London equivalent of the provincial supervisor who were answerable to an inspector-general. The only difference between London and the provinces was that there was no metropolitan equivalent to the country collector who handled excise moneys. Traders paid their taxes directly to the receiver-general in the London central office.

In the central office itself the majority of its officials (gf in 1690, 309 in 1783) were engaged in one of four tasks: they received moneys from collectors and traders; they drew up current accounts; they audited accounts; or they inspected the excise officers' journals which were sent to London at the end of every collector's round. The commissioners presided over the whole operation, attending the Lords of the Treasury one day a week, taking two days to sit and hear excise cases in their cafacity as the metropolitan court of summary jurisdiction and devoting the remainder of their time to routine business.

The work performed by excise officers was technical, complex and timeconsuming. Entrants to the service were required to pass both a written and practical test and to complete a period of puptlage. The examination was not a formality. John Cannon of Lydford in Devon studied 'Cockers decemall Arithmetick Lightbodys art of Gauging' and hired a schoolmaster to help him with his mathematics.<sup>26</sup> Tom Paine, perhaps the most famous of all excise officers, studied for fourteen months before becoming a supernumerary in 1761,<sup>27</sup> Many traince officers found the work too difficult and arduous and simply gave up. Those who succeeded in qualifying were undoubtedly as technically proficient as any body of revenue officers in Europe. They learnt

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|      | 4066                             | 3973                                   | 3294           | 3360                             | 3745   | 3625                            | 3564                            | 2778                                    | 2738                             |
|------|----------------------------------|--|----------------|----------------------------------|--|---------------------------------|---------------------------------|---|----------------------------------|
|      | 1 <b>5</b> 6                     | 902                                    | 656            | 722                              | 707  | 659                             | 665                             | 468                                     | 274                              |
|      | 724<br>227                       | 684<br>218                             | 1 5 3<br>1 5 3 | 552<br>170                       | 547<br>160                                   | 528<br>131                      | 476<br>123                      | 310<br>158                              | 173<br>101                       |
| 3150 | 53<br>253<br>2704<br>105<br>3115 | 52<br>52<br>247<br>2598<br>174<br>3071 | 2638           | 190<br>190<br>2300<br>98<br>2638 | ر<br>دور<br>190<br>190<br>1700<br>98<br>3038 | 50<br>118<br>2700<br>98<br>2966 | 49<br>118<br>2700<br>98<br>2965 | 48<br>198<br>1973<br>1973<br>91<br>2310 | 51<br>208<br>2101<br>104<br>2464 |

how to use decimals, square roots and cube roots as well as the geometry of cones, spheres, rhomboids and cylinders. They were also instructed in bookkeeping and accounting, the use of the slide rule and the art of gauging. Excisemen were skilled and proud of the fact: they described themselves as 'artists', wrote treatises and textbooks on mathematics and measurement and offered private instruction in penmanship and arithmetic.

The work was hot only skilled but arduous. A footwalk which was surveyed every day by an officer was between 12 and 16 miles in length. Offirides were much longer.<sup>28</sup> When the scheme of excise rounds was first developed in the 1680s, many of the outrides surveyed by officers were between 4c and 50 miles. Warminster, for brample, was a 50-mile ride and required the survey of over a hundred victuallers. Marlborough was even larger – 63 miles in all.<sup>29</sup> But by the Hanoverian Succession most rides had been reduced to 30 miles, though additional excises meant that more premises than ever before needed inspecting.

Carrying their books, seven instructions, pen and special inkpot attached to their lapels, officers often worked long hours.<sup>30</sup> Their supervisors worked for even longer. In 1710, George Cowperthwaite, supervisor in the Richmond (Yorkshire) district, travelled ever 290 miles in 23 days between 12 June and  $\varsigma$  July. On that round he visited 263 victualles, 71 maltsters, 29 chandlers and one common brewer; in all he took 81 gauges. He visited 1 $\varsigma$  premises a day and checked the work of 9 different excisemen. Eight years later Cowperthwaite was working at the same pace in the Wakefield district. He travelled an average of more than 19 miles a day, six days a week. On a normal day he would inspect four or five premises, take a full set of gauges in at least one of them, and carefully examine the books of one or two officers. On Sundays he made up his diaries for the examiners' office in London.<sup>31</sup> Tom Paine, summarizing the remarks of many officers throughout the century, said of excise work that 'There is one generally allowed truth . . . that no Set of Men 104

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comp example - it was a paragon of efficiency which meant that distressed imagine. principieș trader iberties, excise law was not as unpopular amongst traders as we might at first For all its administrative strength and seeming denial of traditional English ared with other courts which dealt with civil litigation knew that his agonies in court would be mercifylly brief. But the Its greatest advantage was the swiftness of its proceedings. When vpolitical and legal commentators throughout/the century. which underpinned the workings of excise/law ,únderstandably even the guilty 'Chancery, for

such, he was the symbol of a new form of officer, but in ensure that England of the state's determination to extract sufficien or tea sold over judicial officer, tor he worked not merely in the ports and on th The exciseman was a ubiquitous presence in eighteenth-century England, every small town and hamlet where working under a system of the counter. He was a state offi secured its place as a mayor international power. stacuto giai revenues from the public to rnment. beed y administrative law. An executive rather than coast, and ale were brewed He was also a sign like the customs Ą

Public Gredit

gently decliping/plateaux of peace. produced a pattern of sharp and ever taller escarpments punctuated eighteenth cenfury. fifteenfold in current prices. This pattern of growth mirrored, in more exagger-£245 million by 1783. In less than a centur effect. During both the debt almost doubled: from \$74 million to \$133 million \$50 million. Though the debt declined slowly during the peaceful 1720s and of 1720 – the South Sea Bubble – Succession. Peace brought little respite and, by the time of the financial crash of the era complained, and secure income which/made bofrowing both comparatively cheap and ated and distorted between 1756 and stability, it again rose rapidly/during the final years of the War of Spanish unredeemed public debt stood eighteenth century relatively simple. Public indeptedness, as every politician and political pundi 1730s, the War of Austrian Succession pushed it back up to \$76 million by The effectiveness of its tax system provided the British state with a regular 1748. The Seven Years War and the American War had an even more dramatic 1763 and from  $\pounds_{131}$  million in 1775 to an unprecedented Every war raised the profile of public debt: each conflict /torm, the other indices (see Figure grew at a prodigious rate during the course of the **4**6). (at £16.7 million, After almost a decade public indebtedness amounted to more than At the end of the Nine Years War the , the unredeemed debt had increased of English public finance in by the the <u>0</u>

As aggregate/government borrowing increased with each successive war, so the proportion of wartime expenditure funded by borrowing rose. Credit accounted for 31 per cent of spending during the War of Spanish Succession. By the time/of the American war, 40 per cent of expenditure was funded by loans.<sup>52</sup> The state's dependence on credit meant that a substantial proportion



source: B. R. Mitchell and Phyllis Deane, Abstract of British Historical Statistics (Cambridge, 1962), pp. 401-2 Money, Money, Money: The Growth in Debts and Taxes

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of tax revenue was spent on meeting interest payments on the debt (see Figure 47.7). In no year after 1707 was less than 30 per cent of state income required to service the debt. For more than half the years between 1713 and 1785 debts absorbed more than 40 per cent of revenues, and for extrem years the figure exceeded 50 per cent, reaching a peak at the end of the American War of 66 per cent of total tax revenue. As one French historian has pointed out, this was a greater burden of debt than that which provoked the crisis of 1788–9 in France.

As the debt grew so its expansion came to assume a regular pattern. By the second decade of the eighteenth century, what had originally been a jumble of different sorts of debt had been divided into two distinct categories of public obligation, short-term unfunded debts and long-term funded debts. The history of public credit is in large part the story of the interplay between these two types of public obligation. Put at its simplest, the period saw the transformation of short-term debts into long-term borrowing.

of war. They covered the expense of supply, armaments and provender and he could convert it into ¢ash. were paid off 'in course', the more recent the issue were issued by spending dep redeemable on demand and managed by the Bank of England. The other bills became the chief means of rictualling bills and ordnance debentures. Exchequer bills, which gradually The short-term deb consisted of the bi raising short-term loans, were interest-bearing bills le. sequentially in order of issue. This meant that Artments to pay for the everyday running costs 1, the longer the recipient had to wait until of exchequer bills, navy, transport, and

longer the war went on, the more severe it became. became less valuable, thereby making further extension of credit to the governthe time they would have to wait for repayment. Bills were discounted and goods on credit bécause suppliers knew that the size of the debt lengthened ment even less/attractive. It became harder or more expensive for debt increased, so it/took longer for creditors to cash their departmental bills. Succession, its growth became unmanageable. As the size of the short-term Figure 4.8). Sometimes, as in the case of the navy debt in the War of Spanish During every eighteenth-century In short, every war war the short-term debt grew rapidly (see government departments to secure created a credit crisis, and the

The solution to this problem, one that was adopted by almost all administrations towards the end of a war or shortly after the declaration of peace, was to convert the short-term liability into a long-term funded debt. In 1763, for example, £3,670,739 of navy and ordnance debt was converted into 4, per cent stock.<sup>44</sup> The interest on such stocks was paid from specific taxes earmarked by parliament.

New issues of government stock, whether to cover bulget deficits or to fund short-term debts, required either an increase in existing rates of taxation or the imposition of additional taxes. These extra revenues came from indirect taxes – customs, excise and stamp duties – not from the land tax. Fiscal policy



Figure 4.7 Total debt charges as a percentage of tax revenues SOURCE: B. R. Mitchell and Phyllis Deane, Abstract of British Historical Statistics (Cambridge, 1962), pp. 401-2; British Parliamentary Papers, vol. 35 (1868-9)

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Figure 4.8 Unfunded portion of the British debt SOURCE: B. R. Mitchell and Phyllis Deane, Abstract of British Historical Statistics (Cambridge, 1962), pp. 401-2

during components: long-term loans of increasing size; any dependence on indiffect taxes after 1714/was therefore directly linked to substantial increase issue of taxes in oi IT and IT before they A sımılar patterif eather, paper, parchment, soap, silks and Irish, books, playing cards, calicoes, candles, coal, all eighteenth-century over £20 ler to pay the interest on them. Alter wars were over (or in 1711 ad ended) short-term debts were fund¢d with new stock. Between for instance, the Earl of Oxford Introduced duties on coffee, obtained at the end of the Seven Years War. million in new government stock was underwritten in the malt and beer excises. The government's increased wars therefore contained \$alt, to raise over £8.5 million.65 hackney coaches, linens, an increase in two, interrelated In 1760-1 indirect the ਤ੍ਹ ап

growth of the long-term national debt another.66 options were feasible, the ohly alted only one of three ways. The public credit. In these circumstan repeal of such a tax, thereby removing the security of a particular stock, would to fund the debt became thereby rendering the purposes least some of the tax revenue ass thereby reduce the annual cost nterest fell, the government nave been a gross breach One important consequence of this, firmly embedded in the fiscal fabric of the state. The f publiq loan which it funded might be redeemed in full. could reduce the of the tax obsolete. If the market rate of tes the levying of the tax could be ended igned to the stock. But, if neither of these servicing the debt. This would release at mative was to replace the existing tax with confidence and a threat to the security of connection was that new taxes imposed interest paid on loans and 5

until 1712 did the obligations in the Nine Years War took the form of short-term debts, and not which provided them constrained its Earl of Oxford, in putting the debt into order. Their policies may not have is also eloquent per cent, though it reached 14 per cent during the the unfunded portion of the debt exceed 20 per tent. Usually it was under 10 differs sharply from that of subsequent wars. of the debt was unfun problems for those wl Successive administrations struggled hnancial ba The switch from short to long-term indebtedness dould hardly be clearer.67 In its early years the debt grew rapially and threatened to get out of control. growth but they certainly put public testimony to the success of Godolphin and Robert Harley, funded debt exceed unfunded obligations. ded. As Figure 4.9 shi b were to manage with much-neede the debt in the future. At first most raise money, adopting expedients funds, aws, over 70 per cent of the state's no major war after 1714 did War of Austrian Succession. but which created serious orrowing on a sounder This pattern

The history of the long-term debt falls into two periods: the first, before the Hanoverian Succession, was characterized by the floating of fixed-term loans; the second, after 1713 saw the emergence of loans for which no repayment date had been set. Under William and Anne the government adopted a variety of expedients to raise money: it borrowed by self-liquidating annuities

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(usually for lives or for ninety-nine years), by organizing public lotteries, or by selling corporate privileges (the Bank of England (1694), the New East India Company (1709) and the South Sea Company (1711)) in return for substantial loans. After 1714, however, the state was able to take advantage of the market in government securities which had developed rapidly since the Glorious Revolution to issue large amounts of stock. As Peter Dickson points out,

the development of a market in securities in London in the period r688 to 1756 was one of the most important aspects of the financial revolution. For unless facilities had existed to enable lenders to sell to a third party their claim on the state to annual interest, the government's system of long-term borrowing would never have got off the ground. The state would have been obliged to promise repayment in a limited number of years - and to keep this promise. This would have effectually stopped it from borrowing on the scale it needed.<sup>6</sup>

It could not have borrewed such amounts because the cost of paying off both principal and interest would have been beyond the means of the state's income from taxes.

ence. The government way companies were financial an securities. the Exchequer, made if easier tor seeping procedures, which werevess antiquated and cumbersome than those of assumed the managemenj money markets to ease th helped to develop the securifies market. The leading figures in the chartered The incorporated bodies of the ¢ flò ġ, 'able to draw on their expertise and knowledge of commercial capitalists of great wealth and experiating of loans. And as the companies gradually public debtors, especially the Bank of England national debt, their administrative and bookbrokers and investors to deal in government

But reliance on the corporations had its disadvantages. Ever since the foundation of the Bank of England in 1694 these institutions had provoked political controversy and economic resentment. Political and economic interests excluded from participating in state financing complained bitterly about the special advantages enjoyed by holders of public funds and tried to muscle their way into the action. In 1707, for example, the Sword Blade Company tried to wrest part of the debt away from the Bank of England.

The incorporated creditors also fought amongst themselves for a larger slice of the fiscal pie. In the same year that the Bank of England had to fend off the attentions of the Sword Blade Company, the East India Company orchestrated a run on the Bank to weaken its rival. And, when a large number of those who held the short-term debt were incorporated into the South Sea Company in 1711, the object of Lord Oxford's ministry was not only to restructure the debt but to create a tory – or, at least, non-whig – rival to the whig-dominated Bank of England.

The competition to hold a large part of the public debt is not difficult to explain. The acquisition of substantial public funds guaranteed their holder a



Figure 4.9 Fraction of the British debt unfunded SOURCE: B. R. Mitchell and Phyllis Deane, Abstract of British Historical Statistics (Cambridge, 1962), pp. 401-2