

One Hundred Years of Vertical Fiscal Imbalance in Australian Federalism

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1. Introduction

Although Australians are accustomed to thinking of themselves as citizens of a new nation - a theme even emphasised in the national anthem - in fact the Commonwealth of Australia is amongst the oldest continuing federal systems in the world, after the United States (1789), Switzerland (1848) and Canada (1867) (Watts 1999). Given the comparative longevity of the Australian federation, its remarkable stability, and the pivotal position federalism plays in the political life of Australia, it seems reasonable to expect that that this would have engendered considerable scholarly interest amongst economists in investigating the economic properties of Australian federalism.

However, this has not been the case. Indeed, several commentators have bemoaned the neglect of Australian federalism by Australian economists. For example, in a review of the literature on Australian federalism, Galligan and Walsh (1990, p. 3) have referred scathingly to 'the relatively few Australian economists who care about federalism'. Similarly, Peter Groenewegen (1979, p. 51) has drawn attention to the 'lack of interest in the federal system in the 1950s and 1960s' as a 'fact of academic life' with 'little or no research carried out in the universities in this period'. Moreover, in the preface to their edited volume entitled *The Development of Australian Fiscal Federalism*, Wilfred Prest and Russell Mathews (1980, p. xi) pointedly pay tribute to the 'small band of academic economists' who contributed to the evolution of Australian federalism, especially L.F. Giblin and R.C. Mills.

This is not to suggest that Australian economists have not made significant contributions to both the development of federal institutions in Australia and our understanding of the operation of Australian federalism. Russell Mathews, the founding Director of the now defunct Centre for Research on Federal Financial Relations in 1972 and first Chairman of the Australian Council for Intergovernmental Relations in 1976, is without doubt Australia's pre-eminent scholar of fiscal federalism. Together with Robert Jay, in 1972 he co-authored *Federal Finance: Inter governmental Relations in Australia since Federation*, the first major study of Australian fiscal

federalism, covering the period from federation until the end of the McMahon government. A companion volume entitled *The Public Sector in Jeopardy* (1997), written with Bhajan Grewal, deals with the period beginning with the Whitlam administration until the end of the Keating era. Together these two texts thus provide a continuous analysis of Australian fiscal federalism from 1901 to 1996 and constitute an invaluable resource for economists interested in inter-governmental financial inter-relationships in Australia. Mathews also made numerous other contributions to Australian fiscal federalism (see Grewal 2000) and was honoured *inter alia* by a *Festschrift* entitled *Taxation and Fiscal Federalism: Essays in Honour of Russell Mathews* (Brennan, Grewal and Groenewegen 1988) containing papers by leading international public finance scholars.

In the modern era, several other Australian economists have made significant contributions to our understanding of fiscal federalism. Quite apart from his co-authorship of *The Public Sector in Jeopardy*, Grewal has written extensively on the topic. Similarly, Cliff Walsh has added substantially to the debate, especially on impact of the federal financial system on urbanisation. In his textbook, *Public Finance in Australia* (1990), and additional writings, Groenewegen has contributed much and set out an alternative view to the prevailing conventional wisdom. Christine Fletcher, Norm Thomson, and others have further enhanced our knowledge of Australian fiscal federalism.¹ At the theoretical level, Geoffrey Brennan is a major international figure with his public choice perspective on federalism in the co-authored *The Power to Tax* (1980) and related work. Together with Brennan, Jonathan Pincus has also made important theoretical contributions.²

In common with many other federal systems of governance, Australian federalism has been dominated by two major characteristics (Ter-Minassian 1997). Firstly, the assignment of expenditure functions and revenue-raising capacities in the Australian Constitution, and its subsequent interpretation, have resulted in severe vertical fiscal imbalance consequent upon the fact that the Commonwealth government collects funds in excess of its expenditure needs whereas state and local governments are unable to finance their activities. In principle, vertical fiscal imbalance can be remedied in four main ways. Expenditure responsibilities can be transferred between the different tiers of government, taxation powers can be reallocated, inter-governmental grants can be introduced to redistribute funds, and institutionalised revenue-sharing arrangements can be developed. Since federation in 1901 all of these methods have been employed in Australia.

Secondly, the phenomenon of horizontal fiscal imbalance is evident at both the state and local government levels, since these governments differ in both their revenue-raising abilities and the costs of delivering service arrangements. In Australia, the problem of horizontal fiscal imbalance was initially addressed by special grants to financially distressed state and local governments and from 1933 onwards through equalisation procedures administered by the Commonwealth Grants Commission (CGC), which sought to adjust revenue relativities in federal government transfers and determine specific purpose payments.

Given the growing magnitude and chronic nature of fiscal imbalance in the Australian federation, it is not surprising that debate amongst economists during the twentieth century focussed on the best methods of dealing with this difficult question. Indeed, it is hardly remarkable that Australian economists directed their efforts at the problems engendered by the assignation of fiscal functions in the Australian federation, since in microcosm this is a theme as old as federalism itself. Mathews and Grewal 1997, p. 767) have identified a key feature of the ongoing debate on Australian fiscal federalism when they lament that ‘...the imbalance in Australia is extreme, judged by either what is appropriate for these purposes or the degree of imbalance in all other economically advanced countries’.

It seems reasonable to describe the century-old debate on Australian federalism in general, and Australian fiscal federalism in particular, as echoing the controversial deliberations conducted during the design of the United States Constitution in the eighteenth century. Inman and Rubinfeldt (1997, p. 73) have spelt out the universality of the American dilemma as follows:

The framing in 1787 of the United States Constitution marked the beginning of the contemporary debate, pitting Montesquieu’s ideal of a decentralised ‘confederate’ republic composed of sovereign city-states against the vision of Madison and the other Federalists of a ‘compound’ republic with an overarching central government responsibility to the union’s common citizenry. The tension between the confederate model of independent city-states each with an effective veto, over central government actions and the compound model of a central government

capable of acting against local interests remains at the centre of today's debates over the design of federalist constitutions.

A second, if somewhat subliminal, theme can also be detected in the debates over Australian fiscal federalism, especially since the Second World War. Groenewegen (1979, p. 67) has highlighted this theme in the post-seventies period by observing that 'it should be pointed out that behind most of these changes in federalism in the 1970s lie different attitudes to the role and the size of the public sector, and to the use of public expenditure in the solution of social problems'.

Various approaches to a long-run analysis of vertical fiscal imbalance in Australia seem feasible. For example, it is possible to describe the changing historical dimensions of vertical fiscal imbalance and then attempt to gauge the impact of these 'external events' on the perceptions of Australian economists. Following this procedure, we can, in principle at least, try to determine how the course of Australian fiscal history might have influenced what academic or policy economists made of the 'problem' of vertical fiscal imbalance and how it might be 'solved'. Alternatively, we can examine the evolution of economic doctrines on the nature of fiscal federalism and seek to ascertain how these affected the manner in which Australian economists sought to conceptualise the 'dilemmas' posed by vertical fiscal imbalance and construct 'solutions' to it.

In this chapter, we shall adopt the latter perspective, and attempt to show that the development of economic doctrine on fiscal federalism has had a pronounced impact on the way in which Australian economists have tackled the question of vertical fiscal imbalance in the Australian federation over the past century in the one hundred years since federation in 1901 to 2002.. We will argue *inter alia* that Australian perceptions of vertical fiscal imbalance have echoed mainstream thought in Anglo-American economic discourse. Thus early concerns by Australian economists over the growing degree of vertical fiscal imbalance in the aftermath of federation seem to reflect the more general pragmatic public finance concerns over prudent fiscal management, as well as long-standing anxieties over political autonomy and the powers of taxation which can be traced back to antiquity. Moreover, the dominant view of vertical fiscal imbalance as a

problem requiring urgent attention, associated in Australia with Mathews and his followers, seems to have emerged in concert with the development of the modern economic theory of federalism, which has been elaborated in detail by Wallace Oates (1972). At the same time, dissident international economic opinion seems also to have had its voice in Australian economics in the person of Groenewegen, who argued that, far from vertical fiscal imbalance representing a problem in the Australian milieu, it in fact expressed a rational institutional response to Australian circumstances (Dollery 2002).

The present chapter is thus concerned with the way in which Australian economists have conceived of vertical fiscal imbalance as a consequence of the interplay of received economic doctrine and the historical evolution of actual vertical fiscal imbalance in Australia. The chapter itself is divided into five main parts. Section 2 briefly deals with definitional issues in the economic analysis of federalism. Section 3 provides a synoptic review of the development of economic doctrine on fiscal federalism and vertical fiscal imbalance. The historical emergence of vertical fiscal imbalance in Australia is discussed in section 4, together with the evolving views of Australian economists on this phenomenon. Section 5 seeks to place Australian vertical imbalance in international perspective. The chapter ends with a summary of the main arguments in section 6.

2 The Meaning of Fiscal Federalism

As a constitutional and political arrangement federalism is notoriously difficult to define with any degree of precision. Preston King (1982, p. 19) has only been able to classify 'the doctrine of federalism' as one of seven 'basic varieties of pluralism', which itself has numerous 'variations'. Other writers are even less sanguine about establishing any rigorous definition of the term. For instance, Beer (1977, p. 21) despairingly observes that 'three hundred years of discussion of the topic have produced a multiplicity of meanings - so many indeed that one authority (Earle 1964) can subtitle a book on federalism *Infinite Variety in Theory and Practice*.

Fortunately, in their investigations of federal solutions to Richard Musgrave's (1959) allocative, distributive and stabilisation problems posed by economic and political

decentralisation, economists have never felt constrained by the constitutional and institutional difficulties involved in defining federalism and have simply proceeded to contrast ‘centralised’ with ‘decentralised’ or federal solutions to these problems. Indeed, in this sense virtually all countries can be said to be federal in character in so far as resource allocation occurs at more than one tier of government. Wallace Oates (1977, p. 4) has explicitly recognised this proposition and argued that ‘the term federalism for the economist is not to be understood in a narrow constitutional sense’, since ‘in economic terms, all government systems are more or less federal’ and differ only ‘along some multi-dimensional spectrum in the degree to which fiscal decision-making is decentralised’. Australian economists have typically also adopted this instrumentalist perspective in their analyses of Australian fiscal federalism over the past one hundred years.

In the present context, it is worth noting that this functional definition of fiscal federalism allows us to view the phenomenon of vertical fiscal imbalance as generic to all forms of democratic government that embody a division of powers, regardless of whether they are federated or unitary states. It follows that the possibility of vertical fiscal imbalance is thus not a valid criticism of federalism *per se* as a means of organising government. As Albert Breton (1996, p. 199) has argued, ‘vertical fiscal imbalance is, therefore, not a reflection of a constitutionally entrenched division of powers that is too costly to change, either because of the rigidities in the amending formula or because of a lack of sufficient consent among decision-makers’, since in unitary states these powers are necessarily vested in central governments and still coincide with vertical fiscal imbalance.

3 Theoretical Perspectives

The constitutional arrangements of Australia, the United States and other longstanding federal countries were designed well before the advent of modern public finance and its recently established doctrine on fiscal federalism. In any event, real-world constitutional development typically owes little to abstract economic reasoning and much to the *Realpolitik* concerns of constitutional designers (Musgrave and Musgrave 1973). In general, prior to World War II, most economists interested in questions of inter-governmental finance were largely concerned with practical issues surrounding ‘sound’ finance and the fiscal viability of sub-national governments

rather than in the development and refinement of the principles of fiscal federalism (King 1984). As we shall see, this pragmatic policy-orientated approach was echoed in the views of Australian economists on the growing magnitude of vertical fiscal imbalance in the Australian federation.

The development of a formal theory of fiscal federalism had to await the aftermath of World War II and the increasing 'professionalisation' of economics as a discipline. Since then the notion that a decentralisation of spending responsibilities can generate substantial welfare gains has won broad consensus in the economic literature (see, for example, Tiebout 1961, Musgrave 1969 and Oates 1972), at least in terms of the allocative functions of government. The theoretical apparatus of fiscal federalism constructed by Oates (1972) hinged on the now famous 'correspondence principle' which holds that 'the jurisdiction that determines the level of provision of the public good includes precisely the set of individuals who consume the good' so as to 'internalize the benefits from the provision of each good' (Oates 1972, p. 34). Accordingly, each public good (or, more generally, each function of government) should be provided by the smallest (i.e., lowest) level of government consistent with no spatial spill-overs into adjacent administrative regions. The concept of a benefit region is thus crucial to the assignment of functions in a federal system. Almost all public goods have limited geographical areas in which they confer benefits on citizens. Some governmental functions are such that the incidence of their benefits is nationwide (like national defence or monetary policy) whereas others are geographically limited (as in the case of fire brigades or street lighting). If the spatial benefit area is limited, then obviously the benefits of some public good will be confined to residents of that area. Moreover, if the costs of provision of the public good are also met by these residents and would be the same for any level of government, then economic efficiency will be attained when this good is provided by the lowest possible level of government (Oates 1972, pp. 35, 54-63).

Oates (1972, p. 13) himself identified three 'economically desirable characteristics' of a decentralised public sector. Firstly, multiple jurisdictions are likely to be more responsive to spatial variations in the demand for public goods. Secondly, competition between different jurisdictions and the potential mobility of citizens along the lines envisaged by Tiebout (1956) should enhance both static productive efficiency and long-term dynamic efficiency. Finally, a system of decentralised governments may promote 'better public decision-making by compelling a more explicit recognition of the costs of public programs' (Oates 1972, p. 13).

Despite its emphasis on the advantages flowing from decentralised government, the economic literature also stresses the costs attendant upon decentralisation, especially in terms of distributional equity and macroeconomic stability (see, for instance, Tanzi 1996). Even for the allocative functions of government, powerful arguments also exist against the decentralisation. For example, several authors have advanced Tiebout-style 'logic of competitive federalism' arguments. Thus it has been claimed that tax exporting, or shifting some of the burden of local taxes onto non-residents, results from decentralised government. Where inter-governmental grants augment the revenues of subnational governments in proportion to their own tax-raising efforts, the problem of tax shifting will be compounded, since a jurisdiction's total revenues will be further artificially inflated. Similarly, from a competitive federalism perspective, 'beggar-thy-neighbour' policies, in the form of tax rebates, low cost land, etc., often deployed to attract (or retain) firms to specific jurisdictions, can lower aggregate revenues and terminate in sub-optimal levels of service provision (Breton 1996).

Other economists have developed public choice arguments against decentralisation. For instance, fiscal illusion amongst local government voters may result in excessive expenditure. King (1984, p. 25) has observed that 'there is the possibility that over-provision would occur if taxes levied by sub-central authorities were not perceptible to citizens, because they might then underestimate the costs of service provision'. Similar arguments invoking a median voter model also stress the dangers of excessive expenditure. For example, some writers maintain that, where revenues depend on taxes with a limited demographic incidence, attempts to woo median voters can mean excessive expenditure by local governments since these citizens only bear a small fraction of the cost of public expenditure (Boyne 1998). Alternatively, rapidly populating jurisdictions, or those with a highly mobile population, might well resort to debt financing and an attendant over-provision of services, since current voters know they will bear relatively few future costs. Other public choice arguments focus on the phenomenon of 'bureaucratic failure' (Boyne 1998).

Various other arguments have been advanced against the decentralised governance. For instance, numerous commentators have claimed that sub-national governments cannot reap the full benefits of economies of scale and economies of scope in the delivery of many services, although this remains hotly contested terrain (Boyne 1998). Peacock (1977) has argued that lower-tier governments might sometimes provide services, and especially new services, relatively inefficiently due to inexperience or lack of 'learning by doing'. Others have argued that local authorities will ignore positive externalities to non-residents and consequently under-provide

local public goods (King 1984). An additional and somewhat more general argument for centralised provision of services may be found in the administrative costs of decentralised provision. For example, in real-world federations, sub-national governments usually differ in their revenue-raising capacities, and administratively expensive systems of equalising intergovernmental grants become necessary.

Since central governments typically collect most major sources of revenue in multi-tiered governance systems, vertical fiscal imbalance characterises almost all real-world federations. This has necessitated inter-governmental financial flows from central to lower levels of government. Economic literature has focussed on three aspects of vertical fiscal imbalance. Firstly, scholars have examined the distortions in expenditure patterns by recipient jurisdictions (see, for example, Scott 1952). A second strand has examined the excessive expenditure that may flow from the bifurcation of expenditure and revenue-raising decisions (see, for instance, Hicks 1978). Finally, economists have analysed the way in which monetary flows to lower levels of government have fostered fiscal illusion and bureaucratic manipulation (see, for example, Courant, Gramlich and Rubinfeld 1979).

An interesting countervailing theory exists which shows that the specialisation of various functions at different levels of government can minimise production, coordination and contractual enforcement costs in a multi-tiered system of governance through vertical and horizontal inter-governmental competition (see Breton 1996, pp. 203-27). According to this view, different governments in a federation specialise in the production and provision of certain goods and services. Specialisation necessarily requires inter-governmental coordination based on implicit and incomplete contracts which cannot be enforced by third parties. For example, some kinds of tax collection, like motor vehicle registration duties, may exhibit large economies of scale and high coordination costs and thus lead to a lower degree of concentration than would otherwise be the case for cost minimisation. This kind of tax would therefore be most efficiently collected by several lower-tier governments. Alternatively, income taxes may be characterised by substantial economies of scale and low coordination costs and thus generate a high degree of concentration in their collection. This could explain why these taxes are typically collected by the central government in a federal system. It follows that vertical fiscal imbalance may thus represent an optimal method of capturing the comparative advantages at tax collection and expenditure of different levels of government in a federation. As we shall see, this dissenting view on vertical fiscal imbalance has an articulate Australian exponent in the person of Peter Groenewegen.

4. The Evolution of Vertical Fiscal Imbalance

The Constitution of the Commonwealth of Australia came into force on 1 January 1901 after a decade of intense effort, and brought six self-governing British colonies into union. In essence, the founders of the Australian federation followed the American model by enumerating a relatively limited list of federal exclusive powers, together with a considerable number of concurrent powers, leaving various unspecified residual powers to state governments (Watts 1999). The Commonwealth government was given sole responsibility for activities in the international arena, like defence, trade, and immigration, while the states controlled important public services, such as education, health, and law and order. At the time, it was generally anticipated that the Constitution would guarantee the financial independence of the states from the Commonwealth government. This belief was soon shattered.

In any analysis of economic and social trends of the long term, the thorny question of periodisation inevitably arises. In common with other countries, many areas of Australian history cannot be readily reduced to finite stages, and periodisation is necessarily arbitrary. For example, in their standard economic history of Australia, Dyster and Meredith (1990) employ a four-stage structure, without offering any justification: pre-1914, 1914 to 1941, 1942 to 1959 and post-1960. However, because fiscal federalism is so closely linked to legislative changes that regulate taxation and expenditure changes, the problems posed by periodisation are much less severe. In the present context, the chronological divisions developed by Mathews and Jay (1972) and Mathews and Grewal (1997) are broadly followed, since they are based largely on different legislative regimes.³

The Period 1901 to 1909

Under the new Constitution, the states had surrendered their main source of revenue, which lay in customs duties. However, under section 87 (the 'Braddon Clause') the Commonwealth was obliged to return three-quarters of these funds to the states without any obligations on their expenditure. Moreover, sections 89, 93 and 94 of the Constitution provided that all 'surplus' revenue not required by the Commonwealth government be returned to the states for a specified period of ten years and thereafter at the behest of the Commonwealth Parliament. This system was followed in the six financial years from 1901/02 to 1906/07, despite growing opposition in

the Commonwealth Parliament since it could not fund other schemes, notably social security. Under these arrangements, the states received 93 per cent of total revenue in 1901/02 (CGC 1995, p. 5). Negotiations on a satisfactory method of replacing the Braddon Clause took place over the period 1906 to 1909.

The Period 1910 to 1918/19

After an initial High Court challenge, the Revenue Surplus Act 1908 (amended in 1910) came into being, which abolished payments of 'surplus' funds to the states. In a survey of developments after the first 25 years of federalism, Professor Giblin (1926, p. 48) of Melbourne University was able to comment that 'after the first ten years, the control of revenue from customs and excise was left absolutely in the hands of the federal Parliament'. A system of equal per capita payments from the Commonwealth to the states was introduced in its place under the Revenue Surplus Act 1910, which endured until 1927. In 1915 the Commonwealth government introduced personal income tax (as well as a tax on undistributed company profits), which meant that, under concurrent taxation powers, individuals were now obliged to pay both Commonwealth and state income taxes, since state income taxes had already existed prior to federation. The effect of the new arrangements on intergovernmental financial relationships was substantial: over the period 1909/10 to 1918/19 total government revenue had more than doubled, but the proportion accruing to the states had fallen to 55 per cent (CGC 1995, p. 6). Mathews and Jay (1972, p. 86) note that 'the expenditure of the states was much larger than that of the Commonwealth during the first decade, but declined from 9.9 per cent of gross national product in 1909/10 to 8.7 per cent in 1918/19', predominantly due to the impact of World War I.

The Period 1919/20 to 1932/33

The system of equal per capita payments, supplemented by special grants to compensate Western Australia and Tasmania for their high contribution to customs revenue, continued during the 'twenties, despite growing opposition from the states, especially the less populous South Australia, Tasmania and Western Australia. With the end of the Great War, 'Commonwealth expenditures had dropped from 16.6 per cent of gross national product in 1918/19 to only 6.3 per cent in 1928/29, while the corresponding figures for the states rose from 8.7 per cent to 11.8 per cent of the states over the same period' (Mathews and Jay 1972, p. 101). However, this trend was not matched from a revenue perspective, mainly because the Commonwealth had to repay massive war loans. Whereas state taxes increased from 2.2 per cent of national income in 1918/19 to 3.8 per cent in 1928/29, Commonwealth receipts had risen from 5.9 per cent to 11.6 per cent

(Mathews and Jay 1972, p. 103). The problems posed by concurrent taxation represented the major challenge to policy makers in the decade following the war. Smith (1993, p. 46) has summarised the dilemma as follows: 'For the Australian states, the significance of the first world war lay in the federal invasion of direct taxation. Seven different governments taxing income, land and deceased estates set the scene for extended tax conflict between the two tiers of government'. In 1927 a Financial Agreement was struck between the states and the Commonwealth government which replaced the equal per capita grants system with an annual payment to the states as a contribution towards interest on state debt. In addition, the Australian Loan Council was established for the purpose of coordinating Commonwealth and state borrowing. It was now clear that the Commonwealth government represented the financially dominant partner in the Australian federation. Moreover, the principle of special grants from the Commonwealth government to less populous states had become well established. However, the method of determining the magnitudes of these grants remained politically contentious.

Although the states were largely still self-financed, the problem of vertical fiscal imbalance between the Commonwealth and the states was nevertheless evident to informed commentators. At the time, and in common with the pragmatic pre-fiscal federalism ethos then prevalent in economics, Professor R.C. Mills (1928, p. 73) of Sydney University observed that 'the states find it increasingly difficult to meet their political responsibilities from the fields of taxation which they now share with the Commonwealth, whilst the Commonwealth finds it necessary to explore new fields of expenditure in order to dispose of superabundant revenue'.

The Period 1933/34 to 1941/42

A series of state government inquiries, a Royal Commission on the Constitution of the Commonwealth, Giblin's (1926) suggestion for a specific Commonwealth board to oversee payments, and a large majority in favour of secession in the 1933 Western Australia referendum, all served to precipitate the passage of the Commonwealth Grants Commission Bill in 1933 that established the CGC. Under the claimancy system established in terms of the CGC, the premise was determined that 'it was the obligation of the Commonwealth to make it financially possible for any state to give its people a standard of service approximately equal to that of other states, without being forced to tax more severely than the average of other states' (Giblin 1949, p. 93). This principle has been maintained in a variety of institutional forms to the present day.

The early work of the CGC was subject to much criticism. For instance, Fisher (1936, p. 215) argued that, whereas the CGC had determined a sound conceptual basis for the size of grants, it had been much less successful in setting 'a normal standard by comparison with which the positions of claimant states can be measured' as well as in solving 'the problem of devising reliable measuring rods for making the necessary comparison'.

The Period 1942/43 to 1946/47

The 1975/76 Commonwealth Government *Budget Paper No. 7* (p. 2) provides a succinct description of fiscal inter-relationships between the federal and state governments before World War II: 'Since federation payments of various descriptions have been made to the states. Prior to World War II, these payments were mainly of a marginal character and were confined, for the most part, to special grants to assist financially weaker states, and to certain specific purpose grants such as assistance for roads and for debt charges'. From the watershed year of 1942 onwards, Commonwealth transfers to states increased sharply. Various factors can account for this increase, not least a Wagner's Law effect on the scope of services provided by state governments and the crucial introduction of a single 'uniform' income tax system by the Commonwealth government.

Under the uniform taxation legislation passed by the Commonwealth Parliament in May 1942, the Commonwealth government assumed sole power to impose taxes on income for the period of the duration of World War II, plus one additional year. In terms of this legislation the states were compensated on the basis of average tax revenue of the preceding two years. At a 1946 Premiers' Conference, Prime Minister Chifley indicated that the Commonwealth government intended to continue with the uniform income tax system indefinitely. The legislation survived various subsequent High Court challenges and remains in place to the present day.

The Period 1947/8 to 1958/59

The effects of the uniform taxation scheme were profound. By the fiscal year 1948/49, the Commonwealth was collecting 88 per cent of all taxes levied in Australia, compared to 8 per cent by the states and 4 per cent by local governments (Mathews and Jay 1972, p. 191). Referring to the sea change in fiscal interrelationships in the Australian federation, Mathews and Jay (1972) observe that 'not only had the Commonwealth government, with its vast war-time powers, become used to taking unilateral action with respect to decisions affecting the prosecution and financing of the war, the control of the war-time economy and the arrangements for post-war

reconstruction; its assumption of uniform income tax powers had given it the fiscal supremacy to pursue the centripetal policies...’.

A second important reason for the enormous vertical fiscal imbalance that emerged in the immediate post-War period resides in Commonwealth domination of the Loan Council. Hunter (1977, p. 55) has argued that from this time onwards Commonwealth restrictions on state borrowing ‘...have forced the states into a position of subservience and increasing reliance on *ad hoc* federal assistance’. It seems clear that he is invoking the conventional wisdom of the theory of fiscal federalism in this analysis.

In the period up to 1958, numerous methods of determining both the magnitude of Commonwealth transfers to the states and its distribution between them were deployed. However, as a result of this process net transfers increased and a slow trend towards equalisation of transfer funding to states was set in train.

The Period 1959/60 to 1971/72

From the 1950s the problem of vertical fiscal imbalance was addressed by three types of grants (Groenewegen 1979), namely, financial assistance grants (previously called tax reimbursement grants), special grants and specific purpose grants. Moreover, increasing weight was attached to specific purpose grants, which escalated from 23.7 per cent of total payments to the states in 1960/61 to 31.4 per cent in 1971/72 (Hunter 1977, p. 59). Reliance on these conditional grants led to charges that ‘...the states are more and more becoming the administrative spending agencies of the federal government’ (Groenewegen 1979, p. 53).

The Period 1972/3 to 1975/6

The Whitlam government came to power determined to reform Australian federalism on the basis of four main pillars: removing the long-standing Labor Party aim of centralising Australian governance; recognising the importance of the states; promoting local and ensuring regional governments; and Commonwealth government coordination of public service provision (Groenewegen 1979, p. 55). In fact, the Whitlam administration was characterised by a rapid increase in public sector expenditure and a growing reliance on specific purpose grants to the states. Total transfers to the states from the Commonwealth government grew from 8.1 per cent of national product in 1972/3 to 11.2 per cent in

1975/6, with aggregate recurrent and capital grants special purpose expanding from 2.1 per cent to 5.4 per cent over this period (Mathews and Grewal 1997, p. 88). This led to suspicion on the part of the states that their independence was being compromised and led to much political acrimony.

The Period 1976/7 to 1982/3

The advent of the Fraser conservative government brought with it a 'New Federalism Policy' based on fixed personal income tax revenue-sharing arrangements with the states, the right of individual states to place a surcharge or rebate on personal income taxes, reduced reliance on specific purpose grants, and local government assistance. As events transpired, the states never took up the option to vary income taxes, but aggregate specific purpose grants did fall to 4.5 per cent of national income, although this should be viewed within the context of an overall decline in net payments to the states to 9.5 per cent from 11.2 percent at the end of the Whitlam era (Mathews and Grewal 1997, p. 746). Many state governments were obliged to run deficits as a result. Thus, even though the Fraser government was perceived as more committed to decentralised federalism than its Whitlam predecessor, from a financial standpoint state governments were worse off.

The Period 1983/4 to 1995/6

In stark contrast to the Fraser administration, which at least attempted revenue-sharing between the Commonwealth and the states and reduced the earlier reliance on specific purpose grants, both the Hawke and Keating administrations 'used the Commonwealth's fiscal dominance to enhance its political power and its ability to influence state policies' (Mathews and Grewal 1997, p. 529). The approach of these two governments towards fiscal federalism was essentially two-pronged. Firstly, aggregate payments to the states were sharply decreased. For example, by 1994/95 net payments to the states had fallen to 6.7 per cent of national product from 9.5 per cent in 1982/3 (Mathews and Grewal 1997, p. 754). Secondly, specific purpose grants were steadily substituted for general revenue funds over which the states could exert control.

Important institutional changes in federal arrangements also occurred during the period of the Hawke and Keating Labor governments that further undermined the Australian federal system. For example, the Advisory Council for Inter-governmental Relations was dismantled. Similarly, tax-sharing arrangements ceased. However, the Council of Australian Governments was established in 1992 and it has met annually since then to consider policy questions rather than financial issues *per se*.

The Period 1996/7 to 2001/2

In March 1996, a Coalition government was elected to office, and its immediate priorities hinged on reducing the substantial budget deficit it had inherited from its predecessor. Although an increase in financial assistance grants was negotiated at the 1996 Premiers' Conference, these were conditional on the implementation of National Competition Policy by the states. Moreover, it was decided that given 'the fiscal challenge facing the government, the states will contribute to the reduction of the Commonwealth's deficit' (Commonwealth of Australia 1996/97, p. 3) by means of deductions from Commonwealth grants.

But the major development under the Howard government came with the *Inter-governmental Agreement on the Reform of the Commonwealth-State Financial Relations* in April 1999, which formed part of the federal government's comprehensive policy to reform the Australian taxation system by introducing a goods and services tax (GST). In terms of this agreement, the states would receive GST and other revenues from the Commonwealth conditional upon *inter alia* state tax reform. In effect, states would simplify and narrow the range of taxes they collect in exchange for GST funds. Under transitional arrangements no state will be worse off than prior to tax reform (Commonwealth Government 1998/99). The GST came into operation on at the beginning of the fiscal year 2000/01. As a consequence, limited tax reform did occur in many state jurisdictions, but not in New South Wales; the largest state in Australia.

Overview

The question naturally arises as to changes in the degree of vertical fiscal imbalance in Australia over the past century. Although we have seen that the seeds of vertical fiscal imbalance were sown in the Australian Constitution itself (Greenwood 1949), with the Commonwealth government charged with collecting and reimbursing customs duties, it is apparent that fiscal imbalance has grown more acute in the intervening years, especially after 1942. Definitional and

data difficulties make any precise time-series estimate of the trends in vertical fiscal imbalance exceedingly difficult. However, calculations by Mathews and Grewal (1997) do provide a useful guide to historical developments. Using three conventional measures of actual revenues and expenditures, Mathews and Grewal (1997, Table 14.5) have demonstrated that they uniformly indicate a sharp deterioration in vertical fiscal imbalance for both the central and state governments after 1942. If relative measures are employed, which use the concept of taxable capacity based on the application of a standardised tax rate to the revenue base for that tax, then an even greater degree of vertical fiscal imbalance is evident after 1942 (Mathews and Jay 1997, Table 14.6).

Notwithstanding definitional and data problems, it should be noted that these measures of vertical fiscal imbalance may also be unsatisfactory in a conceptual sense. Any comparison of trends in revenue and expenditure magnitudes, and the resultant need for inter-governmental transfers, established neither evidence for nor against ‘fiscal need’ on the part of state governments. In this sense, where the magnitude of inter-governmental transfers is simply taken to indicate the degree of vertical fiscal imbalance, without reference to ‘external events’, we may have a tautological definition of vertical fiscal imbalance.

The pivotal position of the uniform taxation legislation passed by the Commonwealth Parliament in May 1942 can be further illustrated by an examination of the composition of state taxation revenue in Table 1.

Table 1: Composition of State Taxation Revenue

	Income taxes %	Payroll taxes %	Land taxes %	Estate taxes %	Stamp duties %	Gambling taxes %	Motor vehicle taxes %	Other taxes %	Total
1901-02	27.8	..	21.9	..	29.8	20.8	n. a	n. a	100.0
1908-09	32.3	..	10.0	26.0	22.1	n. a	n. a	9.7	100.0
1919-19	51.2	..	9.9	15.2	15.8	n. a	n. a	8.1	100.0
1928-29	49.2	..	5.8	12.0	12.3	3.3	13.0	4.3	100.0
1938-39	59.0	..	2.8	9.9	6.9	3.5	13.8	4.1	100.0
1948-49	0.7	..	3.5	27.7	18.8	12.9	28.2	8.2	100.0
1958-59	11.2	19.7	20.5	8.6	30.4	9.5	100.0
1968-69	9.5	17.1	26.2	13.6	28.0	5.5	100.0

1978-79	..	37.2	5.8	4.3	16.9	10.1	16.3	9.4	100.0
1988-89	..	27.0	5.5	..	29.4	9.0	12.3	16.7	100.0
1998-99	..	23.2	5.4	..	17.6	12.4	11.3	30.5	100.0

(a) Data up to 1988/89 are on a cash basis, but for 1998/99 they are on an accrual basis, resulting in a break in series.

Source: *Year Book Australia* (2001, p. 940, Table 27.21).

The revolutionary change in the sources of state revenue from 1942 onwards is clear from Table 1, with states forced to rely on indirect taxes and, especially after 1978/79, on payroll taxes.

5 Australian Federalism in International Perspective

In comparison with the fiscal federalism in advanced economies, the Australian federation is characterised by a substantial vertical fiscal imbalance between revenue and expenditure at the national and sub-national levels of governance. Whereas the Commonwealth government raises about 70 per cent of total public sector revenue, it accounts for only around half of all public expenditure (Craig 1997, p. 175). The financial problems raised by this vertical fiscal imbalance are addressed in two main ways. Firstly, a complex system of inter-governmental grants and accompanying institutional arrangements transfers funds from the Commonwealth government to state and local governments. Secondly, state, territory and local governments can borrow monies for specified purposes, subject to Commonwealth government guidelines.

Some idea of the relative degree of vertical fiscal imbalance is provided in Table 2, where 'vertical current balances' refers to the ratio of 'own source' revenues by level of government to 'own source' current expenditures.

Table 2: Vertical Current Imbalances¹

Level of Government									
	Central			State or Regional			Local		
	Overall Balance	Current Balance	Capital Balance	Overall Balance	Current Balance	Capital Balance	Overall Balance	Current Balance	Capital Balance
Australia	1.45	1.48	18.56	0.53	0.59	-2.77	0.83	1.05	0.44
Canada	1.05	1.08	5.33	0.88	0.93	-1.47	0.53	0.60	-3.57

Germany	1.03	1.08	1.48	0.96	1.09	0.73	0.75	0.94	-0.08
United States	0.93	0.97	-0.40	1.24	1.41	2.94	0.66	0.75	-2.05

¹The data show average ratios over selected periods for each country. The periods chosen are: Australia, 1987-91; Canada, 1985-89 (excluding 1987 for capital balance); Germany, 1983-91; and United States, 1987-97.

Source: Adapted from Ahmad and Craig (1997, Table 1, p. 75).

A perusal of Table 2 shows that, in comparison to Canada, Germany and the United States, Australia suffers from an acute degree of vertical fiscal imbalance at the federal and state levels, but not in local governance.

Ahmad and Craig (1997) have identified three basic approaches to the general problem of fiscal imbalance in a federal system. Firstly, 'the vertical imbalance at each level is resolved by tax-sharing or grant arrangements' (p. 76) and then horizontal transfers are made from rich to poor regions, a system employed in Germany. Secondly, countries can attempt to correct for vertical fiscal imbalance and simply ignore horizontal imbalance, as in the case of the United States. Finally, 'the vertical and horizontal imbalances are dealt with simultaneously through a system of grants, including equalisation payments and special purpose grants' which is the method used in Australia and Canada. Since the extent of vertical current imbalances in Table 2 does not appear to vary systematically with the method employed to deal with vertical fiscal imbalance, it would not appear that the system *per se* can adequately account for the high degree of vertical fiscal imbalance in Australia.

6 Concluding Remarks

In our earlier review of the evolution of economic doctrine on fiscal federalism and the question of vertical fiscal imbalance, we saw that contemporary writing emphasised the distortions in expenditure patterns, excessive public expenditure and fiscal illusion as potential outcomes of vertical imbalance. An acerbic commentator has summarised the normative implications of this literature by observing that it would appear that central governments have 'wilfully created inter-jurisdictional spill-overs that demand inter-governmental transfers that cause vertical imbalance and, one should no doubt add, that foster distortions, irresponsibility, illusion, and manipulation' (Breton 1996, p. 200).

In the specifically Australian literature on fiscal federalism, vertical fiscal imbalance and the concomitant existence of inter-governmental grants have been repeatedly identified as the root cause of the worst features of Australian federalism. Australian economists like Fisher, Giblin and Mills, writing in the days before the orthodoxy of the theory of fiscal federalism, all emphasised the growing political power of the Commonwealth *vis-a-vis* the state governments' attendant upon vertical fiscal imbalance. In this respect, they were products of their time and adopted the 'pragmatic' view of fiscal federal relations then ascendant in Anglo-American mainstream economics.

So, too, later commentators clearly reflect the economic orthodoxy of their own time. For example, Mathews (1982, p. 15) has argued that 'the Australian fiscal system which has evolved since World War II may then be seen as one which maximises the amount of political noise and minimises the degree of electoral accountability, financial responsibility, economic efficiency and effective public choice'. Similarly, Walsh (1988) has maintained that vertical imbalance in Australian federalism encourages 'grant seeking' that engenders the wasteful deployment of scarce state resources in competing for limited federal grants. Other commentators, like the authors of the Collins Report (1988), have argued that vertical fiscal imbalance has encouraged the levying of a myriad of economically inefficient and regressive taxes by financially straitened state governments. The Officers Report (1987) identified the problem of tax evasion and avoidance of state taxes as pervasive. Moreover, Gramlich (1984), amongst others, has argued that the compliance and administrative costs associated with state taxes are inordinately high relative to the revenue collected. The pervasive influence of the orthodoxy of the theory of fiscal federalism seems clearly evident in these views of Australian economists.

Without wishing to deprecate the adverse effects of vertical fiscal imbalance in Australian federalism, it is possible to identify some Australian commentators who have eschewed the prevailing fiscal federalism orthodoxy and articulated the potentially positive attributes of Australian fiscal federalism. Although there appears to be no textual evidence of his direct influence on dissident Australian economists, the Canadian

economist Albert Breton's (1996) theoretical views on vertical fiscal imbalance seem to have at least some Australian counterparts. In essence, Breton (1996, p. 213) argued that under constant returns to scale 'high coordination costs call for high concentration', so that the concentration of revenue-raising powers at the level of the central government can be economically rational in the sense that the coordination costs of tax collection may be minimised. An analogous line of reasoning has been developed by Groenewegen for Australian federalism. Arguing that the received theory of fiscal federalism is simply 'a theoretical rationale for the system that exists' in the United States and that 'tax decentralisation the result of the particular historical framework' of American federalism, Groenewegen presents an alternative conception of the efficiency of fiscal arrangements in Australia (Dollery 2002, p. 24). Groenewegen contends that administrative efficiency in administering income (and some other) taxation is maximised by Commonwealth control and distribution to the states. The historical evolution of Australian fiscal federal arrangements can thus be said to reflect rational economic motives.

Notwithstanding the conceptual elegance of the dominant theory of fiscal federalism, arguments like those proposed by Groenewegen have undoubted force. Given the predominance of political and historical considerations in the development of real-world constitutions, it is hardly surprising that the Australian Constitution (and those of most other federal systems) do not replicate the theoretical niceties of normative fiscal federalism (Inman and Rubinfeld 1997). Moreover, in the final analysis, despite their financial reliance on the Commonwealth, existing state governments 'enjoy firmly entrenched legal powers and constitutional safeguards', 'retain their distinctive status as separate governments', maintain 'the political loyalties of their electorates' and 'embody distinctive institutional traditions' (Painter 2001, p. 138). Accordingly, notwithstanding growing vertical fiscal imbalance over the first century of the Commonwealth of Australia, Australian federalism retains much of its vibrancy.

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Notes

1 See, for instance, Fletcher (1992) and Thomson (1976). This list is by no means complete and does not include some important contributors, like Hunter (1977) and Smith (1993), amongst others.

2 See, for example, Brennan and Pincus (1990).

3 Detailed chronologies of taxation and expenditure in Australian federalism can be found in Smith (1993) and Smith (1992) respectively.

References

Abroad, E. and Craig, J. (1997) 'Inter-governmental transfers', in T. Ter-Minassian (ed.) (1997), *Fiscal Federalism in Theory and Practice*, Washington: International Monetary Fund, pp. 73-107.

Beer, S. (1977) 'A political scientist's view of fiscal federalism', in W.E. Oates (ed.), *The Political Economy of Fiscal Federalism*, Toronto: Lexington Books, pp. 21-46.

Boyne, G.A. (1998) *Public Choice Theory and Local Government*, Basingstoke: Macmillan.

Brennan, G. and Buchanan, J.M. (1980) *The Power to Tax: Analytical Foundations of a Fiscal Constitution*, New York: Cambridge University Press.

Brennan, G., Grewal, B. and Groenewegen, P.D. (eds) (1988) *Taxation and Fiscal Federalism: Essays in Honour of Russell Mathews*, Canberra: Australian National University Press.

Brennan, G. and Pincus, J. (1990) 'An implicit contract theory of inter-governmental grants', *Publius: The Journal of Federalism*, 20(4), pp. 129-44.

Breton, A. (1996) *Competitive Governments. An Economic Theory of Politics and Public Finance*, Toronto: Cambridge University Press.

Collins Report/NSW Tax Task Force (1988) *Review of the State Tax System*, Sydney: NSW Government Printer.

Commonwealth Government (1975/76) *Payments To or For the States and Local Government Authorities*, Budget Paper No. 7, Canberra: Australian Government Printing Service.

Commonwealth Government (1996/97) *Commonwealth Financial Relations with Other Levels of Government 1996-97*, Budget Paper No. 3, Canberra: Australian Government Printing Service.

Commonwealth Government (1998/99) *Federal Financial Relations 1998-99*, Budget Paper No. 3, Canberra: Australian Government Printing Service.

Commonwealth Government (2001) *Year Book Australia 2001*, Canberra: Australian Government Printing Service.

Commonwealth Grants Commission (1995) *Equality in Diversity: History of the Commonwealth Grants Commission*, second edition, Canberra: Australian Government Printing Service.

- Craig, J. (1997) 'Australia', in T. Ter-Minassian (ed.) (1997), *Fiscal Federalism in Theory and Practice*, Washington: International Monetary Fund, pp. 175-200.
- Dollery, B.E. (2001) 'A conversation with Peter Groenewegen', UNE Working Papers in Economics, Armidale: School of Economics, University of New England, <http://www.une.edu.au/febl/EconStud/publid.htm>.
- Dyster, B. and Meredith, D. (1990) *Australia in the Twentieth Century*, Sydney: Cambridge University Press.
- Earle, V. (ed.) (1964) *Federalism: Infinite Variety in Theory and Practice*, Itasca: Peacock Books.
- Fisher, A.G.B. (1936) 'Grants to States', *Economic Record*, 13, December, pp. 38-57.
- Fletcher, C. (1992) *Competition between Regional Governments and the Federal Culture of Fiscal Equalisation*, Federalism Research Centre Paper No. 20, Canberra: Australian National University.
- Galligan, B. and Walsh, C. (1990), 'Australian federalism: developments and prospects', *Publius: The Journal of Federalism*, 20(4), pp. 1-18.
- Giblin, L.F. (1949) 'Financial aspects of the constitution', in G. Sawyer (ed.), *Federalism in Australia*, Melbourne: Cheshire, pp. 89-108.
- Giblin, L.F. (1926) 'Federation and finance', *Economic Record*, November, pp. 145-60. Reprinted in W. Prest and R.L. Mathews (eds) (1980), *The Development of Australian Fiscal Federalism: Selected Readings*, Canberra: Australian National University Press, pp. 47-62.
- Gramlich, E. (1984) '"A fair go": fiscal federalism', in R. Caves and L. Krause (eds), *The Australian Economy: A View from the North*, Allen and Unwin, pp. 231-75.
- Greenwood, G. (1946) *The Future of Australian Federalism*, Melbourne: Melbourne University Press.
- Grewal, B. (2000) 'Russell Lloyd Mathews: An Appreciation', *Economic Record*, 76(235), pp. 401-11.
- Groenewegen, P.D. (1979) 'Federalism', in A. Patience and B. Head (eds), *From Whitlam to Fraser*, Melbourne: Oxford University Press, pp. 50-69.
- Groenewegen, P.D. (ed.) (1980) *Australian Taxation Policy*, Cheshire: Longman.
- Groenewegen, P.D. (1990) *Public Finance in Australia*, third edition, Sydney: Prentice-Hall.
- Hicks, U.K. (1978) *Federalism: Success or Failure*, London: Macmillan.
- Hunter, J.S.H. (1977) *Federalism and Fiscal Balance: A Comparative Study*, Canberra: Australian National University Press.

- Inman, R.P. and Rubinfeld, D.L. (1997) 'The political economy of federalism', in D.C. Mueller (ed.), *Perspectives on Public Choice: A Handbook*, Cambridge: Cambridge University Press, pp. 73-105.
- King, D. (1984) *Fiscal Tiers: The Economics of Multi-Level Government*, London: Allen and Unwin.
- King, P. (1982) *Federalism and Federation*, Canberra: Croome Helm.
- Mathews, R.L. (1982) *Federalism in Retreat: The Abandonment of Tax Sharing and Fiscal Equalisation*, Canberra: Australian National University Press.
- Mathews, R.L. and Jay, W.R.C. (1972) *Australian Fiscal Federalism from Federation to McMahon*, Melbourne: Thomas Nelson.
- Mathews, R.L. and Grewal, B. (1997) *The Public Sector in Jeopardy: Australian Federalism from Whitlam to Keating*, Melbourne: Victoria University.
- Mills, R.C. (1928) 'The financial relations of the Commonwealth and the states', *Economic Record*, May, pp. 1-18. Reprinted in W. Prest and R.L. Mathews (eds) (1980), *The Development of Australian Fiscal Federalism: Selected Readings*, Canberra: Australian National University Press, pp. 63-76.
- Musgrave, R.A. (1959) *The Theory of Public Finance*, New York: McGraw-Hill.
- Musgrave, R.A. (1969) *Fiscal Systems*, New Haven: Yale University Press.
- Oates, W.E. (1972) *Fiscal Federalism*, New York: Harcourt Brace Jovanovich.
- Oates, W.E. (1979) 'An economist's perspective on fiscal federalism', in W.E. Oates (ed.), *The Political Economy of Fiscal Federalism*, Toronto: Lexington Books, pp. 3-20.
- Officer's Report/Commonwealth and State Treasuries (1987) *The Distribution of Tax Powers Between the Commonwealth and the States*, Canberra: Australian Government Printing Service.
- Painter, M. (2001) 'Multi-level governance and the emergence of collaborative federal institutions in Australia', *Policy and Politics*, 29(2), pp. 137-50.
- Peacock, A.T. (1977) *The Economic Analysis of Government and Related Themes*, Aldershot: Edward Elgar.
- Prest, W. and Mathews, R.L. (eds) (1980) *The Development of Australian Fiscal Federalism*, Canberra: Australian National University Press.
- Scott, D.A. (1952) 'The evaluation of federal grants', *Economica*, 19(2), pp. 377-94.
- Smith, J.P. (1993) *Taxing Popularity: The Story of Taxation in Australia*, Canberra: Australian National University Press.

- Tanzi, V. (1996) 'Fiscal federalism and decentralisation: a review of some efficiency and macroeconomic aspects', *Annual World Bank Conference on Development Economics*, Washington: World Bank, pp. 87-102.
- Ter-Minassian, T. (ed.) (1997) *Fiscal Federalism in Theory and Practice*, Washington: International Monetary Fund.
- Tiebout, C.M. (1961) *An Economic Theory of Fiscal Decentralisation in Public Finance*, Princeton: Princeton University Press.
- Thomson, N. (1976) 'Taxation and the Asprey and Mathews Reports', *Australian Quarterly*, 48(4), pp. 182-95.
- Walsh, C (1988) 'Federalism Australian style', in G. Brennan, B. Grewal and P.D. Groenewegen, (eds) (1988), *Taxation and Fiscal Federalism: Essays in Honour of Russell Mathews*, Canberra: Australian National University Press, pp. 153-78.
- Watts, R.L. (1999) *Comparing Federal Systems*, second edition, Kingston, Ontario: Queen's University.