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Abstract

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Keywords

Action, inaction, Food, nutrition, Australian, local, governments

Disciplines

Arts and Humanities | Life Sciences | Medicine and Health Sciences | Social and Behavioral Sciences

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Action or inaction? Food and nutrition in Australian local governments

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Abstract

Objective: To determine the current level of activity of Australian local governments in twenty-nine food and nutrition action areas and whether the level of activity had changed between 1995 and 2007.

Design: A cross-sectional study utilising a postal survey was undertaken of all local governments in Australia. The same instrument and protocol were used in 1995 and 2007.

Setting: Australian local governments.

Results: Local governments in Australia continue to be engaged in food and nutrition activities. This involvement has constricted in range in the last 12 years but higher levels of engagement are reported for several areas. The levels of involvement of local governments in the different states varied significantly, with Victoria reporting higher levels of involvement in several areas, particularly in food and nutrition activities related to community services. Local governments in New South Wales and Western Australia reported significantly lower levels of involvement in food and nutrition activities. Several factors may have contributed to these differences, including availability of resources and support, mandatory requirements by state governments, different attitudes of General Managers and staff and availability of funds for special projects.

Conclusions: If Australian local governments are to be recognised and supported for their involvements in food and nutrition activities, more in-depth research is required to elucidate the factors that act as barriers or facilitate their on-going involvement in this important area. Support for local governments in rural areas to become or remain engaged in food matters should receive special consideration.

Keywords
Food and nutrition
Local government
Australia
Survey

Local governments have traditionally been involved in activities related to the food and nutrition system. Food safety and trade, land use for agriculture and horticulture, monitoring food retail premises and provision of food to low-income and unemployed communities have been some of the activities of local governments⁽¹⁾. In Australia, the National Food and Nutrition Policy (1992) specifically highlighted the important role local governments play in the food system⁽²⁾. As part of that policy, selected local governments were provided with support to develop local food and nutrition policies, with varying success⁽¹⁾. In North America, food policy councils have been an important local focus for community food issues⁽³⁾. More recently, country-level obesity-related and food insecurity concerns have again focused on the roles of local governments in the food system^(4,5).

Local governments have different roles and responsibilities and also different capacities to undertake food-related activities. In Australia, local governments are an extension of state governments. While they have their own elected members who represent their local communities,

their capacities to take independent actions are constrained and directed by state governments. They do not have extensive power to raise revenues, as land taxes are capped by state legislation, and they are also required to meet certain obligations linked with state distributed-funds⁽⁶⁾. Some of these obligations may enhance their capacity to impact local food systems, such as mandatory requirements to develop Municipal Public Health Plans⁽⁷⁾, while other obligations may limit their capacities to act.

State governments vary in their positions and support for the roles local governments are expected to fulfil in relation to food and nutrition. In the state of Victoria, the Victoria Health Promotion Foundation (VicHealth) has taken an increased interest in the role of local government in supporting food issues, particularly as they relate to food security. Funds have been provided directly to local governments to provide local initiatives. This support is within a broader framework engaging local governments in community-based health initiatives. In the early 1990s, six healthy localities were funded to implement initiatives using the principles of the WHO

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Healthy Cities programme. This action was subsequently extended in 2001 with the mandating of Municipal Public Health Planning based on a social view of health⁽⁸⁾. Broader, state-level food system initiatives have also been a focus in this state and support networks have been established to facilitate on-going food system actions by local governments^(9–12). In New South Wales (NSW), selected local governments have led the way in local food system actions since the early 1990s⁽¹³⁾, with Penrith Food Policy Council⁽¹⁴⁾, South Sydney Food and Nutrition Policy⁽¹⁵⁾ and the Hawkesbury Food Programme⁽¹⁶⁾ being particularly well known. More recently, the NSW Food Authority has developed a partnership with local governments to boost initiatives in the area of food safety⁽¹⁷⁾ and the NSW government has supported eighteen resolutions involving local government action that resulted from a childhood obesity summit in 2002⁽¹⁸⁾. In recent times, Queensland Health has also stimulated local governments to be involved in food activities via their Eatwell initiatives⁽¹⁹⁾.

The impact of this focus on the roles of Australian local governments in nutrition and food-related initiatives is yet to be assessed. Evaluations of individual projects have been published⁽²⁰⁾ and some work undertaken in understanding the development of food and nutrition policies within local government^(14,15,21,22) but little is known of the overall impact on the activities undertaken by Australian local governments. Are they more engaged in food and nutrition activities now than in the past? Are nutrition or food activities considered by managers and/or staff as strategically important components of local government's activities?

A snap shot of food and nutrition activities of Australian local governments was undertaken in 1995 to determine their involvement in twenty-nine aspects of food and nutrition^(1,22). In January 2007, this survey was repeated. The aim was to determine the current level of local food and nutrition action and whether the level had changed between 1995 and 2007.

Methods

A cross-sectional study utilising a postal survey was undertaken of all local governments in Australia. Ethics approval was obtained from the Human Research Ethics Committee of the University of Wollongong (HE06/350).

The protocol for the study, including the survey instrument, replicated a study undertaken in 1995⁽¹⁾. The survey instrument, covering letter, contact details form and envelope were sent to the General Manager of each local authority requesting that s/he pass on the survey instrument to an appropriate person in the Environmental Health Services. A date, 2 weeks from that time, was nominated for return of the survey. Reminder letters were sent 1 week after the return date had expired. The time period was January–March 2007.

A list of 665 local governments was developed, based on the information on the Australian Local Government Association (ALGA) website. This compared with 742 local governments covered in 1995. The difference had resulted from a number of mergers and consolidations that had occurred in local governments in the 11-year period between surveys. The study analysis was restricted to 610 local governments, with the exclusion of the Northern Territory and Australian Capital Territory local governments, which are constituted differently from local governments elsewhere in Australia. These criteria for data analysis were also applied in the report of the survey in 1995.

The survey instrument

The survey instrument was based on known involvements of local governments at the time of the original survey, 1995. Information was collected from reports of local governments, review of local food policy councils and personal communications with staff. The framework was based on Lester's 1994 overview of the Australian food and nutrition system⁽²³⁾.

Part A of the survey instrument was designed to determine the extent to which local governments were involved in twenty-nine different aspects of the food system, broadly grouped under eight topics (left-hand column, Table 1). The survey included closed- and open-ended questions, to promote the ease of response while maximising the useful information. 'Yes' responses included three categories ('Yes, Council has in the past'; 'Yes, Council has in the present'; 'Yes, Council plans to in the future'). This was followed by open-ended questions requesting information on the department within the local government responsible for the implementation of the programme and the name or description of the project. A 'No' response was followed by an open question requesting reasons for non-involvement. It was suggested that the Environmental Health Officer may be the best person to answer the survey but s/he may find it necessary to refer to other staff for answers to particular questions. Next to specific groups of questions, prompts were included in the survey to suggest the responding staff person or a particular department to whom to refer for relevant information.

Part B of the survey requested demographic data to identify the position of the person completing the survey, the geographic location of the local government and its population base. Additional questions sought responses on the perceived role of local government in relation to a number of possible food-related activities. These questions used a Likert-type scale for the responses.

A specific attitudinal question was asked of the General Manager to designate where s/he would place food issues as a priority for consideration by Council in strategic planning. Copies of annual reports, strategic plans and relevant policy documents also were requested.

Data analysis

Coding of the completed surveys was undertaken as they were received. The open-ended responses were individually coded using the same codes as the original survey analysis. The coding of rural and urban local government was based on information on the ALGA website⁽²⁴⁾.

The data were entered into Excel (Microsoft® Corp., Redmond, WA, USA) and then transported to the Statistical Analytical Software (SAS) package release 8.2 (SAS Institute Inc., Cary, NC, USA) for analysis. Descriptive analyses using χ^2 tests were undertaken.

Results

The overall response rate for the 2007 survey was 37%, with a spread across the states that was not significantly different from the distribution of local governments in Australia but with a variation in response rate for each state, from 26% to 48% (Table 2; row 1). Overall 50% of all urban local governments in Australia responded and 30% of all rural local governments responded.

Table 1 presents the involvement of local governments in the twenty-nine different food and nutrition activities, both in 1995 and in 2007. Those activities reported by most local governments were related to monitoring hygiene standards, activities mandated by state law in most states. Lowest levels of reported involvements were found for areas of discretionary involvement for local governments such as nutrition education, food packaging and waste disposal and some aspects of zoning.

The results reported in Table 1 indicate the general trends in activity by local governments in food and nutrition activities over the 11-year period. In twelve areas of activity, local governments were significantly more active in 2007 than in 1995. In nine areas, the levels of reported activity decreased but the change was not statistically significant. In eight areas, there was basically no change in the level of reported activity. In two areas, monitoring of premises for compliance with the National Code and provision of meal services to community groups/organisations, the increase in activity in 2007 for all local governments was no longer significant when the Victorian local governments were removed from the analysis.

In some areas, such as monitoring premises for compliance with the Food Act and Regulations, improvement was from an already high level of involvement (89% in 1995, increasing to 96% in 2007). However, in other areas, while the improvement was statistically significant, it still represented a low level of activity reported by local governments. For example, involvement in support for community vegetable gardens increased from 10% to 20%, and involvement in breakfast programmes for schoolchildren increased from 2% to 6%.

Local governments consistently reported high levels of activity (at least 75% of local governments responded

yes) in the monitoring of hygiene standards and with zoning of shops in close proximity to residents. Local governments across Australia reported low levels of activity (less than 25% of local governments responded yes) in almost half of the food and nutrition areas (thirteen of the twenty-nine areas reported low levels of activity). The pattern of high and low levels of activity was similar in both 1995 and 2007.

All states reported at least some involvement in some of the twenty-nine food and nutrition activities, with the minimum number of involvements increasing from one activity to four activities over the period of the two surveys (Table 2). There was a trend for the overall involvement of local governments in food and nutrition initiatives to increase in the period 1995–2007, from a median of nine activities to a median of eleven activities. This trend was evident in each state. However, the range of involvements of local governments in food and nutrition activities had become more limited (maximum of twenty-three of twenty-nine activities) than in 1995 (up to twenty-eight of twenty-nine activities), representing an overall constriction of the range of activities of local government in food- and nutrition-related initiatives.

There was some variation in the levels of activity in the different states (Table 3). Victoria was particularly worth noting, as it was significantly more active than the rest of Australia in ten areas of activity, particularly in the areas of environmental health and community services. States that were significantly less active than the rest of Australia were Western Australia (ten areas less active) and NSW (five areas less active).

In response to the question of the General Manager, how important do you consider that food-related matters should be considered in the strategic planning process, both in 1995 and in 2007 approximately 40% responded that food issues were very important or essential. The responses in the different states varied, with Western Australian General Managers reporting higher levels of importance in 1995 and Victorian General Managers reporting higher levels of importance in 2007 (Table 4).

Staff were asked to rate their perceived importance regarding local government involvement in several food and nutrition areas (Table 5). Both in 1995 and in 2007, staff in Victoria rated several areas to be of high importance for local government involvement – nutrition education in schools (also rated more highly by local government staff in South Australia), food accessibility of aged and infirmed residents, food retail locations in relation to residential areas and nutritious foods available through the retail sector (2007 only). In contrast, NSW and Queensland local government staff rated involvement in several food areas to be of lower importance. Queensland staff rated food accessibility of aged and infirmed residents and food retail locations in relation to residential areas lowly in 1995 but were no different from the rest of Australia in 2007 for these two areas.

Table 1 Involvement of Australian local governments in the twenty-nine listed food and nutrition activities, 2007 and 1995

Area of involvement	2007		1995	
	Yes (%)	Number	Yes (%)	Number
Topic 1 – environmental health				
Policy/programme incorporating nutrition standards for food services for council staff	6	14	6	25
Monitoring of council-run food services for compliance with food standards	46*	106	32	132
Programmes to promote healthy eating practices for council staff	28*	65	12	48
Written nutritional guidelines for use in food purchase	6	14	8	32
Involvement in breakfast programmes for schoolchildren	6*	14	2	9
Monitoring of school canteens for compliance with food standards	69*	157	55	228
Topic 2 – hygiene standards				
Regulation of hygiene standards in restaurants and retail food outlets	99	226	98	406
Monitoring of food premises for compliance with Food Act and Regulations	96*	220	89	370
Submission of plans and specifications required for new and existing food premises	93	213	95	396
Monitoring of food premises for compliance with National Code for the Construction and Fit out of Food Premises	80**	183	73	301
Provision of hygiene education programmes for people involved in food handling and inspection duties	79	182	75	312
Topic 3 – nutrition education				
Provision of nutrition training to environmental health officers	9	22	13	54
Assistance in provision/conduct of school canteen expos	10	24	10	40
Hygiene and nutrition accreditation programmes for food outlets	42	96	33	137
Topic 4 – food packaging and waste disposal				
Detailing food-related packaging waste	22	50	18	75
Managing/reducing retail food-related waste disposal	35	80	28	118
Managing/reducing food production waste	10	22	14	57
Topic 5 – community services				
Provide meal services to community groups/organisations	29**	67	22	91
Monitor meal delivery services for compliance with food standards	51	116	43	178
Coordinate emergency food provision by welfare agencies	22	51	19	77
Monitor extent of hunger/difficulties of purchasing food in lower socioeconomic groups	13	29	9	39
Assist in development of food cooperatives	16*	37	8	34
Topic 6 – zoning				
Support of community vegetable gardens	20*	46	10	41
Monitor inclusion of fresh food retail outlets in commercial/residential development applications	5	12	8	34
Permit provision of shops in close proximity of residents	81	185	85	345
Topic 7 – commercial agriculture				
Establish and support fresh fruit and produce markets	34*	77	17	70
Incorporate maintenance of commercial agriculture within strategic plan	55	125	58	236
Topic 8 – economic planning				
Monitor provision of accessible and frequent public transport to food retail outlets	20	46	17	68
Incorporate development/maintenance of agriculture/food industries	51*	116	43	172

*Significant difference between percentage of local governments reporting activity in this area between 1995 and 2007 (χ^2 , $P < 0.05$).

†Difference no longer significant when 2007 data excludes Victorian local governments.

Table 2 Involvement in food and nutrition activities by local government in different states

		Vic	NSW	WA	Qld	SA	Tas
Total number of respondents (% LG in state)	2007	30 (37 %)	67 (44 %)	58 (40 %)	41 (30 %)	18 (26 %)	14 (48 %)
Median: no. of involvements of 50 % of respondents	2007	16	11	10	10	12	12
	1995	13	9	8	7.5	7	10
Range of number of involvements	2007	7–21	5–20	4–23	6–19	5–17	7–16
	1995	5–25	3–23	1–21	1–23	2–28	7–17

Vic, Victoria; NSW, New South Wales; WA, Western Australia; Qld, Queensland; SA, South Australia; Tas, Tasmania; LG, local government.

Table 3 Involvement of Australian local governments in the twenty-nine listed food and nutrition activities, 2007

Area of involvement	Sig. higher than remainder of Australia	Sig. lower than remainder of Australia
Topic 1 – environmental health		
Policy/programme incorporating nutrition standards for food services for council staff	Vic‡	
Monitoring of council-run food services for compliance with food standards	Vic	WA**
Programmes to promote healthy eating practices for council staff	Vic‡ SA†	NSW*** WA†
Monitoring of school canteens for compliance with food standards	Vic** Tas** SA*	Qld†
Topic 2 – hygiene standards		
Submission of plans and specifications required for new and existing food premises		SA†
Monitoring of food premises for compliance with National Code for the Construction and Fit out of Food Premises		SA†
Provision of hygiene education programmes for people involved in food handling and inspection duties	Tas*	WA†
Topic 3 – nutrition education		
Hygiene and nutrition accreditation programmes for food outlets	Tas‡ WA‡	NSW‡
Topic 4 – food packaging and waste disposal		
Detailing food-related packaging waste	Vic†	WA***
Managing/reducing retail food-related waste disposal		WA†
Managing/reducing food production waste		NSW**
Topic 5 – community services		
Provide meal services to community groups/organisations	Vic‡	Qld†
Monitor meal delivery services for compliance with food standards	Vic‡	NSW*** WA*
Coordinate emergency food provision by welfare agencies	Vic‡ Qld‡	NSW*** WA†
Monitor extent of hunger/difficulties of purchasing food in lower socio-economic groups	Vic‡	
Topic 6 – zoning		
Support of community vegetable gardens	NSW*	WA***
Permit provision of shops in close proximity of residents		WA**
Topic 7 – commercial agriculture		
Establish and support fresh fruit and produce markets	Vic‡	SA†
Topic 8 – economic planning		
Monitor provision of accessible and frequent public transport to food retail outlets	Vic†	Qld**

Sig., significantly; Vic, Victoria; NSW, New South Wales; WA, Western Australia; Qld, Queensland; SA, South Australia; Tas, Tasmania.
 χ^2 , * $P < 0.05$; ** $P < 0.05$; *** $P < 0.02$; † $P < 0.01$; ‡ $P < 0.001$.

However, in 2007, Queensland staff rated maintenance and promotion of primary food production to be of lower importance for local government involvement than the rest of Australia. Staff in NSW local governments were no different from the other states in 1995, but in 2007 they rated four areas of involvement to be of lower importance.

Discussion

There is clear evidence that both local communities and other spheres of government are demanding more from local government.⁽²⁵⁾

Local governments in Australia have been in an on-going state of change and under resource pressure due to conflicting demands on their services. The present study has

provided some insight into the impact that these pressures, together with other supportive initiatives, has had on local government involvement in food and nutrition initiatives. A broad view of possible local government involvement in the local food and nutrition system was applied.

The results obtained in the present study could be considered indicative of local governments across Australia as the responding local governments reflected the national distribution of local governments across the states. The lower response rate in 2007 may reflect a number of issues. Lower priority may be assigned to food and nutrition issues in local government, in which case the results may be an overestimation of local government involvements. Alternatively, there may be less staff available to participate in a study such as this, reflecting the greater demands being placed on local government resources or organisational issues affecting the access to the survey by relevant

Table 5 Perceived importance of involvement of local governments in various food-related issues – staff response

Areas of involvement	Staff value area higher than other states		Staff value area lower than other states	
	2007	1995	2007	1995
Food hygiene standards				
Food safety standards			NSW	SA
Hygiene and/or safety of institutional food services			SA	
Nutrition education in schools***	Vic*, SA	Vic**	NSW	
Nutritious foods available through retail sector	Vic**			
Maintenance and promotion of primary food production			Qld	
Meal services for aged/infirm residents				
Food accessibility of aged and infirm residents	Vic**	Vic**	NSW	Qld
Food retail locations in relation to residential areas	Vic**	Vic**	NSW	Qld

Vic, Victoria; NSW, New South Wales; WA, Western Australia; Qld, Queensland; SA, South Australia.

* χ^2 , $P = 0.01$ or less; ** χ^2 , $P = 0.001$ or less.

***Nutrition education in schools decreased across Australia between 1995 and 2007.

(a health promotion foundation supported by government funds) for local government engagement⁽²⁰⁾ or the mandatory requirement for Municipal Public Health Plans⁽³⁴⁾. The Food Security Network also proactively supports local governments in their food and nutrition roles⁽⁹⁾. However, as Victoria also was more active in several food and nutrition areas in 1995, which preceded these initiatives, it would be worthwhile to investigate other supportive factors that have been in place prior to this time.

Commitment within the organisation drives the allocation of resources and may account for some of the differences in activity levels reported. General Managers of local governments in Victoria in 2007 were significantly more likely to rate food and nutrition more important in the strategic planning process than other states. Staff in Victorian local governments were also significantly more likely to rate several food issues as important areas of activity for local governments. This finding, that in the state with higher levels of reported activity more staff rated food issues as important, is consistent with the finding of Dick⁽²¹⁾ that local government employees need to understand how food and nutrition policy can assist them to undertake their roles and fulfil the core business of Council if they are to engage in development (and implementation) of food and nutrition activities⁽²¹⁾.

The trend for NSW and Western Australia to report significantly lower levels of involvement in several areas of activity than the remainder of the Australian states is a possible area of concern. For Western Australia, this is also accompanied by a change in General Managers' views of the importance of including food and nutrition activities in strategic planning, which was significantly higher in 1995 than other General Managers in Australia and changed to being no different in 2007. Local government staff in NSW were significantly less likely to rate several food and nutrition issues of importance for local government involvement than other states. This is despite the pioneering involvement of several local governments in food and nutrition policy initiatives over the last 15 years. Activities may align with personal interests of staff and/or are reflective of local community circumstances,

and it cannot be assumed that they will be taken up by other local governments over time.

These patterns of activity are interesting for several reasons. The recently introduced requirement in NSW for local governments to nominate their level of involvement in monitoring and enforcement of food regulations occurred after the 2007 survey was conducted. Thus it is unlikely to have been a factor in these results. However, limited support from staff for local government involvement in food and nutrition activities, as found in this survey, may act as a barrier to the implementation of the new laws. The present survey may act as a baseline against which the impact of this new legislation may be monitored.

In Western Australia, the reduction in attitude of General Managers toward importance of food and nutrition issues in strategic planning is likely to have contributed to the lower levels of activity reported by local governments in that state. What led to this turnaround is uncertain. Informal feedback from some local government staff indicated that significant constraints had been imposed on local governments, allowing only the very core services to be offered. Conversely, another local government in Western Australia reported quite high levels of involvement across a range of food and nutrition areas, facilitated by joint initiatives with an academic institution. These different accounts reinforce the arbitrary/voluntary nature of many food and nutrition activities within local government.

The variation in local governments' involvements in the food and nutrition activities by the different states may result from various factors. Preliminary review of the factors reported by respondents in this survey included lack of funding, lack of resources and 'not a priority' as key issues. Another factor may be that activities conducted by local governments in some states are undertaken by other departments or organisations in different states. Alternatively, there may be food and nutrition responsibilities that are not being met in some states. More in-depth study of the factors behind these differences in reported activity levels between the different states is warranted, to identify barriers and incentives that

have impacted on local governments' involvements in the food and nutrition system.

Conclusion

Local governments in Australia continue to be engaged in food and nutrition activities. This involvement has constricted in range in the last 12 years but higher levels of engagement are reported for several areas. The levels of involvement of local governments in the different states varied significantly, with Victoria reporting higher levels of involvement in several areas, particularly in food and nutrition activities related to community services. Local governments in NSW and Western Australia reported significantly lower levels of involvement in food and nutrition activities. The reasons for these differences were not the focus of the present study; however, several factors may have contributed, including availability of resources and support, mandatory requirements by state governments, different attitudes of General Managers and staff, and availability of funds for special projects. If Australian local governments are to be recognised and supported for their involvements in food and nutrition activities, more in-depth research is required to elucidate the factors that act as barriers or facilitate their on-going involvement in this important area. Special consideration should be given to more in-depth research into the situation of rural local governments, with a view to identifying the necessary support and resources required to become or remain engaged in food matters.

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