Farm-to-school grant funding increases children’s access to local fruits and vegetables in Oregon

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Abstract
We undertook this study to measure the reach of Oregon’s legislated farm-to-school grant program among school districts and children, particularly low income, and examine changes in local purchasing, particularly fruit and vegetables, and the use of produce from school gardens in school meals. We conducted descriptive analyses to examine the reach and paired two-sample t-tests to examine average purchases of local products between school year 2014–2015 (baseline) and 2015–2016 (intervention). The study results indicate that the number of nonwhite students attending a district participating in farm-to-school nearly doubled in the intervention, and 89% of children eligible for free and reduced-price meals attended schools in participating districts compared with 39% of eligible children at baseline. Eighty-one percent of participating districts were low income, which is much higher than the percentage of districts characterized as low income statewide (65%). The policy also increased the average total local food purchases for low-income districts, particularly fruits and vegetables. The results suggest that the opt-in approach to the grant program facilitated greater

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participation from low-income districts that may otherwise have not accessed the grant program. Oregon’s policy approach of designating funds for procurement and/or education grants (versus generic farm-to-school grants to be used at the discretion of the district) enabled the prioritization of these activities in grantee districts. Future research can help develop a more thorough understanding of the long-term impacts of Oregon’s farm-to-school policy on children’s health outcomes and on other intended outcomes on farmers and the local economy.

Keywords
Farm to School, School Meals, Grant Funding, Fruits and Vegetables, Low Income

Introduction and Literature Review
Farm-to-school implementation differs by site but includes at least one of three core elements: (1) procurement of local foods for cafeteria meals, snacks, or taste tests; (2) educational activities related to agriculture, food, and nutrition; and (3) hands-on learning activities through school gardens (National Farm to School Network [NFSN], n.d.). Several studies indicate that farm-to-school activities provide an opportunity for students to experience local food in school meals and increase their knowledge of, preference for, and consumption of fruits and vegetables through involvement in educational activities (Bontrager Yoder et al., 2014; Joshi, Azuma, & Feenstra, 2008; Koch, Wolf, Graziose, Gray, Trent, & Uno, 2017; Kropp et al., 2018; Morris & Zidenberg-Cherr, 2002; Murphy, 2003; Schmidt, Kolodinsky, & Symans, 2006; Ratcliffe, Merrigan, Rogers, & Goldberg, 2009; Savoie-Roskos, Wengreen, & Durdard, 2017). Children in the United States underconsume fruits and vegetables (National Cancer Institute [NCI], 2018). However, since children consume as much as half of their daily calories at school (Cullen & Chen, 2017), making farm-to-school one of several potential strategies for improving comprehensive nutrition programs could increase fruit and vegetable consumption in preschool through high school (Hayes, Contento, & Weekly, 2018).

Farm-to-school programs are more likely to be operational in states with farm-to-school policies that support local procurement, school gardens, and/or experiential education activities (Schneider, Chriqui, Nicholson, Turner, Gourdert, & Chaloupka, 2012). Forty-six states, the District of Columbia, and one territory have farm-to-school legislation in process or in place (NFSN & Center for Agriculture and Food Systems, 2019). However, support of the three farm-to-school core elements (local procurement, school gardens, and experiential education) varies significantly by policy. The overall policy strategies (grants, incentives to purchase local product, proclamations, and/or staffing at state agencies) also differ.

These differences pose a challenge for generalizing the impact of policies on program implementation across states. Using data from 2006 through 2009, Nicholson, Turner, Schneider, Chriqui, and Chaloupka (2014) found that schools in states with farm-to-school–supported laws served higher amounts of fruits and vegetables in school meals.

In 2007, Oregon was one of the first states to pursue legislation to formalize a grant program for the procurement of local foods and educational activities related to farm-to-school. While the 2007 bill did not pass, legislation supporting a farm-to-school pilot program passed into law in 2011. In 2015, Oregon’s legislature passed a more comprehensive bill, which had a unique opt-in feature for procurement. Through this bill, schools automatically received funds to implement farm-to-school procurement, compared to prior state policy that only offered grant funding to Oregon schools through a competitive program.

Previous studies have indicated that school districts with lower per capita income have the lowest probability of serving local food (Ralston, Beaulieu, Hyman, Benson, Smith 2017). McCarthy, Steiner, and Houser (2017) similarly found that as the percentage of students eligible for free and reduced-price lunch at a school increased, the odds of having a farm-to-school program decreased. The opt-in feature of the Oregon policy in question is relevant because all districts (irrespective of free or reduced-price meal eligibility) could opt-in to receive grant funds. These funds could be used for local procurement without a formal application process, hence reducing the barriers to participation, particularly among low-income districts.
This study on Oregon’s first of its kind farm-to-school policy can provide guidance on best practices for revising current state policy or creating new farm-to-school programs. This paper aims to evaluate the opt-in procurement feature of Oregon’s farm-to-school grant program during the 2015–2016 time frame. Specifically, this paper will: (1) examine reach into Oregon’s school districts and children, particularly low-income children; (2) examine expenditures on local purchasing, particularly fruits and vegetables, and the use of school garden produce in school meals among procurement districts; and (3) compare the impacts of the opt-in and competitive policy strategies.

Methods

Intervention

Since 2011, the Oregon legislature has passed several bills that we define as the three “eras” of Oregon farm-to-school: a pilot program, a competitive program, and an opt-in program:

- 2011: A pilot program was administered to assess whether competitively awarded grant funding facilitated the purchase of Oregon-grown and -processed foods, particularly in low-income districts. The grant program also implemented farm- and garden-based educational programs in over half of the districts that applied (US$200,000 disbursed to 11 school districts out of 20 applicants) (House Bill 2649, 2013).

- 2013: A competitive grant program was administered with similar procurement and education components as the pilot program with a funding increase of US$1 million (total of US$1.2 million disbursed to 22 school districts out of 33 applicants) in the 2013–2015 biennium.

- 2015: The grant program received a one-time infusion of US$3.3 million and separated funds for procurement (80%) and education (20%) grants (total US$4.5 million in grants for 2015–2017 biennium).

○ Procurement grants included an opt-in feature with funding allocation prorated for average student participation in the National School Lunch Program (NSLP) (124 districts out of a total of 212 opted in for 2015–2016; 144 districts opted in for 2016–2017).

○ Education grants continued to have a competitive application (Upstream Public Health & Oregon Farm to School and School Garden Network, 2018) with priority for organizations serving a high percentage of free and reduced-price lunch–eligible students in the NSLP (24 grants awarded out of 55 applicants, serving 30 school districts).

- 2017: Grant funding was maintained at US$4.5 million for the 2017–2019 biennium with modifications:

○ Procurement grants continued to be opt-in and received 80% of overall funding, but could not be used to supplant existing purchases of Oregon-grown foods.

○ Education grants continued to be competitive, but eligibility criteria expanded.

Data Sources

This study used two data sets from the Oregon Department of Education (ODE). The first data set was 2014–2016 data from the opt-in procurement grantees. Baseline survey data were collected in September 2015, which was before implementation of the opt-in procurement grant program and reflected local procurement activities from 2014–2015; intervention survey data were collected in September 2016, a year after the start of the opt-in program. These data provided information on each grantee’s farm-to-school activities (e.g., use of materials to promote Oregon foods, incorporation of school garden produce into cafeteria meals, taste tests, total food budget for school meals); local procurement methods (e.g., direct purchase, wholesaler or distributor, growers’ cooperative); and types of local foods purchased. This includes the amount of food budget expended on different local product categories (e.g., processed fruits and vegetables, unprocessed fruits and vegetables, grains, dairy, beef).
The second data set was district-level data on student enrollment, race, and free and reduced-price lunch eligibility, which are collected annually by ODE. This study used these data from 2014–2015 (baseline) and 2015–2016 (intervention) to capture the number and demographics of students reached by the opt-in procurement grant program.

Data Quality
The quality of some of the ODE baseline and intervention data was problematic because districts were not required to track information on local food purchases before receiving grant funding during baseline. Additionally, districts were learning the reporting process during the intervention year. ODE performed quality checks on the data, particularly for district food expenditures, and flagged inconsistencies and missing or unrealistic numbers between baseline and intervention data. To address the discrepancies, ODE first telephoned district grantees to discuss the reported data. For fruits and vegetables, 58% of discrepancies were corrected by telephone. If ODE did not receive a response, they used data from the district’s reimbursement claims to update the data, which corrected 25% of the discrepancies for fruits and vegetables—a conservative correction because the district could have purchased more local products than were shown in its reimbursement claims. ODE updated the remaining 17% of fruit and vegetable discrepancies from reports submitted by distributors who worked with the districts. This correction is also conservative because districts can purchase products directly from farmers.

Additionally, ODE’s baseline year and intervention year reports did not collect data on whether the districts received funding to purchase local foods from sources other than the ODE grant program. These reports also did not provide information on whether U.S. Department of Agriculture (USDA) entitlement funds for school meal programs were used to purchase local products.

Data Analyses
Demographic characteristics of all of Oregon’s school districts were descriptively compared with the demographic characteristics of districts that participated in the opt-in program. This comparison was used to understand the opt-in program’s reach, especially into low-income school districts. A paired two-sample t-test was used to determine whether the average purchases of local products (all products and specifically local produce) were significantly higher the year of the intervention compared with the baseline. We tested the difference for all opt-in districts, for low-income opt-in districts, and for high-income opt-in districts. A low-income district was defined the same as Title 1: 40% of students enrolled in the district qualify for free and reduced-price lunches (U.S. Department of Education, 2018). Opt-in districts were defined as those districts choosing to receive procurement funds for 2015–2016. Reach measures included the number of students who attended school in an opt-in district; students participating in federal school meal programs in opt-in districts; opt-in districts’ expenditures on local food purchases, particularly fruit and vegetable purchases; and opt-in districts that incorporated school garden produce into cafeteria meals. Special attention was paid to low-income opt-in districts because these districts serve a larger proportion of children participating in the school nutrition programs, and the amount of grant funding districts received depended on NSLP participation.

RTI International’s Committee for the Protection of Human Subjects, which operates as RTI International Institutional Review Board, reviewed the study and deemed it exempted from Institutional Review Board approval.

Results
Oregon public school student enrollment in 2015–2016 was approximately 576,400 students, with 75% to 78% of Oregon’s school-aged population attending public schools. The ODE consists of 212 school districts and 1,485 schools. Table 1 provides some characteristics of all Oregon school districts compared with the opt-in districts. For example, of the 124 opt-in school districts, 100 (81%) were low-income districts, much higher than the percentage of districts characterized as low income (65%) statewide. A larger proportion (49%) of opt-in districts were medium-size districts with fewer small districts choosing to opt-in. Furthermore, only 10% of all districts had the opportunity to
participate in the competitive grant program compared with 68% of districts participating in the opt-in program.

Reach of the Opt-In Grant Program

Twenty-two districts participated in the competitive program in the baseline year compared with 124 districts in the intervention opt-in program. Table 2 shows that 88% of children in Oregon public schools attended districts participating in the intervention, an increase of 118% compared with the competitive program. The opt-in program also reached 96% more nonwhite children compared with the competitive program (approximately 89% of nonwhite students in the Oregon public school system were reached compared with 46% under the competitive program). Furthermore, the number of children eligible for free and reduced-price lunch participating in the opt-in program increased by 123% compared with the competitive program, reaching 78% of eligible children.

Change in Local Purchasing with the Opt-In Grant Program

Procurement grant funds for 2015–2016 totaled US$1.8 million; grant funds received by individual

Table 1. Demographic Characteristics of Oregon School Districts (N=212) and Opt-In Grantee Districts (N=124) for 2015–2016

<table>
<thead>
<tr>
<th>District Size</th>
<th>Percentage of All School Districts (n)</th>
<th>Percentage of Opt-In Districts (n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small (1–999 students)</td>
<td>59% (125)</td>
<td>38% (47)</td>
</tr>
<tr>
<td>Medium (1,000–6,999 students)</td>
<td>33% (70)</td>
<td>49% (61)</td>
</tr>
<tr>
<td>Large (more than 7,000 students)</td>
<td>8% (17)</td>
<td>13% (16)</td>
</tr>
<tr>
<td>District Income Status</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low income</td>
<td>65% (138)</td>
<td>81% (100)</td>
</tr>
<tr>
<td>High income</td>
<td>15% (32)</td>
<td>19% (24)</td>
</tr>
<tr>
<td>Unknown</td>
<td>20% (42)</td>
<td></td>
</tr>
<tr>
<td>% Nonwhite Students</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0–25%</td>
<td>63% (134)</td>
<td>57% (67)</td>
</tr>
<tr>
<td>26–50%</td>
<td>26% (56)</td>
<td>31% (37)</td>
</tr>
<tr>
<td>51–75%</td>
<td>9% (20)</td>
<td>11% (13)</td>
</tr>
<tr>
<td>76–100%</td>
<td>1% (2)</td>
<td>1% (1)</td>
</tr>
<tr>
<td>% Students Eligible for Free and Reduced-Price Lunch</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0–25%</td>
<td>10% (22)</td>
<td>2% (3)</td>
</tr>
<tr>
<td>26–50%</td>
<td>25% (53)</td>
<td>33% (41)</td>
</tr>
<tr>
<td>51–75%</td>
<td>49% (103)</td>
<td>56% (70)</td>
</tr>
<tr>
<td>76–100%</td>
<td>8% (16)</td>
<td>8% (10)</td>
</tr>
<tr>
<td>District Participated in the Competitive Program</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10% (22)</td>
<td>17% (21)</td>
<td></td>
</tr>
<tr>
<td>District Participated in the Opt-In Program</td>
<td></td>
<td></td>
</tr>
<tr>
<td>58% (124)</td>
<td>100% (124)</td>
<td></td>
</tr>
</tbody>
</table>

Note: Low-income district was defined as 40% of children enrolled in the district qualify for free and reduced-price lunch. Districts were included if they provided both baseline and intervention data. 

a Because the district is too small, data are not provided to protect confidentiality. District income status was known for all opt-in districts. 
b Race and ethnicity data are from ODE (2019b). 
c Free and reduced-price lunch data are from ODE (2019a). 
d Data from ODE (2017, September 26).
districts ranged from US$279 to US$166,596 with an average of US$14,605. The amount of funding depended on the district’s average daily participation in the NSLP, meaning that larger districts with higher participation in school meals received more funding. Table 3 shows the total food purchases of districts including purchases of all local foods and local produce during baseline and the intervention. During baseline, total average food expenditures for procurement grant districts were approximately

Table 2. Number of Participating Districts and Children in Oregon (Baseline 2014–2015 versus Intervention 2015–2016)

<table>
<thead>
<tr>
<th>District Characteristics</th>
<th>Program</th>
<th>Percentage Change from Competitive to Opt-In</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grantee Districts (n)</td>
<td>10% (22)</td>
<td>59% (124)</td>
</tr>
<tr>
<td>Students (n)(^a)</td>
<td>41% (232,771)</td>
<td>88% (508,092)</td>
</tr>
<tr>
<td>Nonwhite Students (n)(^b)</td>
<td>46% (95,131)</td>
<td>89% (186,766)</td>
</tr>
<tr>
<td>Students Eligible for Free and Reduced-Price Meals (n)(^c)</td>
<td>39% (112,641)</td>
<td>89% (250,800)</td>
</tr>
<tr>
<td>Average Daily Participation in the NSLP (n)(^d)</td>
<td>35% (104,063)</td>
<td>78% (235,309)</td>
</tr>
</tbody>
</table>

NSLP = National School Lunch Program.
\(^a\) 2015–2016 data are from ODE (n.d.).
\(^b\) Race/ethnicity data are from ODE (2019c).
\(^c\) Free and reduced-price lunch data are from ODE (2019b).
\(^d\) Average daily participation data are from USDA, Food and Nutrition Service (2019, October 4).

Table 3. Local Food Purchases for 2014–2015 and 2015–2016 for Opt-In Districts

<table>
<thead>
<tr>
<th></th>
<th>Mean Expenditures SY 2014–2015 (US$)</th>
<th>Percentage of Mean Total Food Expenditures SY 2014–2015 (%)</th>
<th>Mean Expenditures SY 2015–2016 (US$)</th>
<th>Percentage of Mean Total Food Expenditures SY 2015–2016 (%)</th>
<th>p-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Opt-In Districts (N = 121)</td>
<td>650,141</td>
<td>17.72%</td>
<td>655,269</td>
<td>18.52%</td>
<td>.743</td>
</tr>
<tr>
<td></td>
<td>Total Food Expenditures</td>
<td></td>
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<tr>
<td></td>
<td>All Local Food Purchases</td>
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<td></td>
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<tr>
<td></td>
<td>Local Fruit and Vegetable Purchases</td>
<td></td>
<td></td>
<td></td>
<td>.154</td>
</tr>
<tr>
<td>High-Income Opt-In (N = 23)</td>
<td>982,985</td>
<td>21.20%</td>
<td>940,007</td>
<td>19.98%</td>
<td>.277</td>
</tr>
<tr>
<td></td>
<td>Total Food Expenditures</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>All Local Food Purchases</td>
<td></td>
<td></td>
<td></td>
<td>.171</td>
</tr>
<tr>
<td></td>
<td>Local Fruit and Vegetable Purchases</td>
<td></td>
<td></td>
<td></td>
<td>.259</td>
</tr>
<tr>
<td>Low-Income Opt-In (N = 98)</td>
<td>572,025</td>
<td>16.31%</td>
<td>588,442</td>
<td>17.98%</td>
<td>.334</td>
</tr>
<tr>
<td></td>
<td>Total Food Expenditures</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>All Local Food Purchases</td>
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<td></td>
<td>.033</td>
</tr>
<tr>
<td></td>
<td>Local Fruit and Vegetable Purchases</td>
<td></td>
<td></td>
<td></td>
<td>.025</td>
</tr>
</tbody>
</table>

Notes: Low-income district was defined as 40% of children in the district qualify for free and reduced-price meals. Districts were included in the analysis if they provided both baseline and progress report data. We used a paired two-sample t-test to determine whether the average purchases of local products (all local products and specifically local produce) were higher in 2015–2016 than in 2014–2015.
US$650,000, with high-income districts averaging US$983,000 compared with US$572,000 for low-income districts. Overall, during the baseline year, opt-in districts spent 17.7% of their food expenditures on local foods at baseline or approximately US$115,000 per district, with nearly 2% of budgets spent explicitly on local produce.

During the intervention year, opt-in districts spent 18.5% of their budgets on local food purchases, which was an increase from baseline. The increase was driven by low-income grantee districts increasing their average local purchases (17.98% of total food expenditures), particularly local fruit and vegetable purchases (2.19% of total food expenditures; 12.19% of all local expenditures) by a statistically significant amount as can be seen in Table 3. These $p$-values can be interpreted as evidence of a difference in all local food purchases and, specifically, local produce purchases between the baseline and intervention years among low-income districts. No such difference was found among higher-income districts. However, it is important to note that the increase in total purchases is the amount of their grant funding. Technically, districts could use the grant funding in place of the funds they had previously used to purchase local products rather than make additional purchases, although this practice was discouraged.\(^1\) While average purchases of local products, including fruits and vegetables, decreased for high-income districts, Table 3 shows that this decrease was not statistically significant. Purchases of local products decreased probably because these districts received higher amounts of grant funding under the competitive program compared with the opt-in program.

In addition to purchasing local foods, some districts supplemented grant funds with school garden produce. Thirty-seven percent of opt-in districts incorporated school garden produce into cafeteria meals at one or more schools within their district, and 78% of these districts were low income. Furthermore, smaller districts (fewer than five schools in the district) incorporated school garden produce in their cafeteria meals more than larger districts.

**Conclusions and Discussion**

Limited studies have examined specific policies that encourage districts to engage in farm-to-school activities. Such evaluations are complex, given the interconnectedness of the NSLP, farm-to-school, and other state programming focused on nutrition and child health. Thus, it is difficult to disentangle the impacts resulting from any one particular policy.

Evaluating state policy and implementation changes such as those that took place in Oregon from 2014 to 2016 can help guide the development of more robust and effective state and local farm-to-school policies in Oregon and elsewhere. This limited study examined the effects of Oregon’s farm-to-school policy on low-income school districts related to the reach of the grant program and the purchase of local foods, specifically fruits and vegetables. Our findings, which are mainly descriptive, indicate that the policy, with its increased funding for school districts, increased the reach of the grant program for nonwhite students and low-income districts through its opt-in process. Specifically, the number of nonwhite students attending a district participating in farm-to-school nearly doubled. Further, 81% of participating districts were low income, which is much higher than the percentage of districts characterized as low income (65%) statewide. Additionally, under the opt-in program, 89% of children eligible for free and reduced-price meals attended schools in participating districts compared with 39% of eligible children under the competitive program. These facts demonstrate that the opt-in policy has been successful at reducing the barriers for low-income districts and children to participate in farm-to-school.

Furthermore, the policy increased the average total local food purchases for low-income districts, particularly fruits and vegetables. However, the findings also indicate that high-income districts, as a group, decreased their total purchases of local products with the opt-in grant program. As noted earlier, this may be because a higher proportion of the high-income school districts participated in the competitive grant program the year before and re-

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\(^1\) The 2017 legislation was revised to specify that grant funds should not be used to supplant existing purchases of Oregon foods.
ceived a larger amount of grant funding that year, meaning that their funding actually decreased during the opt-in program for local food purchases.

Additionally, the preliminary research suggests that larger school districts face barriers incorporating school garden produce into school lunches. This could be occurring for two reasons, both of which we heard during interviews with school foodservice directors. First, given the number of students they serve, smaller districts can use the limited school garden produce across all of the schools in their district, while the volume of produce needed by larger districts is more sizeable with gardens unlikely to meet the demand for all schools. Therefore, the larger districts choose to use the garden produce for taste tests or educational purposes. Second, larger school districts may have contracts with produce distributors or food-service management companies, making it more difficult to change cafeteria offerings.

Because of the opt-in nature of the legislation, a control group was not possible, which is a limitation to this study. A control group would have served as a stronger baseline to compare the districts and assess the effect of the grant funding while minimizing the effect of all other variables. These data would have been available if a policy analysis or evaluation had been supported during the pilot or competitive program. A second limitation is that generalizations from Oregon’s farm-to-school legislation cannot be made because of unique program attributes (providing US$4.5 million in state funds, 80% of the funding set aside for local procurement and available to all districts on an opt-in basis, while 20% of the funding allocated to education grants through a competitive process). Nevertheless, this evaluation does offer useful insights into policy design and implementation for other states that are considering farm-to-school policies. As described above, the opt-in approach to the grant program facilitated greater participation from low-income districts that may not have accessed the grant program otherwise. Research on other states using an opt-in approach for grant programs aimed at reaching low-income school districts (for farm-to-school or any other intervention) can provide insights into the efficacy of this approach for reaching low-income districts or other target audiences. Further, Oregon’s policy approach of designating funds for procurement and/or education grants (versus generic farm-to-school grants to be used at the discretion of the district) enabled the prioritization of these activities in grantee districts. Research on the impact of similar policies or grant programs that target the use of funds to specific activities within a broader farm-to-school approach can corroborate the efficacy of these policy design elements and findings from this study.

Legislation that progresses over time, like the iterations of Oregon’s farm-to-school procurement policy (and associated education grant program), is a strategy for moving farm-to-school activities from a pilot to an institutionalized format within the school system. The initial grant funding (competitive or opt-in) can jumpstart the adoption of farm-to-school activities especially in low-income districts, by providing the opportunity for school administration to witness the benefits of farm-to-school. As with any grants or external funding provided to schools, the hope is that the demonstrated benefit in itself is a compelling argument for self-sustaining the activities without grant funding (competitive or opt-in) in the future. Future studies conducting a multiyear follow-up on the grantee districts could provide valuable insights into the sustainability of activities seeded by grant funding, as well as the ability of districts to leverage other funds to supplement funds enabled through state policy. These findings, in turn, could be incorporated into future policy and grant program design. For example, if the longitudinal data demonstrate that a majority of school districts needed at least three years of grant funding to signal elements of self-sustainability, then the grant program could be structured to provide funds to a district for three consecutive years with requirements for demonstrating sustainability and leveraging other funds.

Additional research can help develop a more thorough understanding of the long-term impacts of Oregon’s farm-to-school policy on children’s health outcomes and on other intended outcomes on farmers and the local economy. Future research could assess the impacts of the grant program on children’s eating behaviors, particularly in low-
income districts; farmer incomes, market expansion, and viability; and economic and employment multipliers for the state. Future research could also consider comparing policy models and impacts across states implementing farm-to-school policies to provide insight into impactful approaches and best practices to guide the field.

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