Final Report

Economic Impact of the Early Care & Education Industry in Boulder County
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Prepared for
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Executive Summary

Background

In 2002 the Early Care and Education Council of Boulder County and the Early Childhood Council of Larimer County developed the Early Care and Education Shared Vision Initiative. The Initiative grew out of a joint understanding between the two groups that meaningful changes to the early care and education (ECE) system to benefit young children could not occur until ECE advocates are successful in creating a shared vision of child care and preschool education as a community priority.

In early 2003, the Councils selected BBC Research & Consulting (BBC) to conduct an economic impact study of the ECE industries in Boulder County and Larimer County.

Objectives

The Early Care & Education Council of Boulder County specified two primary objectives for this research.

- Characterize the early childhood education industry in Boulder County and compare it to other industries; and
- Estimate the economic impact of the early childhood education industry on the Boulder County economy.

Overview of the ECE Industry in Boulder County

The economy of Boulder County is large and dynamic, notwithstanding the recent recession. There are about 41,000 children under the age of 12 who may require paid child care if their parents participate in the labor force.

As of May 2003, there were 11,429 Full-Time Equivalent (FTE) slots available for children in 322 licensed ECE facilities. One FTE slot can be taken up by more than one child in part-time care. The total number of utilized FTE slots is estimated at 9,000 with 19 percent being unlicensed providers.

The child care services industry employs roughly the same number of workers as the legal services or management consulting industries in Boulder County. Wages are comparable to those paid to teacher assistants and maids or housekeepers.

Economic Impact of the Boulder County ECE Industry

The total economic impact of the ECE industry is the sum of new dollars injected into the economy (direct impact) and the indirect impact of those dollars being re-spent within the economy. To model the total impact, BBC applied the Bureau of Economic Analysis RIMS-II multipliers for Boulder County to the direct expenditures of ECE providers and the wages that some parents would forgo if paid child care were no longer available.

The direct impact of expenditures by paid ECE providers exceeds $50 million dollars. The indirect impact of these dollars circulating through the economy is more than $28 million, yielding a total impact of nearly $79 million.

The direct impact of the wages that some parents would forgo if paid child care were no longer available is more than $220 million dollars, and the indirect impact is $160 million. The total impact of the additional disposable income of these parents exceeds $384 million.

The total economic impact of the ECE industry on Boulder County in 2002 was $463 million.
Section I. Introduction

Background

In 2002 the Early Care and Education Council of Boulder County and the Early Childhood Council of Larimer County developed the Early Care and Education Shared Vision Initiative. The Initiative grew out of a joint understanding between the two groups that meaningful changes to the early care and education (ECE) system to benefit young children could not occur until ECE advocates are successful in creating a shared vision of child care and preschool education as a community priority.

The Councils believe that ECE advocates in each community must engage partners that have resources, influence, decision-making authority and community support in order to achieve the system changes needed. To engage those partners requires data demonstrating that the “business” of early childhood education contributes to the economies of the local community.

In early 2003, the Councils selected BBC Research & Consulting (BBC) to conduct an economic impact study of the ECE industries in Boulder County and Larimer County. This report presents the findings of the Boulder County study.

Objectives

The Early Care & Education Council of Boulder County specified two primary objectives for this research.

- Characterize the early childhood education industry in Boulder County and compare it to other industries; and
- Estimate the economic impact of the early childhood education industry on the Boulder County economy.

Methodology

To complete the industry overview, BBC gathered data from the U.S. Bureau of the Census, the U.S. Bureau of Labor Statistics, the Colorado Department of Local Affairs, the Boulder Chamber of Commerce and the child care resource and referral agency serving Boulder County (City of Boulder, Department of Housing and Human Services, Division of Children, Youth & Families).

The study team created a customized economic impact model to estimate the total number of dollars that the ECE industry contributes directly and indirectly to the local economy. Inputs to the model included financial and operational data from child care centers, preschools and family child care homes throughout Boulder County. Important information was also provided via a telephone survey of 200 Boulder County parents. Appendix A details the methodology for the BBC Early Childhood Education Economic Impact Model.
Acknowledgements

The BBC Research & Consulting team gratefully acknowledges the assistance and input of members of the Shared Vision Initiative of Boulder County and Larimer County. Members included Maria Harper, Suzanne Helburn, Andrea Poniers, Steve Callander, Pam Patterson, Ule Logue, Larry Neal and Wendy Watson. These individuals coordinated the collection of important data about the local ECE industry. Additionally, the study team would like to thank the many ECE providers in Boulder and Larimer Counties who generously shared important financial and operational data. This research was funded by the Colorado Department of Education.

Contents of This Report

The next section presents a characterization of the ECE industry in Boulder County, including employment and wage information. It also compares the ECE industry with other industries in the County in terms of number of employees, annual wages and total payroll. Section III describes the impact that the ECE industry has on the local economy.

Appendix A details the methodology used to develop the economic impact model, and Appendix B provides detailed findings from the Boulder County Parent Telephone Survey.
Located in the north-central part of Colorado, Boulder County encompasses both urban and rural settings. The County is home to the University of Colorado at Boulder, along with farmland and a large concentration of high-technology firms.

### What is Boulder County’s Population?

The most current population estimates available show Boulder County as home to approximately 275,000 residents. Boulder County is the sixth largest county in Colorado. As demonstrated by Exhibit II-1, all of the ten most populous counties in Colorado are along the Front Range.

![Exhibit II-1. Largest 10 Counties in Colorado, 2002](image)

There were nearly 63,000 children living in Boulder County in 2000. Two-thirds (approximately 41,000) of these children are under the age of 12 and thus young enough to be eligible for paid child care or preschool education. See Exhibit II-2.

![Exhibit II-2. Age of Children in Boulder County, 2000](image)

### What is the Size and Nature of Boulder County’s Economy?

In addition to being the sixth largest county in Colorado, Boulder County is also the State’s sixth largest economy in terms of employment. According to non-seasonally adjusted labor force statistics from the Colorado Department of Labor and Employment, total employment in the county was nearly 177,000 in March 2003. During that same time period, the County unemployment rate was 5.7 percent.
Section II. Overview of the ECE Industry in Boulder County

There are almost 11,500 business establishments in Boulder County. As shown by Exhibit II-3, the vast majority of businesses in the County are small businesses.

The largest businesses in the County and their estimated employment levels are found in Exhibit II-4. The University of Colorado is by far the largest employer.

Exhibit II-3.
Distribution of Business Establishments by Employment Size

Exhibit II-4.
Top 10 Employers in Boulder County, 2002

<table>
<thead>
<tr>
<th>Employer Name</th>
<th>Estimated # of Employees</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Colorado</td>
<td>7,500</td>
</tr>
<tr>
<td>IBM</td>
<td>4,800</td>
</tr>
<tr>
<td>Boulder Valley School District</td>
<td>4,200</td>
</tr>
<tr>
<td>Sun Microsystems</td>
<td>3,200</td>
</tr>
<tr>
<td>Storage Tek</td>
<td>2,735</td>
</tr>
<tr>
<td>St. Vrain Valley School District</td>
<td>2,400</td>
</tr>
<tr>
<td>Ball Corp.</td>
<td>2,250</td>
</tr>
<tr>
<td>Boulder Community Hospital</td>
<td>2,102</td>
</tr>
<tr>
<td>EDS</td>
<td>2,000</td>
</tr>
<tr>
<td>Level 3 Communications</td>
<td>1,900</td>
</tr>
</tbody>
</table>

Source: Boulder Chamber of Commerce from Daily Camera, Boulder County Business Review, and Business Research Division.
Section II. Overview of the ECE Industry in Boulder County

In terms of private-sector industry, the professional, scientific, administrative and technical services industry employs a larger proportion of workers than any other industry. Manufacturing and retail trade along with accommodation, food service, arts, entertainment and recreation are also major industries in Boulder County, as demonstrated by Exhibit II-5.

**Exhibit II-5.**
Private-Sector Employment by Industry Boulder County, 2001

Relative to the rest of Colorado, Boulder County residents have higher earnings. In 2000, median earnings for men living in Boulder County and working full-time, year-round were approximately $48,000 and for women they were $32,000. Statewide median earnings for men were approximately $38,500 and for women were $29,500.

What is the Size and Nature of the ECE Industry?
The ECE industry in Boulder County employed almost 1,300 individuals who collectively earned $17,965,000 in 2001, according to the estimates from the U.S. Census Bureau’s County Business Patterns. Average annual wages in Boulder County for child care workers and administrators are described in Exhibit II-6. Most providers of paid child care are small businesses.

**Exhibit II-6.**
Average Early Childhood Education Wages Boulder County, 2001

Note: Does not include public-sector employment or non-employer entities such as family farms.
There are many types of child care providers in Boulder County. ECE providers that are licensed by the State’s Division of Child Care include family homes, child care centers, preschools and after-school care on school property. Unlicensed providers include paid care provided by relatives, friends, nannies and neighbors.

As of May 2003, there were 11,429 Full-Time equivalent (FTE) slots for children available within 322 licensed child care facilities in the County. An FTE slot can be used either by one child who is in full-time care or by a combination of children in part-time care. Exhibit II-7 describes the distribution of child care FTE slots in terms of type of facility, while Exhibit II-8 describes the distribution of these FTE slots in terms of children’s ages.

Exhibit II-7.
ECE Providers in Boulder County

On average, child care centers and school age sites for before and after school care tend to care for a large number of children within one facility. As demonstrated by Exhibit II-9, the average number of licensed slots for family homes is eight children per home, versus 76 children for a child care center.

Exhibit II-9.
Average Size of Licensed Facilities

<table>
<thead>
<tr>
<th>Type of Facility</th>
<th>Average Number of Licensed Slots</th>
</tr>
</thead>
<tbody>
<tr>
<td>Family Home</td>
<td>8</td>
</tr>
<tr>
<td>Child Care Center</td>
<td>76</td>
</tr>
<tr>
<td>Preschool</td>
<td>29</td>
</tr>
<tr>
<td>School Age Site</td>
<td>71</td>
</tr>
</tbody>
</table>

Source: City of Boulder, Division of Children, Youth & Families.
Knowing that the count of FTE slots in Boulder County is 11,429 is just the beginning. In actuality, most centers choose not fill to their licensed capacity. The results of a telephone survey conducted with Boulder County parents in May 2003, verifies that there are unused slots in Boulder County. And, there are about 1,700 FTE slots that are being used in unlicensed forms of paid child care. Thus, the total number of utilized FTE slots is close to 9,000, as demonstrated by Exhibit II-10.

Policy and decision makers may also find it helpful to understand how the ECE industry compares to other industries within Boulder County. Exhibit II-11 describes several industries that are similar to the ECE industry in terms of the number of persons employed.

### Exhibit II-10.
**ECE Usage in Boulder County**

<table>
<thead>
<tr>
<th></th>
<th>Number of FTE Slots</th>
</tr>
</thead>
<tbody>
<tr>
<td>Licensed utilized</td>
<td>7,200</td>
</tr>
<tr>
<td>Unlicensed utilized</td>
<td>1,700</td>
</tr>
<tr>
<td><strong>Total utilized</strong></td>
<td><strong>8,900</strong></td>
</tr>
</tbody>
</table>

Source: BBC Research & Consulting from the City of Boulder, Division of Children, Youth & Families and Boulder County parent telephone survey 2003.

### How Does the ECE Industry Compare to Other Boulder County Industries?

The importance of the ECE industry can be measured in many ways. In the next section of this report, the economic impact of ECE industry spending on goods and services is measured and described along with the economic benefits contributed by working parents.
Average annual wages for child care workers are below the median wages for full-time Boulder County workers $48,000 for men and $32,000 for women. As Exhibit II-12 demonstrates, child care workers earn wages similar to housekeepers and security guards.

Annual payroll brings together data on employment and wages. In looking at Exhibit II-13, we see that the ECE industry compares most closely to religious organizations and beauty salons in terms of annual payroll for a similar number of employees. Most of the other industries with similar payrolls in Boulder County employ significantly fewer workers than the ECE industry. For example, publishers of periodicals had an annual payroll of $18,399,000 in 2001, but this payroll was distributed among just 374 employees.

ECE Education administrators who earn about $31,000 on average have earnings similar to food service managers, meter readers and butchers.
Economic Impact — Baseline Data

In Boulder County, nearly 9,000 FTE children participate in paid ECE (see Exhibit III-1). This translates into annual expenditures of more than $61 million in ECE fees. As detailed in Appendix A, not all of these revenues qualify as new dollars being injected into the Boulder County economy. As a supportive industry, only the fees spent by parents who would change their labor force participation in the absence of paid child care qualify as true direct impacts on the economy (see Appendix A). In Boulder County, 74 percent of households with children in paid ECE have at least one wage earner who would alter their labor force participation if paid ECE were no longer available. These are the “But For” parents shown in Exhibit III-1. In addition, about 1 percent of the children in Boulder County paid child care reside outside of the County.

In addition to fees paid by parents, additional revenues flow to and are spent by child care providers in the local economy. These other revenue sources include the Colorado Child Care Assistance Program (child care subsidies for low-income families), the Colorado Preschool Program (preschool services for high-risk children) and the Child and Adult Care Food Program.

In total, more than $50 million dollars qualify as new dollars being injected into the Boulder economy as a direct result of the paid ECE industry.
Direct Impact

Paid ECE provider expenditures and the wages (net of child care expenditures) that “But For” parents would forgo in the absence of paid child care directly impact the Boulder economy. Exhibit III-2 on the following page details where child care providers spend the portion of their revenues that are paid by “But For” parents and the total annual wages that would be forgone by “But For” parents. These are the new dollars that are spent and re-spent within the County.

Indirect Impact

When a new dollar (direct impact) is spent in the economy, it circulates (is re-spent) in the economy. The Bureau of Economic Analysis RIMS-II multipliers for Boulder County are used to calculate the indirect impact of new dollars. The multipliers (found in Appendix A) vary by type of expenditure, to allow for goods or services that are purchased outside the regional economy. The indirect impact of expenditures by households (consumers) is calculated using a single multiplier that is based on a typical bundle of goods and services purchased by households. The indirect impact measures the value of the circulation of new dollars throughout the economy. Refer to Exhibit III-3 on page 12.

Total Impact

The total economic impact of the paid ECE industry in Boulder County is equal to the sum of the direct and indirect impacts. As shown in Exhibit III-4, the total impact of expenditures by providers of paid ECE is nearly $79 million dollars annually. As a direct result of the paid ECE industry, “But For” parents continue their labor force participation. When the “But For” parents spend their disposable income (net of child care expenditures, to prevent double-counting) they make a substantial contribution to the Boulder economy — $384 million annually.

The paid ECE industry’s economic impact on the Boulder County economy exceeded $460 million dollars in 2002. Refer to Exhibit III-4 on page 13.
Exhibit III-2. ECE Industry, Impact Model, Direct Impacts

All qualified revenues $50,527,332

Paid ECE Provider Direct Expenditures $50,527,332

- Salary and wages $34,688,378
- Insurance $3,722,087
- Other expenditures $3,568,170
- Mortgage/Rent $2,495,925

- Food expense $2,409,659
- Maintenance & repairs $658,885
- Program supplies $598,110
- Transportation & travel $484,666

- Job training $361,360
- Utilities $332,830
- Marketing, advertising, public relations $276,056
- Telephone $226,507

- Office supplies $252,982
- Interest & bond payments $159,863
- Accounting $139,423
- Licensing fees $36,113

- Equipment rental $31,391
- Maintenance supplies $22,649
- Security service $21,129
- Printing $14,506

First aid kits $8,950
Postage $8,897
Legal services $8,798

Direct Expenditures: Disposable Income of "But For" Parents (net of child care) $223,548,523

Total Provider Direct $50,527,332 + Total "But For" Parents Direct $223,548,523 = Total Direct $274,075,855
Exhibit III-3.
ECE Industry, Impact Model, Indirect Impacts

Paid ECE Provider Indirect Expenditures
$28,270,540

- Salary and wages
  $19,994,381
- Insurance
  $2,448,760
- Other expenditures
  $2,081,671
- Food expense
  $1,125,311

- Mortgage/Rent
  $862,342
- Program supplies
  $329,917
- Maintenance & repairs
  $274,755
- Transportation & travel
  $231,573

- Job training
  $221,730
- Marketing, advertising, public relations
  $138,028
- Telephone
  $133,390
- Accounting
  $106,198

- Utilities
  $91,994
- Interest & bond payments
  $89,955
- Office supplies
  $73,719
- Licensing fees
  $16,858

- Equipment rental
  $14,016
- Maintenance supplies
  $8,724
- Security service
  $8,078
- Printing
  $6,200

- Legal services
  $5,732
- Postage
  $4,074
- First aid kits
  $3,133

Total Provider Indirect
$28,270,540

Total "But For" Parents Indirect
$160,552,549

Total Indirect
$188,823,089

Indirect Expenditures: Disposable Income of "But For" Parents (net of child care)
$160,552,549
Exhibit III-4.
ECE Industry, Economic Impact Model, Total Economic Impact

\[
\text{Total Provider Direct} \quad + \quad \text{Total Provider Indirect} \quad = \quad \text{Total Economic Impact of Paid ECE Providers} \\
\$50,527,332 \quad + \quad \$28,270,540 \quad = \quad \$78,797,872
\]

\[
\text{Total 'But For' Parents Direct} \quad + \quad \text{Total 'But For' Parents Indirect} \quad = \quad \text{Total Economic Impact of "But For" Parents} \\
\$223,548,523 \quad + \quad \$160,552,549 \quad = \quad \$384,101,071
\]

\[
\text{Economic Impact of the Paid ECE Industry on Boulder County} \quad = \quad \$462,898,944
\]
APPENDIX A.
Boulder County Economic Impact Model Methodology
Theory

Economic impact analysis using input-output models (such as RIMS-II or IMPLAN) measures the contribution to economic growth (injection of new dollars, expansion of the labor force, productivity gains) of an industry. The economic interpretation of this analysis is simplest when the industry of interest is a base or primary industry. These industries, by the nature of their work, bring new dollars into a regional economy. A typical example of a base or primary industry is mining. Here, minerals are extracted, processed and sold. Sales to buyers outside the region draw new dollars to the local economy. Employees spend their wages in the local economy and the firm spends its dollars on services and supplies from within the local economy. These dollars in turn support employment and generate additional spending (though at a lower rate than the initial infusion of dollars).

The Early Care & Education industry falls into a different category — it is considered to be a secondary industry, supporting the larger economic base. As a supportive industry, not all dollars spent by ECE providers are actually new dollars to the local economy. Analyses that include all ECE revenues overstate the economic impact of the industry.

BBC’s approach to measuring the economic impact of the ECE industry is based on the following premises:

- The pool of dollars (ECE fees) that should be included as direct impacts in the economic impact model must meet the following conditions:
  - Fees from working parents who would change their labor force participation (either exit the labor force or reduce their hours worked) BUT FOR the availability of paid ECE. The earnings that the BUT FOR parents spend in the local economy would be lost without paid care. Thus, their expenditures on paid ECE would not be substituted for other local goods or services.
  - Fees from any parents who live outside the regional economy [County] but have their children in paid care within the County. These are new dollars being spent in the local economy that directly result from paid care.

- Additionally, the after-tax earnings net of ECE expenditures (remaining disposable income) of BUT FOR parents are also new dollars that when spent directly on local goods and services impact the local economy. This disposable income does not include dollars received from the child care tax credit.
The model excludes the following dollars (ECE fees and parent income):

- The fees paid by non-working parents who live in Boulder County. These expenditures could be substituted for other goods within the regional economy.
- The fees paid by parents who would switch to informal, unpaid child care arrangements rather than change their labor force participation (either exit the labor force or reduce their hours worked) if their current paid ECE provider was no longer available.
- The after-tax earnings (net of ECE expenditures) of those parents who would turn to informal, unpaid ECE arrangements rather than change their labor force participation (either exit the labor force or reduce their hours worked) if their current paid ECE were no longer available.

Data Sources

To develop the economic impact model, both primary and secondary data were collected.

- **Provider data.** A variety of types of ECE providers from across the County supplied BBC with detailed annual income statements, demonstrating sources of revenue and expenditures by category. Based on this data, BBC developed a pro forma of licensed provider expenditures.

- **Parent data.** BBC surveyed 200 Boulder County parents with children in paid ECE in the County using random digit dial sampling. All sample surveys are subject to sampling error. At the 90 percent confidence level, the precision of the estimates (sampling error) from 200 completed surveys has the following ranges:
  - Percentages near 10% or 90%: +/- 3.5%
  - Percentages near 20% or 80%: +/- 4.6%
  - Percentages near 30% or 70%: +/- 5.3%
  - Percentages near 40% or 60%: +/- 5.6%
  - Percentages near 50%: +/- 5.8%

The survey data provided several key inputs to the economic impact model, including:

- Estimates of the proportion of Boulder County households with one or more children in paid ECE;
- The distribution of County children in paid ECE by type of provider used (center, family home, alternative paid care arrangement);
- Expenditures on child care fees;
- The consequences on labor force participation that would result from the absence of paid ECE.
In addition to the data used in the economic impact model, the survey collected additional information about parents’ use of paid child care, which is detailed in Appendix B.

- **Census data.** Census data were used to calculate the number of households in Boulder County with children age 12 and under living in the home.

- **County data.** The agency providing ECE resource and referral services for Boulder County (City of Boulder, Department of Housing and Human Services, Division of Children, Youth and Families) supplied BBC with data on licensed ECE providers. Information on Boulder County employers came from the Boulder Chamber of Commerce.

- **Bureau of Economic Analysis data.** The BEA’s input-output model, RIMS-II, was the source of the Boulder County specific multipliers employed in the analysis. These industry expenditure multipliers, by category of expenditure, are included in Exhibit A-1 below. RIMS-II also includes a multiplier applied for spending by households, 1.7182.

### Exhibit A-1.
Table of Industry Multipliers, Boulder County

<table>
<thead>
<tr>
<th>Expenditure Category</th>
<th>RIMS-II Multiplier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salary &amp; wages</td>
<td>1.5764</td>
</tr>
<tr>
<td>Employee insurance</td>
<td>1.6579</td>
</tr>
<tr>
<td>Job training</td>
<td>1.6136</td>
</tr>
<tr>
<td>Rent or mortgage</td>
<td>1.3455</td>
</tr>
<tr>
<td>Utilities</td>
<td>1.2764</td>
</tr>
<tr>
<td>Maintenance &amp; repairs</td>
<td>1.4170</td>
</tr>
<tr>
<td>Security service</td>
<td>1.3823</td>
</tr>
<tr>
<td>Licensing fees</td>
<td>1.4668</td>
</tr>
<tr>
<td>Insurance (fire, etc)</td>
<td>1.6579</td>
</tr>
<tr>
<td>Insurance (worker's comp)</td>
<td>1.6579</td>
</tr>
<tr>
<td>Office supplies</td>
<td>1.2914</td>
</tr>
<tr>
<td>Program supplies</td>
<td>1.5516</td>
</tr>
<tr>
<td>Food</td>
<td>1.4670</td>
</tr>
<tr>
<td>First aid kits</td>
<td>1.3501</td>
</tr>
<tr>
<td>Maintenance supplies</td>
<td>1.3852</td>
</tr>
<tr>
<td>Equipment rental</td>
<td>1.4465</td>
</tr>
<tr>
<td>Transportation &amp; travel</td>
<td>1.4778</td>
</tr>
<tr>
<td>Telephone</td>
<td>1.5889</td>
</tr>
<tr>
<td>Postage</td>
<td>1.4579</td>
</tr>
<tr>
<td>Marketing, Advertising, Public Relations</td>
<td>1.5000</td>
</tr>
<tr>
<td>Printing</td>
<td>1.4274</td>
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<tr>
<td>Interest payments</td>
<td>1.5627</td>
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<tr>
<td>Audit services</td>
<td>1.7617</td>
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<tr>
<td>Legal services</td>
<td>1.6515</td>
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<tr>
<td>Theft bond</td>
<td>1.5627</td>
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<tr>
<td>Accounting</td>
<td>1.7617</td>
</tr>
<tr>
<td>Other expenses</td>
<td>1.5834</td>
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</tbody>
</table>
APPENDIX B.
Boulder County Parent Survey Findings
To complete the economic impact model for the ECE industry in Boulder County, a telephone survey with 200 parents with children in paid child care was conducted, using random digit dialing methods. (For additional details about the survey methodology, see Appendix A.) While the main purpose of the telephone survey was to collect data needed for the model, results also provide insight into the experience of Boulder County parents and children who use paid child care.

**What Type of Care Do Parents Choose?**

The most common type of paid care chosen by parents is a child care center or preschool setting. Fifty-eight percent of the children represented in the survey were in a child care center or preschool as compared to 15 percent who were in a family home. See Exhibit B-2.

**Exhibit B-2.**
**Type of Child Care Used in Boulder County**

<table>
<thead>
<tr>
<th>Type of Care</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Child care center or preschool</td>
<td>58%</td>
</tr>
<tr>
<td>Family home provider</td>
<td>15%</td>
</tr>
<tr>
<td>After school program</td>
<td>15%</td>
</tr>
<tr>
<td>Relative/friend/neighbor</td>
<td>5%</td>
</tr>
<tr>
<td>Nanny</td>
<td>7%</td>
</tr>
</tbody>
</table>

As part of the telephone survey, parents were asked if their paid child care provider was licensed by the State of Colorado Division of Child Care. Eighty percent of the children whose parents participated in the survey had been placed with licensed providers.
A higher percentage of infants and toddlers are in family homes or under the care of a nanny when compared to the usage of these two settings by preschoolers and school-age children. As Exhibit B-3 shows, 35 percent of children between the ages of 0 and 2 are in a family home and 11 percent are with a nanny. Just 8 percent of preschoolers are in a family home environment and 4 percent are with a nanny.

When asked why they chose their current paid child care arrangement, the most common responses were:

- The desire for an emphasis on child development or education;
- Convenience;
- Wanting an environment that promotes socializing;
- Reputation of the provider or referrals;
- The desire for a family or at-home environment; and
- Nothing else available.

Exhibit B-3.
Type of Child Care by Age in Boulder County

<table>
<thead>
<tr>
<th>Type of Child Care</th>
<th>Infants/toddlers</th>
<th>Preschoolers</th>
<th>School-age</th>
</tr>
</thead>
<tbody>
<tr>
<td>Child care center/preschool</td>
<td>46%</td>
<td>83%</td>
<td>23%</td>
</tr>
<tr>
<td>Family home</td>
<td>35%</td>
<td>13%</td>
<td>13%</td>
</tr>
<tr>
<td>Relative/friend/neighbor</td>
<td>7%</td>
<td>8%</td>
<td>47%</td>
</tr>
<tr>
<td>Nanny</td>
<td>1%</td>
<td>4%</td>
<td>2%</td>
</tr>
<tr>
<td>After school</td>
<td>11%</td>
<td>4%</td>
<td>4%</td>
</tr>
</tbody>
</table>

Note: Infants/toddlers are children from age 0-2; preschoolers are children from age 3-5; and school-age children are between the ages of 6 and 12.

Parents who wanted an emphasis on child development or education or who wanted an opportunity for their children to socialize typically chose a child care center or preschool setting. Eighty-eight percent of children whose parents wanted educational opportunities and 91 percent of children whose parents wanted socializing opportunities were in a child care center or preschool, as shown in Exhibit B-4. Parents who made their decision based on the desire for a family environment were more likely to have children in a family home setting or with a nanny.

**Exhibit B-4.**
**Reasons for Choosing Current Type of Care by Type of Care, Boulder County**

<table>
<thead>
<tr>
<th>Reason</th>
<th>Child Care Center/Preschool</th>
<th>Family Home</th>
<th>Family/Friend</th>
<th>Nanny</th>
<th>After-School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education</td>
<td>88%</td>
<td>3%</td>
<td>—</td>
<td>—</td>
<td>9%</td>
</tr>
<tr>
<td>Convenience</td>
<td>29%</td>
<td>10%</td>
<td>15%</td>
<td>10%</td>
<td>37%</td>
</tr>
<tr>
<td>Socializing</td>
<td>91%</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>9%</td>
</tr>
<tr>
<td>Reputation</td>
<td>62%</td>
<td>23%</td>
<td>8%</td>
<td>—</td>
<td>8%</td>
</tr>
<tr>
<td>Family environment</td>
<td>18%</td>
<td>46%</td>
<td>9%</td>
<td>27%</td>
<td>—</td>
</tr>
<tr>
<td>Only option</td>
<td>70%</td>
<td>20%</td>
<td>7%</td>
<td>—</td>
<td>3%</td>
</tr>
</tbody>
</table>

**Note:** Table should be read as follows: 88 percent of parents who chose their type of care because they wanted an educational setting chose a child care center or preschool. Source: Boulder County parent telephone survey, 2003.

How Much Time Do Children Spend in Paid Child Care?

According to the results of the telephone survey, almost one of every five children in paid child care is there for 40 hours a week or more. Exhibit B-5 shows that almost two-thirds of children are in paid child care for less than 20 hours a week. This includes school-age care, which is always part-time.

**Exhibit B-5.**
**Range of Hours for Children in Paid Child Care, Boulder County**

Appendix B: Boulder County Parent Survey Findings

In families utilizing paid child care, younger children tend to spend more time in care than do older children. As Exhibit B-6 shows, 29 percent of infants and toddlers are in care for fewer than 20 hours a week, versus 65 percent of preschoolers.

According to the survey, parents of children who are in care for longer periods of time tend to choose family home care or care by family and friends over child care centers or preschools. Exhibit B-7 shows that 35 percent of children in family homes are there for 40 hours a week or more, versus 19 percent of children in child care centers or preschools.

Exhibit B-6.
Range of Hours in Paid Child Care by Age, Boulder County

Exhibit B-7.
Relationship Between Type of Care and Range of Hours in Paid Care, Boulder County

Notes: Table should be read as follows: 19 percent of children in child care centers or preschools are there for 40 hours a week or more.

Appendix B: Boulder County Parent Survey Findings

How Does Paid Child Care Serve Working Parents?

Almost half of survey respondents indicated that a working adult in their household would have to stop working if paid child care were no longer available. In one of every four households, a working adult would have to reduce the number of hours worked each week. See Exhibit B-8.

Exhibit B-8.
Impact of Losing Paid Child Care, Boulder County

Almost half of survey respondents indicated that a working adult in their household would have to stop working if paid child care were no longer available. In one of every four households, a working adult would have to reduce the number of hours worked each week. See Exhibit B-8.

Exhibit B-8.
Impact of Losing Paid Child Care, Boulder County

While just 7 percent of Boulder County parents report that they have had to turn down a job or promotion because paid child care was inconsistent or unavailable, 23 percent say they have had to refuse overtime hours.

Exhibit B-9 describes the number of work days missed per year by parents because of inconsistent or unavailable child care. It is important to note that this does not include days missed because a child is sick. While just 10 percent of parents report missing 10 or more days a year due to inconsistent or unavailable child care, this 10 percent represents almost 3,700 households in Boulder County. In these households adults are missing a significant amount of work each year, two weeks worth, due to child care problems.

Exhibit B-9.
Annual Work Days Missed Because of Inconsistent/Unavailable Child Care, Boulder County