

2015 Delaware Local Child Care Market Rate Study

Final Report

for

*The Delaware Department of Health and Social Services,
Division of Social Services*

Submitted by Workplace Solutions
Reading, MA
May 2015

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2015 Delaware Local Child Care Market Rate Study

Executive Summary Report

for

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Division of Social Services*

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Reading, MA
May 2015

ACKNOWLEDGMENT

The following individuals and groups are acknowledged for their assistance with this study: The Delaware Division of Social Services especially Elaine Archangelo, Director of The Division of Social Services, for her assistance and support especially in encouraging providers to participate in the study; Thomas Hall, Division Project Coordinator for the 2015 rate study who provided ongoing guidance throughout the project. We also thank Children and Families First for assistance with the provider-sampling frame, and the Delaware Institute for Excellence in Early Childhood at the University of Delaware for assistance with communication to the provider community.

This study would not have been possible without the gracious cooperation of the many Delaware child care providers who took the time to participate in the interview and help with the study. Thank you all.

GENERAL FINDINGS OF THE 2015 STUDY

- The participation rates for the study reflects the providers willingness to help with the rate survey: 97% of center and school-age providers, and 77% of family child care providers.
- The daily market prices for full time care at the 75th percentile range from \$25 to \$53.36; part-day school-age prices at the 75th percentile range from \$13 to \$20.
- At the 75th percentile, the daily market prices for full-time family child care range from \$25 to \$35.
- At the 75th percentile, the daily market prices for full-time center care range from \$33.50 to \$53.36.
- Prices in center care are higher than prices in FCC for all the market segments.
- Full-time prices are highest, in general, for infant care and lowest for preschool-age care. (Only part-day school-age prices were reported.)
- At the 75th percentile, prices in New Castle County are higher than prices in Sussex County and Kent County.
- The 75th percentile FCC statewide price for odd-hour care is \$8.09/hour.

- In all, 34% of the providers interviewed reported having a child or children enrolled with special-needs. The majority of these providers reported that there were no additional costs to their program to serve these children.
- A majority of the providers interviewed (65%) had a child or children enrolled that were subsidized by Purchase of Care or Purchase of Care Plus.
- At the 75th percentile, the 2015 overall average increase in price since the 2013 study is 7% (averaging the change in all 24 market segments). This is not an annual increase but an increase over a two year period.
- At the 75th percentile, the 2015 overall average increase in price for center care is 8.7%, for FCC it is 5%.

SYNOPSIS OF RESULTS

- Prices are generally higher for center care, for younger children, and in New Castle County. Prices are generally lower for family child care, for older children, and in Sussex County and in Kent County.

OVERVIEW

The 2015 Delaware Child Care Market Rate Study was conducted to meet federal requirements of 45 Code of Federal Regulations Parts 98 & 99 to ensure that reimbursement rates allow subsidized low-income children equal access to early education and care. The goal of this Rate Study was to develop statistically credible information on the present market prices charged by licensed and exempt providers in Delaware. *“Market prices” are prices providers charge parents for the care of their private-paying children. They are non-discounted prices charged to unrelated and unaffiliated families.*

The Delaware Division of Social Services (the Division) contracted with the consulting firm Workplace Solutions, located in Reading Massachusetts, to undertake this study. The firm has conducted nine previous child-care market rate studies for the Division, including the 2013 study, and has substantial experience with these surveys. Workplace Solutions' consulting group consisted of a team of researchers including: Marie Sweeney (MBA, M.Ed.), Principal of Workplace Solutions; William Horrace (Ph.D., Economics, MBA Finance), Professor of Economics, Syracuse University; Ann Witte (Ph.D., Economics),

Professor Emeritus of Economics, Wellesley College; Christopher Parmeter, (Ph.D. Economics), Assistant Professor of Economics, University of Miami.

Project Manager Marie Sweeney worked closely with the Division's Project Coordinator Thomas Hall to plan and implement the study. Because of the importance of obtaining accurate pricing information, the study was carefully planned and executed. The Division and Workplace Solutions planned the study from November to January. Provider interviews were conducted from February to April. The researchers submitted the final report to the Division in May.

The following section describes the methodology for the Market Rate Study. This includes a description of the sample design, the survey, and the interviews in the field. The next section describes the findings of the survey including the range of prices at the 75th percentile, the 75th percentile prices by age of children, and the accuracy of the estimates of the 75th percentile prices for each market segment. The section contains estimates of both prices *charged* by Delaware providers (provider prices) and prices *paid* by Delaware families (purchase prices). To identify price trends, the section compares 2015 75th percentile prices with 2013 75th percentile prices as reported in the *2013 Local Child Care Market Rate Study* for the Delaware Department of Health and Human Services.

The final pages of the Executive Report (pg. 18) contains three tables presenting the 75th percentile prices for the center and family child care markets for 2015. Table A contains the full-time daily prices at the 75th percentile for family child care for Kent, Sussex and New Castle counties. It also contains the minimum price reported in the county (Min), the maximum price reported in the county (Max), and the number of private-paying prices used to determine the 75th percentile (n). Table B contains the family child care full-time daily prices at the 75th percentile for infant, toddler, and preschool-age care as well as part-day prices for school-age care. Table C contains the center full-time daily prices at the 75th percentile for infant, toddler, and preschool-age care as well as part-day prices for school-age care. Finally, page 19 contains two bar charts of the 75th percentile prices for the 24-market segments in the study. This allows for an easy comparison of prices among the various market segments.

METHODOLOGY

Workplace Solutions implemented the survey to obtain prices for private-paying children in care at the time of the study. The researchers selected a representative sample of providers throughout Delaware. These providers were subsequently interviewed by telephone. Utilizing the prices obtained from the interviews, researchers calculated the 75th percentiles of market prices for full-time infant, toddler, and preschool-age care and for part-day school-age care. Estimates of

the statistical precision of the 75th percentiles of market prices confirm that the 2015 Delaware market rate study achieved a high degree of precision.

The Sampling Frame

The sampling frame for the family child-care market consisted of Delaware's Office of Child Care Licensing's data of licensed family child care and large family child care providers as of January 2015, merged with Children and Families First's data for licensed family child care and large family child care providers. The sampling frame for the center and school-age market consisted of Delaware's Office of Child Care Licensing's data for licensed center and licensed school-age providers as of January 2015 and the Departments' list of license-exempt providers, merged with Children and Families First's data of licensed and exempt center and school-age providers. This comprehensive sampling frame allowed all listed providers in the state the opportunity to be selected for the rate study interview and greatly reduced the likelihood that any publicly available provider would be excluded from the study.

As part of the development of the sampling frame, Workplace Solutions and Children and Families First reviewed the center and school-age providers to delete providers that were outside the scope of the study. These included providers that only served a niche in the child care market (drop-in care), were not open to the general public (employer-supported programs only serving employees' children), provided services for free (4-H programs), or did not provide child-care services for the required timeframe (nursery schools). After eliminating these programs from the provider lists, the consultants determined that the total number of providers eligible for the study (the sampling frame) was 1120 providers. This sampling frame included 316 licensed and license-exempt center and school-age providers and 804 licensed family child-care and large family child-care providers.

The Sampling Plan

The researchers developed a Sampling Plan in order to collect child-care prices for various market segments in Delaware. The researchers planned the sample to equalize the accuracy with which the market percentiles were estimated for the center and for the family child care market segments.

The 2015 sample design built upon the design and results of Delaware's 2013 *Local Child Care Market Rate Study*. The 2013 sampling plan targeted all providers in the state that qualified for the study, and called for sampling 45% of these providers. During this 2015 design phase, the researchers determined that the

center sample would need to be increased to 50% of the center sampling frame in order to attain a high level of accuracy of the estimated 75th percentile of prices. The economists designed the sample for full-time care for centers and family child-care providers and for part-day care for school-age providers. The sample was segmented by:

- geographical regions (3)
- types of care (2)
- age categories (4)

Regions were the three counties in the state: Kent County, Sussex County, and New Castle County. The *types of care* were (1) center and school-age care and (2) family child care and large family child care. The *age-groupings* were infant, toddler, preschool age and school age. *Thus, based on three regions, two types of care and four age categories, there would be 24 market segments reported in the final analysis.*

The Selection of Providers

The economists selected providers at random from the sampling frame for each market segment. That is, they selected a separate random sample for each of the market segments or cells in the sample design, with each sample corresponding in size to the Sampling Plan. In all, the sample contained 520 providers: 362 family child-care providers and 158 center and school-age providers. Listed below is the number of providers selected for the sample, by type of care and county.

<u>FCC/LFCC</u>		<u>Center/School Age</u>	
Sussex	102	Sussex	30
Kent	102	Kent	28
New Castle	158	New Castle	100
TOTAL:	362	TOTAL:	158

The sample contained a wide range of providers throughout the state. These included: family child care providers, large family child care providers, centers serving all age categories, centers serving only one or two age categories, multi-site child care providers, centers that were part of a large national organization, school-age programs located in elementary schools, school-age programs that were part of a multi-age program, for profit programs and non-profit programs.

The researchers also selected providers for the sample that reported scarce types of care in 2013 (i.e., infant care, odd-hour care).

The Survey

The consultants utilized two surveys for the rate study, one for the center and school-age market and a second for the family child care and large family child care market. The surveys had been designed to collect comprehensive and accurate information about prices charged to private-paying families. Both surveys were designed to be easy for the providers yet enable the economists to address the complex pricing strategies of the Delaware provider community and the nuances of the market.

The *center survey* asked providers to quote their prices for:

- Private-paying infants enrolled full time
- Private-paying toddlers enrolled full time
- Private-paying preschool-age children enrolled full time
- Private-paying school-age children enrolled part-day, for less than 4 hours-per-day

The *family child-care survey* asked providers to quote individual prices for private-paying children in their care, since some FCC providers may not have a set rate by age category. Thus, the FCC survey was designed to collect:

- A price & age per-child, for up to eight private-paying children enrolled full time
- A price for a private-paying school-age child or children enrolled for part-day care (< 4 hours per day)

Odd-hour Care and Special Needs Care: The Division requested that information also be collected for odd-hour care and for special-needs care. For this study, odd-hour care is evening care, overnight care and weekend care. Thus the survey was designed to collect prices for odd-hour care as well as enrollment and cost information for children diagnosed with special-needs.

The Outreach Steps to Encourage Provider Participation

The Division and Workplace Solutions took various steps to encourage provider participation. These steps included written materials mailed to the providers and meetings with providers to explain the forthcoming rate study.

- All family child care providers and center-sample providers received an announcement letter from Elaine Archangelo, Director of the Division of Social Services. The Director's letter informed them of the forthcoming Market Rate telephone interview and encouraged providers to participate in the study. A simple worksheet was included with the letter to help the providers prepare for the interview.
- The Delaware Institute for Excellence in Early Care at the University of Delaware included an article about the forthcoming rate survey in its spring edition of *Provider Pursuits*.
- The Division and Workplace Solutions held Provider Information Sessions in two locations in the state. At these meetings Division Project Coordinator Thomas Hall and Workplace Solutions consultants Professor William Horrace and Marie Sweeney explained the purpose and scope of the rate study and answered providers' questions.

The Division mailed an announcement letter to all providers in the state to inform them of the forthcoming Information Sessions. The Division also included information about the rate study and the Information Sessions on its LISTSERV.

- The Division sent e-mails to FCC providers that could not be reached during the interviews in the field. This communication requested that the providers call the interview group to participate in the survey.

The Interviews

A professional interview group, Research America, was selected to conduct interviews. This group had conducted interviews for previous Delaware Child Care Market Rate Studies. Workplace Solutions also participated in the interviews. Interviews were conducted from February to April. The interviewers attempted to contact and interview all of the providers in the sample including many of the back-up sample providers that were added to the sample (e.g., all FCC back-up providers in Kent and Sussex were ultimately added to the sample). In all, 788 providers were called for the rate survey interviews. This represents 70% of the providers in the 2015 Delaware sampling frame.

RESULTS

The 2015 Delaware Local Child Care Market Rate Study results include: 426 providers reporting 1416 prices for private-paying children in their care; a high provider participation rate and low refusal rate; and a high level of accuracy in the estimation of the 75th percentile prices.

The Participation and Response Rates

Participation rates: The Survey obtained a 97% participation rate for the center and school-age providers and a 77% participation rate for the family child care providers. The rates represent the number of providers that agreed to participate in the survey when contacted. It includes the providers that qualified for the study and reported prices for private-paying children in their care. It also includes providers that agreed to participate but did not qualify for the study.

The Delaware participation rates show that the providers were very willing to participate in the study. These rates reflect the success of the Division's efforts to encourage provider participation in the rate survey and the gracious cooperation of the child care providers.

Response rates: The Survey obtained a 97% response rate for the center and school age providers and a 59% response rate* for the family child care providers. The response rate reflects the number of providers that agreed to participate in the survey when contacted and reported a price for a private-paying child or children actually enrolled in their program. The refusal rates for the study were quit low: 6% for the family child care sample providers and 1% for the center and school-age sample providers. (* Note: the sample size for the FCC providers was 362. The number of FCC providers that reported a price for a private-paying children in their care was 272 or 75% of the original sample size. The 59% response rate includes all of the sample and replacement providers that could not be reached. It is expected that some of these providers would not have been eligible for the interview or would no longer be providing services.)

The Analysis of the Data

The researchers converted prices obtained in the interviews into daily rates and then estimated the 75th percentiles of the distribution of daily prices for each market segment.

The 75th percentile price is such that 75% of the prices are at or below the price and 25% are above.

The three tables at the end of this Executive Summary present summary findings for all 24-market segments in the study (See pg. 18: Tables A-C). The bar charts on pg. 19 present an overview of the prices at the 75th percentile. In addition, the researchers submitted 10 tables of findings that are found at the end of the full report.

Accuracy of the Study

The goal of the 2015 Delaware Local Child Care Market Rate Survey was to develop statistically credible information on the 2015 market prices charged by child care providers in the state. The Survey met this goal since the researchers used a statistically valid methodology and the 2015 market prices for Delaware child care providers were estimated with a verifiable and high degree of precision.

The estimates of precision presented are the 95% confidence interval for the 75th percentile of prices. For the infant, toddler and preschool-age market segments for family child care markets, the 95% confidence interval is typically about plus or minus 5%-6% of the estimate. The range was higher for family child care for infants in Kent and Sussex counties. All of the Kent and Sussex family child care providers were ultimately included in the sample and called for the interview. There simply were not very many Kent and Sussex family child care providers that had private-paying infants in their care. To increase the accuracy of infant prices for Kent and Sussex counties, the researchers combined the prices for the two counties into one K&S infant cell. These cells had also been combined in previous Delaware market rate studies. This improved the level of accuracy for this market segment which is now in line with other full-time market segments.

To achieve a similar level of accuracy for the infant, toddler and preschool-age market segments for center market segments, the researchers combined the prices for Kent and Sussex counties in each age group. Infant and school-age care cells had been combined in previous Delaware rate studies. Again, the estimates of precision presented are the 95% confidence intervals for the 75th percentile of prices. The center intervals are typically about plus or minus 5%-7% of the estimate.

For school-age care, the 95% confidence interval is typically about plus or minus 6%-10% of the estimate. This is not because the confidence intervals are wider. It occurs because the prices are lower (this is not full-time care). The sampling design attempted to equalize accuracy in absolute terms, not percentage terms, across cells, so there is now a higher uncertainty in percentage terms when the prices are lower, as they are for school-age care. For centers, the Kent and Sussex school-age cells were combined into one K&S cell. This improved the level of

accuracy for the school-age prices at the 75th percentile for both Kent and for Sussex counties.

For all of the market segments in the study, the level of accuracy achieved would be considered a more than acceptable high level of statistical precision. The researchers stress that it is important not just that a high degree of precision was attained, but also that the study quantified how high a degree of precision was attained.

Range of Prices

Prices can vary widely in the state, by over 100% among different segments of the market. At the 75th percentile, results of the study reveal that the daily market prices for full-time care range from \$25 to \$53.36. Part-day school-age prices range from \$13 to \$20.

Child care prices are lower for family child care than for centers. For example, the 75th percentile of prices for FCC full-time infant care in Kent County is \$30 and is \$40 in center care. The 75th percentile of prices for full-time toddler care in New Castle County is \$35 in family child care and \$47.30 in center care.

75th Percentile Prices by County

Prices vary by geographic region in Delaware. For center and family child care, prices are higher in New Castle County than in Kent County and Sussex County. Prices at the 75th percentile are the same or similar for Kent and Sussex market segments.

For *center care*, Sussex and Kent center prices have been combined to improve the level of accuracy at the 75th percentile and thus these percentile prices are the same for infant through school-age care. Kent/Sussex prices at the 75th percentile range from \$16.50 to \$40.00. For New Castle center care, prices at the 75th percentile range from \$20.00 to \$53.36.

For *family child care*, Kent and Sussex prices are similar or the same. Kent and Sussex infant prices have been combined to improve the level of accuracy at the 75th percentile. As with center care, New Castle prices at the 75th percentile are higher than Kent and Sussex prices. However the price disparity between New Castle and Kent and Sussex is less for family child care than for center care.

75th Percentile of Prices by Age of Children

The 75th percentile prices for full-time care in centers decreases as the age of the child increases. For example, for center infant care in Sussex, the 75th percentile price is \$40 per day while the 75th percentile price for preschool-age care is \$33.50 per day. This is also true for family child care: in Sussex County the 75th percentile price for infant care is \$30.00 per day and for preschool-age care is \$25 per day. The exception to this is family child care in New Castle for infant and toddler care. The 75th percentile price for both is \$35 per day.

School-age Children

For this study, school-age providers reported only prices for part-day care for less than four-hours per day. In all, the study obtained 181 prices for part-day school-age care from providers who had private-paying school-age children enrolled for less than four hours per day. At the 75th percentile, school-age care in centers is higher priced than in family child care homes. For example, the 75th percentile price in New Castle for part-day school-age care in centers is \$20 and in FCC care it is \$15.

Family Child Care

In all, 272 family child care providers reported 993 prices for private-paying care for infant through school-age children. These providers reported 903 prices for full-time care for infants, toddlers, and preschool-age children and 90 prices for part-day care for school-age children. At the 75th percentile, full-time FCC daily prices range from \$25 to \$35 depending on the age category and the county. Part-day school-age prices at the 75th percentile range from \$13 to \$15 for care for less than four hours per day.

Center Child Care

In all, 154 child-care center and school-age providers participated in the rate study interviews and reported 423 prices for the care of private-paying children. These providers reported 332 prices for full-time care for infants, toddlers, and preschool-age children and 91 prices for part-day care for school-age children. Full-time daily prices at the 75th percentile range from \$33.50 to \$53.36, depending on the age category and the county. Part-day school-age prices at the 75th percentile range from \$16.50 to \$20 for care of less than four hours per day.

Prices Paid by Delaware's Families (Purchase Prices)

The price estimates reported to this point are calculated from the prices *charged* by providers. The Division requested that the researchers also calculate prices that reflect actual child care *purchases* being made by families in Delaware. These are the prices paid by Delaware families. To obtain these prices, the researchers weighted the 75th percentile prices by the number of private-paying children reported for each age category. Thus, if a provider reported that they had a private-paying toddler in their care, the toddler price was weighted by the number of private-paying toddlers in the provider's program. These prices are referred to as weighted or *purchase prices* and reflect all market transactions by private-paying families. In general, weighted prices (purchase prices) are higher than the provider prices (charged prices) by an average of 4%.

For center care, weighted prices are higher than the provider prices by an average of 5%. Thus Delaware families are purchasing more care from higher priced center providers. As an example of center providers and weighted prices, the daily price at the 75th percentile *charged* by New Castle center providers for toddler care is \$47.30; weighted per private-paying children it is \$53.58. This represents the purchase price paid at the 75th percentile by New Castle parents purchasing toddler center care. For center care, nine of the market segments are higher for purchase prices, two are the same price for provider prices and purchase prices, and for one market segment (NC SA) the purchase price is lower than the provider (charged) price at the 75th percentile.

For FCC providers, the weighted or purchase prices are higher than the provider prices for 4 market segments and are the same for 8 market segments. On average, purchase prices among all 12 FCC cells are 1% higher than provider prices. For FCC school-age care, the purchase price and the provider price at the 75th percentile is the same for Kent, Sussex and New Castle counties.

Odd-Hour Care

FCC providers reported 13 prices for odd-hour care they had recently provided to private-paying children. For family child care, the 75th percentile state-wide price for odd-hour care is \$8.09/hour. There were insufficient center odd-hour prices reported to determine a 75th percentile price.

Special-Needs Care

In all, 34% of providers interviewed indicated that they were serving a child or children in their program that had been diagnosed with special-needs. Of the center providers, 68% reported that they were serving a child or children with special needs. For family child care providers, only 14% reported that they were currently providing services to a child diagnosed with special needs.

In all, 79% of the providers in the study who had a child or children enrolled with special needs reported that there were no additional costs incurred to serve these children. Thus, the vast majority of providers who were serving children with special needs reported that there were no additional costs for them to serve these children.

The Division requested that the researchers also conduct a *differential analysis* to determine if providers who were serving children with special needs charged higher prices than providers who had no children enrolled with special needs. This is to determine if providers who had children enrolled with special needs pass along possible higher costs for serving these children to all of the children in their care. To determine this, the economists compared the prices charged by providers who had children enrolled with special needs to the prices charged by providers who had no children enrolled with special needs. Based on the analysis, it does not appear to be the case, in general, that Delaware providers that serve children diagnosed with special needs charge higher prices than other providers to offset any possible higher costs associated with serving children with special needs. The exception to this is Kent/Sussex full-time center care. For Kent/Sussex full-time center care, there is a statistical difference in price between providers that had children enrolled with special needs and providers that did not.

Special needs findings: Thus the vast majority of providers who had children with special needs enrolled reported that there were no additional costs to have these children in their program. In addition, the differential analysis did not, in general, support the hypothesis that most providers who had children enrolled with special needs were passing along possible higher costs to their total enrollment of children. Kent/Sussex full-time center care is the exception to this.

The Impact of POC and POC Plus on the Child Care Market

As part of the study, the survey asked providers to report the number of children enrolled at their site at the time of the interview. They were next asked if they had any children enrolled that were subsidized through Purchase of Care or Purchase of Care Plus. For those that replied “yes”, they were asked how many

of their enrolled children were subsidized by Purchase of Care or Purchase of Care Plus.

In reviewing the information provided, it becomes apparent that the state-subsidized program has a major impact on the child care market in Delaware. A majority of the providers interviewed (65%) had some or many children enrolled that were subsidized by Purchase of Care or Purchase of Care Plus.

Change in Prices Since the 2013 Market Rate Study

Note: Percentage changes quoted in this section are for the two-year period between 2013 and 2015. They are not percentage changes on an annual basis. Overall, there has been a 7% increase in prices since 2013 (averaging the changes in prices of all 24 market segments). In reviewing the changes for the total market (Center and FCC), toddler care has the largest overall average age-category increase (8%) among the 24 cells.

Center Change in Prices: For center care there has been an overall 8.7% average increase in price at the 75th percentile since the 2013 study (averaging the change in all 12 center cells).

FCC Change in Prices: For FCC there has been a 5% average increase in prices at the 75th percentile since 2013 (averaging the change in all 12 FCC cells).

Observation: The overall average price increase among all the 24 market segments, between 2013 and 2015, is 7%. The overall average price increase among all the 24 market segments, between 2011 and 2013, was 3%.

Detailed Findings (Tables A, B, C)

Tables A, B and C below provide detailed information regarding full-time infant, toddler and preschool-age daily prices and part-day prices for school-age care. The tables contain, for each cell: 1.) cell definition; 2.) population size N, estimated population of providers of this type of care; 3.) n, number of private-price observations utilized to develop the percentiles; 4.) the maximum price reported for the cell; 5.) the minimum price reported for the cell; 5.) the 75th percentile prices (75th ile).

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Table A. Family Child Care - 75thile Prices

County	N	n	Max	Min	75 th ile
Kent, ITP	**	139	36.00	16.00	28.00
NC, ITP	**	210	50.00	10.00	35.00
Sussex, ITP	**	142	37.50	10.00	27.00

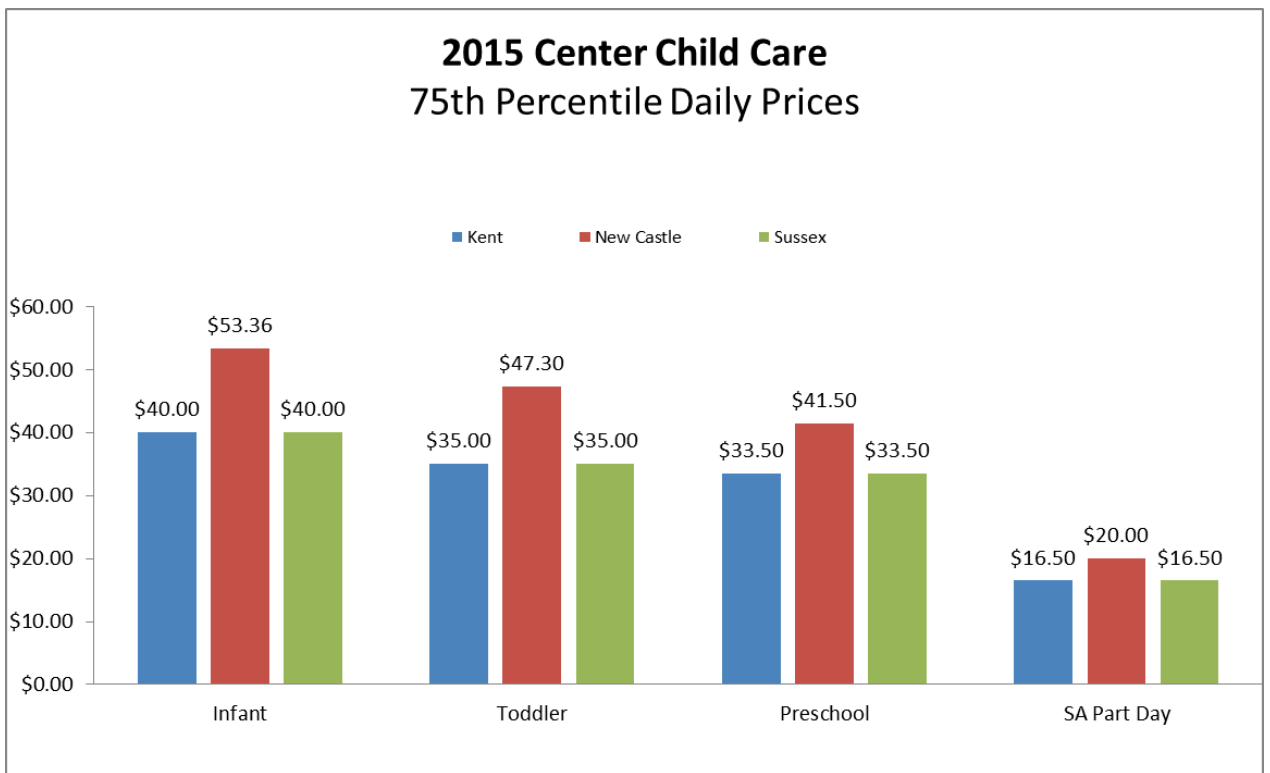
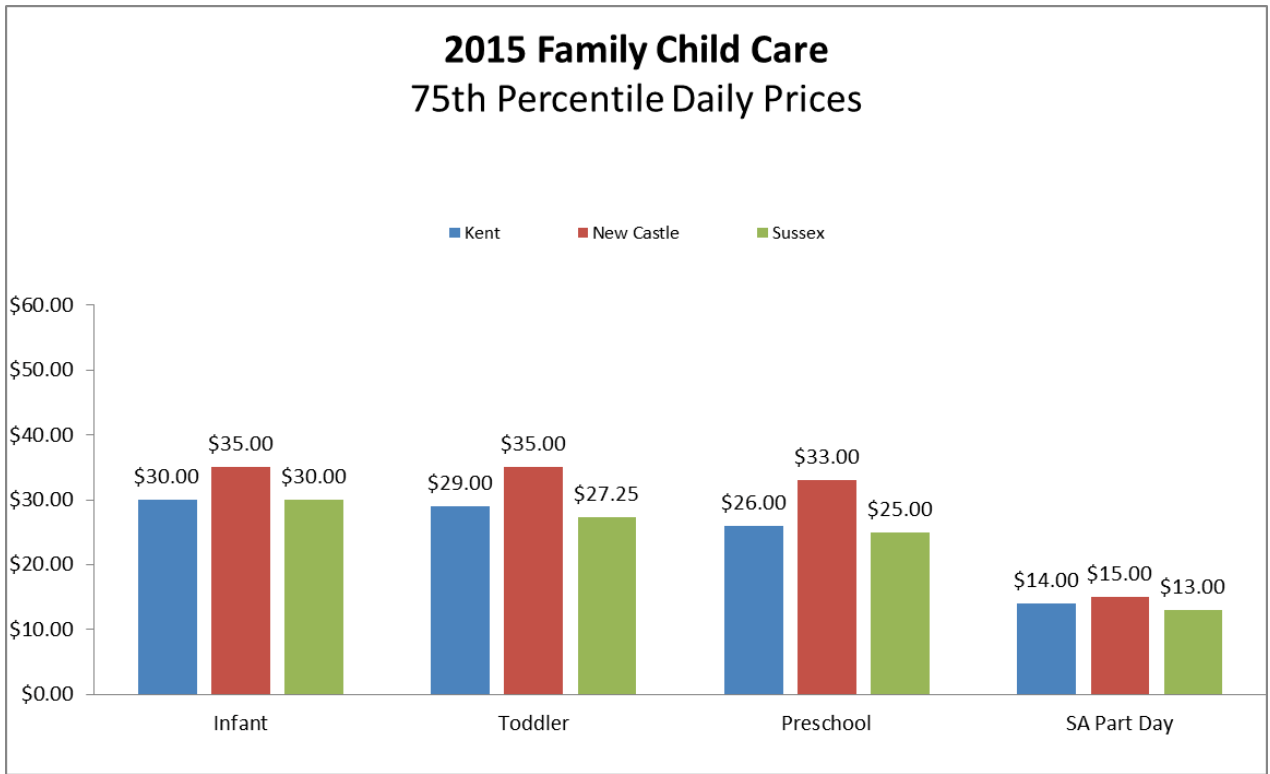
Table B. Family Child Care - 75thile Prices by Age

County	Type	N	n	Max	Min	75 th ile
Kent & Sussex	INF	**	57	36.00	15.00	30.00
Kent	TOD	**	52	35.00	18.00	29.00
Kent	PS	**	58	34.00	16.00	26.00
Kent	SA	**	28	20.00	5.00	14.00
New Castle	INF	**	42	42.00	18.00	35.00
New Castle	TOD	**	91	50.00	18.00	35.00
New Castle	PS	**	77	50.00	10.00	33.00
New Castle	SA	**	31	18.00	7.00	15.00
Sussex & Kent	INF	**	57	36.00	15.00	30.00
Sussex	TOD	**	51	37.50	17.00	27.25
Sussex	PS	**	63	35.00	10.00	25.00
Sussex	SA	**	31	17.00	5.00	13.00

Table C. Child Care Centers - 75thile Prices

County	Type	N	n	Max	Min	75 th ile
Kent & Sussex	INF	59	34	50.00	26.00	40.00
Kent & Sussex	TOD	89	41	46.00	20.00	35.00
Kent & Sussex	PS	107	50	44.60	20.00	33.50
Kent & Sussex	SA	96	38	23.00	6.00	16.50
New Castle	INF	134	55	66.51	29.00	53.36
New Castle	TOD	175	70	72.80	24.00	47.30
New Castle	PS	195	82	72.80	24.00	41.50
New Castle	SA	161	53	30.40	7.00	20.00
Sussex & Kent	INF	59	34	50.00	26.00	40.00
Sussex & Kent	TOD	89	41	46.00	20.00	35.00
Sussex & Kent	PS	107	50	44.60	20.00	33.50
Sussex & Kent	SA	96	38	23.00	6.00	16.50

Prices are daily, full-time private-paying rates except for School Age (SA), which is part day (< 4 hours per day.) ITP = Infant, Toddler and Preschool-age Care. INF = Infant Care, TOD = Toddler Care, PS = Preschool-age Care, SA = School-age Care. N = estimated population of providers of this type of care. ** Population size treated as unknown. n = number of private-prices utilized to develop the 75th percentiles. Max = maximum price reported. Min. = minimum price reported. 75thile = 75th percentile price.



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PART 1: RESULTS OF THE STUDY

GENERAL FINDINGS

- The vast majority of providers contacted for the study agreed to participate in the interview (83%). Few refused to participate in the study (5%).
- The daily market prices for full time care at the 75th percentile range from \$25 to \$53.36; part-day school-age prices range from \$13 to \$20.
- At the 75th percentile, the daily market prices for full-time family child care range from \$25 to \$35.
- At the 75th percentile, the daily market prices for full-time center care range from \$33.50 to \$53.36.
- At the 75th percentile, the daily market prices for part-day school-age care in family child care range from \$13 to \$15.
- At the 75th percentile, the daily market prices for part-day school-age care in center care range from \$16.50 to \$20.
- 75th percentile prices in center care are higher than 75th percentile prices in family child care in all market segments.
- Full-time prices, in general, are higher for infant care and lower for preschool-age care. (Only part-day school-age prices were reported.)
- At the 75th percentile, prices in New Castle County are higher than prices in Sussex County and Kent County.
- The 75th percentile FCC state-wide price for odd-hour care is \$8.09/hour.
- In all, 34% of the providers interviewed reported having a child or children diagnosed with special-needs enrolled in their program. The majority of these providers (79%) reported that there were no additional costs to serve these children.
- A majority of the providers interviewed (65%) had some or many children enrolled that were subsidized by Purchase of Care or Purchase of Care Plus.

- At the 75th percentile, the overall average price increase among the 24 market segments was 7%. This was determined by averaging the price changes, since the 2013 rate study, for infant, toddler, preschool-age and school-age care for all three counties. For center care, the overall average increase is 8.7%; for FCC care it is 5%.
- Sussex County had the largest price increase overall for center care (15%) averaging the price changes for infant, toddler, preschool-age and school-age care.
- New Castle County had the largest price increase overall for family child care (6%) averaging the price changes of infant, toddler, preschool-age and school-age care.
- The study attained a high degree of precision of the estimates, as well as a quantification of the precision of estimates that are in accord with standard statistical practice.

SYNOPSIS OF RESULTS

Prices are generally higher for center care, for younger children, and in New Castle County. Prices are generally lower for family child care, for older children, and in Sussex County and in Kent County.

OVERVIEW

The goal of the 2015 Delaware Local Child Care Market Rate Survey was to develop statistically credible information of the present market prices charged by providers in Delaware and to provide confidence intervals that indicate the accuracy of the estimated percentiles. "Market prices" are prices providers charge parents for the care of private-paying children. They are prices charged by the providers to unrelated and unaffiliated parents that have not been reduced for special circumstances (e.g., low-income, employees children, etc.).

The Delaware Division of Social Services planned to utilize the information obtained from the survey to inform state decisions regarding reimbursement rates for child care services purchased by the state. Information from the study would help ensure that reimbursement rates allow subsidized low-income children equal access to early education and care. This survey complies with federal requirements of 45 Code of Federal Regulations for conducting a child care market rate survey (45 Code of Federal Regulations Sections 98 & 99, referring to "Equal Access").

The Delaware Division of Social Services (the Division) contracted with the consulting firm Workplace Solutions, located in Reading Massachusetts, to undertake this study. Workplace Solutions had conducted nine previous child care rate studies for the Division (from the 1996 market rate study to the 2013 market rate study), and has significant theoretical and field experience with these studies in Delaware and in other states. Workplace Solutions' consulting group consisted of a team of researchers including: Marie Sweeney (MBA, M.Ed.), Principal of Workplace Solutions; William Horrace (Ph.D., Economics, MBA Finance), Professor of Economics, Syracuse University; Ann Witte (Ph.D., Economics), Professor Emeritus of Economics, Wellesley College; Christopher Parmeter (Ph.D., Economics), Assistant Professor of Economics, University of Miami.

Project Manager Marie Sweeney worked closely with the Division's Project Coordinator Thomas Hall to plan and implement the study. The need for accurate pricing information for policy purposes meant that the study had to be carefully planned and executed. The Division and Workplace Solutions planned the study from November to January. Interviews were conducted from February to April. Workplace Solutions submitted the final estimates of the 75th percentile prices to the Division in May 2015.

The outline of the report follows. The following section describes the findings of the survey including: estimates of the 75th percentiles of prices by age group and county; full-time and part-day prices; family child care and center prices; provider and purchase prices; odd-hour care and care for children with special needs.

The final 75th percentile price estimates are included in 10 tables (see pages 45-52). The final tables present: (1) the 75th percentiles of prices, including comparisons of the distribution of prices charged by providers ("provider prices"), (2), the distribution of prices paid by Delaware families ("weighted" or purchase prices), and (3) a study of the costs and prices associated with the care of children with special needs. This section also provides the estimates of the accuracy of the 75th percentiles of prices reported in the study.

The Appendix includes a description of the methodology used for the Market Rate Survey. This includes the development of the sample frame; a description of the sampling plan, the sample selection and the survey; provider outreach steps and the interviews conducted in the field. It also includes a description of how the data were analyzed. The Appendix concludes with: (1) the Response Rates, Participation Rates, Refusal Rates and Obsolescence Rates; (2) the Sampling Design Report; (3) outreach materials used in communication to the provider community; (4) the surveys.

The 2015 Delaware Child Care Market Rate Study results reflect: the 75th percentile of prices estimated with a high level of accuracy; a high provider participation rate (83%) and a low refusal rate (5%); and providers reporting 1416 prices for private-paying children currently in care.

Prices Throughout the State

Pages 45-52 contain 10 tables presenting the results of the 2015 Child Care Market Rate Study. Table 1, 2, and 3 report the 75th percentile prices for the full-time daily rates for infant, toddler and preschool-age center care and family child care throughout the state. These tables also report the 75th percentile prices for part-day school-age care for children throughout the state. Table 4 presents the 75th percentile for the FCC state-wide hourly rate for odd-hour care. These tables present a 95% confidence interval for provider prices that allow one to assess the accuracy with which the 75th percentiles have been estimated. One can be 95% confident that the 75th percentile lies within these confidence intervals.

Tables 5 through 8 present the findings of the special-needs study. Tables 9 and 10 present the prices for the daily rates for center care and for family child care throughout the state, as well as the prices 'weighted' by the number of reported private-paying children in each age category. These are prices paid by private-paying families in Delaware and are considered to be *purchase prices*. They are different from the prices generally discussed in the report, which are the prices *charged* by the providers ('provider prices').

Tables 1, 2 and 3 contain, for each cell: 1.) cell definition; 2.) population size N , where known. N was unknown for family child care providers, and so it was taken to be infinity in equation (1) in the Sampling Design for the sampling variance. This is a conservative approach that yields wider confidence intervals than if N were known; 3.) n = number of price observations utilized to develop the percentiles; 4.) the maximum price reported for the cell; 5.) the minimum price reported for the cell; 6.) the sample 75th percentile price; 7.) the standard error of the sample 75th percentile price, from Sheather-Jones bandwidth choice rule and Epanechnikov kernel; 8.) kernel-based 95% confidence interval; 9.) nonparametric 95% confidence interval, based on the hypergeometric distribution when N is known, and on the binomial distribution when N is not known. The researchers recommend that the parametric (kernel-based) confidence intervals be used when the sample size (n) is greater than or equal to 40 and that the nonparametric intervals be used when the sample size is less than 40.

Full-Time Care

"Full time" care in this study refers to a daily price for a full week, 30 hours or more per week and at least 6 hours per day. Daily prices for full-time care at the 75th percentile are reported for center child care and family child care for infant, toddler and preschool-age children. The study obtained 1235 full-time prices used to calculate the 75th percentile prices. The range of prices reported by the Delaware providers for full-time care is \$10.00/day to \$72.80/day. (Note: these are not prices at the 75th percentile.)

Part-Day Care

"Part-day" care for this study refers to care for *less than 4 hours per day* for school-age children. This can be for 'after-school' care or for 'before-school' care or for 'before & after-school' care. Part-day school-age prices at the 75th percentile are reported for center care and for family child care. The study obtained 181 part-day prices used to calculate the 75th percentiles of school-age prices. The range of part-day prices reported by Delaware providers of school-age care is \$5.00 to \$30.40. (Note: these are not prices at the 75th percentile.)

The Range of 75th Percentile Prices

The 75th percentiles of prices, including confidence intervals and standard errors, are reported in Tables 1-10 of this report. At the 75th percentiles, results of the study reveal that the market price* for full-time care range from \$25.00 per day to \$53.36 per day. *Thus, full-time prices can vary widely in the state, by over 100% among different segments of the market.* The 75th percentiles of prices for part-day school-age care range from \$13.00 to \$20.00. (*Prices discussed in this section are unweighted provider prices. 'Weighted' or purchase prices are discussed later in the report.)

The 75th Percentiles of Prices by Age of Child

The 75th percentile of daily market prices of full-time care in centers decreases as the age of the child increases. For example, for center infant care in Kent, the 75th percentile price is \$40.00 per day, the toddler price is \$35.00 per day and the preschool-age price is \$33.50 per day. This is also true for family child care: in Sussex County, infant care is \$30.00 per day, toddler care is \$27.25 per day, and preschool-age care is \$25.00 per day. The exception to this is family child care in New Castle County for infant and toddler care. Both are \$35 per day at the 75th percentile.

At the 75th percentile, for full-time center care and for full-time family child care, infant care is generally the highest priced care.

**75th Percentiles of Prices:
Full-Time Center Care
in Sussex County**

Infant care	\$40.00/day
Toddler care	\$35.00/day
Preschool-age care	\$33.50/day

School-age Care

For this study, providers reported school-age prices only for *part-day* care for less than four hours per day. Since the reported prices for these children are for part-day care and for older children, they are the lowest priced care in the study.

At the 75th percentile, part-day school-age care in centers is higher priced than in family child care. For example, Kent County part-day school-age center care is \$16.50 compared to \$14 for part-day school-age family child care.

Part-day* School-age Care at the 75th Percentiles

	Family Child Care	Center Care
Kent	\$14.00	\$16.50
New Castle	\$15.00	\$20.00
Sussex	\$13.00	\$16.50

* less than 4 hours per day

The 75th Percentiles of Prices by County

Prices vary by geographic region in Delaware. For center and family child care, prices are higher in New Castle County than in Kent County and Sussex County. Prices in New Castle are higher for all of the market segments (type of care and

age categories). Prices at the 75th percentiles are very similar or the same for Kent and Sussex market segments.

For *center care*, Sussex and Kent cells have been combined at the 75th percentile for infant, toddler, preschool and school-age market segments. This increased the level of accuracy of the estimated 75th percentile prices. New Castle prices are higher than Sussex/Kent prices for all four age categories.

For *family child care*, Kent and Sussex prices at the 75th percentile are the same or very similar. As with center care, Kent and Sussex FCC infant cells have been combined to improve the level of accuracy of the estimated 75th percentile price. Kent prices at the 75th percentile for toddler through school-age care are slightly higher than Sussex County prices. New Castle prices at the 75th percentiles are higher for all four center market segments. However the price disparity between New Castle and Kent and Sussex counties is less for family child care than for center care.

For family child care there is approximately a 40% price difference for full-time care between the lowest priced FCC full-time care at the 75th percentile (\$25) and the highest priced full-time care (\$35) at the 75th percentile. For center care, there is approximately a 59% price difference for full-time care between the lowest priced full-time care at the 75th percentile (\$33.50) and the highest priced full-time care at the 75th percentile (\$53.36).

<i>Selected 75th Percentiles of Prices Per County</i>			
	<i>Sussex</i>	<i>New Castle</i>	<i>Kent</i>
Centers			
Infants	40.00	53.36	40.00
Preschool	33.50	41.50	33.50
	<i>Sussex</i>	<i>New Castle</i>	<i>Kent</i>
FCC			
Infants	30.00	35.00	30.00
Preschool	25.00	33.00	26.00

Family Child Care Prices

In all, 272 family child-care providers quoted prices for private-paying children in their care. The family child care providers reported 993 prices for private-paying children. This includes 903 prices for full-time care and 90 prices for part-day school-age care. Thus 33% of the FCC respondents provided care for at least one private-paying school-age child at the time of the interview.

The FCC respondents reported prices for approximately three private-paying children that were attending their program full time (average). For FCC providers who were serving private-paying school-age children, they generally had two such school-age children enrolled part day (average). The median number of private-paying children enrolled was 6 (full-time and part day).

The vast majority of the prices reported were weekly rates. FCC providers also quoted hourly prices, daily prices, and monthly prices. The researchers used the prices for development of the 75th percentiles of prices. In order to obtain these prices, all of the sample providers and many of the back-up replacement sample providers were called by the interviewers. In all, 612 FCC sample and replacement-sample providers were called for the rate study interview. This is 76% of the FCC sampling frame. The range of full-time daily prices reported by these providers was \$10.00 to \$50.00. The range of part-day school-age prices was \$5.00 to \$20.00.

The 75th percentile full-time price for Kent County for *combined* infant, toddler and preschool-age care (ITP) is \$28.00/day. For Sussex County it is \$27.00 for combined infant, toddler and preschool age care (ITP). For New Castle it is \$35.00/day. The 75th percentiles of prices are also reported for full-time family child care by age groupings for each county. At the 75th percentiles, FCC full-time daily prices by age category range from \$25.00 to \$35.00. Part-day school-age care at the 75th percentile range from \$13.00 to \$15.00.

To improve the level of accuracy of FCC infant care at the 75th percentile for Kent and Sussex Counties, these cells were combined into one K&S infant cell (\$30/day). These infant cells had also been combined in previous market rate studies. For full-time infant care, the 75th percentile prices range from \$30/day to \$35/day, depending upon the county. For full-time toddler care, the 75th percentile prices range from \$27.25 to \$35.00. For full-time preschool-age care, the 75th percentile prices range from \$25.00 to \$33. For part day school-age care, the 75th percentile prices range from \$13 to \$15.

In general, infant care is the highest priced full-time care* and preschool-age care is the lowest priced. New Castle County has the highest priced care for all age categories. (* New Castle County infant and toddler care are the same: \$35/day).

Center Child Care Prices

In all, 154 child-care center and school-age providers participated in the rate study and reported prices for private-paying children in their care. These providers reported 332 prices for full-time care for infants, toddlers, and preschool-age children, as well as 91 part-day school-age prices. In all, they reported 89 infant prices, 111 toddler prices, 132 preschool-age prices and 91 school-age prices.

The range of enrolled children was 12 to 275. On average, centers had 81 children enrolled. The median number of enrolled children was 70. On average centers had 46 private-paying children enrolled at the time of the interview.

Centers generally reported prices for 32 private-paying children enrolled full time (average). For Sussex County, they reported prices for 29 private-paying children enrolled full time (average). New Castle County averaged 30 and Kent County averaged of 40 private-paying children enrolled full time. For those centers with school-age children enrolled, they generally reported a price for 14 private-paying school-age children enrolled part-day (average).

The vast majority of these prices were quoted as weekly rates. Center providers also quoted hourly rates, daily rates, monthly rates and school-year rates. The range of full-time daily prices reported by these providers is \$20 to \$72.80. The range of part-day school-age prices reported is \$6.00 to \$30.40.

Rates at the 75th Percentile: The 75th percentiles of prices are reported for center care by age category for each county in Delaware. Sussex and Kent center prices have been combined to improve the level of accuracy at the 75th percentile and thus the these percentile prices are the same for infant through school-age care. Full-time daily prices at the 75th percentiles range from \$33.50 to \$53.36, depending on the age category and the county. Thus the range in price for full time center care is much greater than the range in price for full-time FCC providers. Part-day school-age prices at the 75th percentile range from \$16.50 to \$20.00, depending upon the county.

For full-time center care, the 75th percentiles for the daily-market prices for infant care range from \$40.00 to \$53.36. For full-time toddler care, the daily prices at the 75th percentiles range from \$35.00 to \$47.30. For full-time preschool-age care, the daily prices at the 75th percentiles range from \$33.50 to \$41.50. For part-day school-age care, the daily prices at the 75th percentiles range from \$16.50 to \$20.00. New Castle County has the highest priced care at the 75th percentile for all age categories.

The 75th Percentiles of Prices and Types of Care

At the 75th percentiles, the price of care is lower for family child care than for center care for all age categories for each county (see below). For some county/age-categories there is a smaller price difference (Kent and Sussex school-age: FCC is \$14/day, center care is \$16.50/day.) For other county/age categories the price difference is greater between family child care and center care (New Castle infants: FCC \$35/day, Center \$53.36/day).

2015 Daily Rates at the 75th Percentiles

	<i>Centers</i>	<i>FCC</i>
Infant		
Kent	\$40.00	\$30.00
Sussex	\$40.00	\$30.00
New Castle	\$53.36	\$35.00
Toddler		
Kent	\$35.00	\$29.00
Sussex	\$35.00	\$27.25
New Castle	\$47.30	\$35.00
Preschool age		
Kent	\$33.50	\$26.00
Sussex	\$33.50	\$25.00
New Castle	\$41.50	\$33.00
School age**		
Kent	\$16.50	\$14.00
Sussex	\$16.50	\$13.00
New Castle	\$20.00	\$15.00

** part-day

Comparing the FCC results with the center results, it is apparent that the prices for family child care are lower and less variable than prices for center care. The greatest overall difference between FCC prices and center prices at the 75th percentiles occurs in New Castle County. The range in New Castle County price differences, between FCC prices and center prices at the 75th percentile, is 26% to 52% depending upon the age category. For infant, toddler, and school-age care,

the greatest difference between FCC and center care occurs in New Castle County. For preschool-age care, the greatest difference occurs in Sussex County. In reviewing the price differences for all of the counties, infant care has the greatest overall *age-category* price difference between family child care and center care prices.

Prices Paid by Delaware's Families (Purchase Prices)

The Delaware 2015 Local Child Care Market Rate Study provides a snapshot of what providers are *charging* at the 75th percentiles and the price at which parents are *purchasing* their child care services. The Division and Workplace Solutions determined that 'weighted' prices would reflect actual child care *purchases* being made by families in Delaware. To obtain these prices, the researchers weighted the 75th percentile prices by the number of private-paying children reported for each age category. These prices are referred to as 'weighted' prices and reflect all market transactions by private-paying parents.

Up to this point, the prices generally discussed in this report have been prices *charged* by the providers for the private-paying children in their care. Weighted prices are reported separately. Throughout this study, Workplace Solutions planned and implemented the research methodology to estimate provider prices and weighted prices. This report concentrates on the standard 75th percentiles of provider prices, but also presents the estimates of the 75th percentiles of weighted prices. All prices referenced in this report are provider prices unless specified as 'weighted' prices or 'purchase' prices.

Calculation of Provider Prices

To calculate the 'provider' price, consider an example of full-time toddler care in centers. Each center respondent who has at least one full-time private-paying toddler enrolled reports their rate for full-time private-paying toddlers. Thus any sample provider who has any number of private-paying toddlers enrolled full-time reports one full-time toddler rate. All of the respondent providers who report a price for this toddler care have their price counted once in determining the toddler 75th percentile 'provider' price (the price *charged*). A provider with two private-paying toddlers enrolled full time is given as much emphasis as a provider with 14 private-paying toddlers enrolled full time. Each of these providers has their full-time toddler rate counted once in determining the 75th percentile (provider) price, since the researchers are determining what a provider is *charging*.

Calculation of Weighted Prices (Purchase Prices)

Another way to look at prices is to *weight* 'provider price' by the number of private-paying toddlers enrolled at the time of the interview. So, to determine the weighted prices, a provider with two private-paying toddlers enrolled full time actually has their price for this toddler care counted twice (weighted by their number of private-paying toddlers enrolled full time) and a provider who has 14 private-paying toddlers enrolled full time has their price counted 14 times (weighted by their number of full-time private-paying toddlers). Using weighted prices allows one to estimate the prices at which private-paying parents are actually *purchasing* the care. If the weighted prices are higher, this tells one that the private-paying parents are purchasing more care from the programs charging above the 75th percentile provider prices (more private-paying children are enrolled in the higher priced programs) and/or that the larger providers are charging above the 75th percentiles of provider prices.

Purchase Prices for the 2015 Study

Overall, the weighted or purchase prices are higher than provider prices by an average of 4% (averaging all 24 market segments in the study). The purchase prices for center care are higher than the provider prices for 9 of the 12 center market segments (all six toddler and preschool-age cells, two school-age cells, and one infant cell). For one market segment, the weighted price is lower than the provider price (New Castle School-age care).

An example of a cell with a higher weighted price is New Castle infant care: the daily price at the 75th percentile *charged* by New Castle center providers for infant care is \$53.36 and the purchase price/weighted price for private-paying children is \$59.17. For center care, these weighted/purchase prices are higher than the provider prices by an overall average of 5%. The price differences between provider and purchase prices range from -10% to 15% for various center market segments. Preschool-age care has the greatest price difference, averaging the price difference for preschool-age care in Kent, Sussex and New Castle counties. Thus for center care, it may be that some private-paying parents are selecting higher priced care for their children and/or that the larger programs are charging above the 75th percentiles of provider prices.

For FCC providers, the purchase prices are higher than the provider prices for four of the market segments, and are the same for eight market segments. The purchase prices are higher than the provider prices by an overall average of 1%. The price differences between provider and purchase prices, for the four cells with a price difference, range from 3% to 4% for family child care. Only toddler and preschool-age market segments have any difference between provider prices and weighted prices. (See Appendix: Tables 9 & 10 'Provider

Prices' and 'Purchase' Prices).

Thus, there is a greater difference in prices between provider (charged) prices and weighted (purchase) prices for center care than for family child care.

<i>Selected 75th Percentiles of Provider Prices and Purchase Prices</i>		
	Provider Prices <i>(charged)</i>	Weighted Prices <i>(purchased)</i>
Centers		
NC Toddlers	\$47.30	\$53.58
K School-age	\$16.50	\$18.00
FCC		
S Infants	\$30.00	\$30.00
NC Preschool	\$33.00	\$34.00

Odd-Hour Care

The Division requested that the researchers report 75th percentiles of prices for odd-hour care. Odd-hour care includes evening care, overnight care and weekend care, for example:

- Evening care:** care during any evening hours, for example from 8 P.M. to 11 P.M.
- Overnight care:** care for any overnight hours, for example 11 P.M. to 6 A.M.
- Weekend care** Saturday care, Sunday care, or Saturday through Sunday care

As part of the survey, providers were asked if they had provided odd-hour care within the past month for any private-paying child and received a payment for that care. FCC providers reported 13 prices for types of odd-hour care. The most frequently reported odd-hour care was evening care (9), then weekend care (4). No overnight-care prices were reported. This was not sufficient to allow for development of price percentiles for all three categories of odd-hour care. It also was not sufficient to allow for development of prices by county. Instead, the researchers developed a FCC state-wide 75th percentile of price for one category: "odd-hour" care. Since only one center providers reported offering odd-hour care, no odd-hour 75th percentile prices are reported for center/school-age care. The state-wide 75th percentile of prices for FCC odd-hour care is \$8.09/hour. The range of odd-hour prices reported is \$1.67 per hour to \$18.33 per hour.

FCC ODD-HOUR CARE

	<i>75th percentile</i>	<i>Range</i>
State-wide	\$8.09/hour	\$1.67-\$18.33/ hour

Care for Children with Special Needs

As part of the survey, providers were asked:

Are you presently serving any child with special needs in your program, private paying or state subsidized? For this survey, "special needs" means a child from infancy through 18 years of age who is diagnosed with physical, emotional, or developmental needs requiring special care." [PROBE: "any" child with special needs can be private paying or state-subsidized child, and can be full time or part time."]

In all, 34% of providers interviewed indicated that they were serving a child or children with special-needs in their program. Of the center providers, 68% reported that they were serving a child or children diagnosed with special needs. For family child care providers, only 14% reported that they were currently providing services to a child diagnosed with special needs.

Additional Costs of Serving Children with Special Needs

The survey asked the providers about any *additional costs* for serving children that had been diagnosed with special needs. Because of the American's With Disabilities Act (ADA), providers in general cannot charge higher prices for children with special needs. Although providers could not charge higher prices, the Division wanted to know *if it actually costs the providers more* to serve these children. Providers who reported that they did have a child or children diagnosed with special needs in their program were asked:

Are there any additional costs to you for serving this child or children with special needs? [PROBE: Does it cost you more to have the child or children diagnosed with special needs in your program than to have the other children in your program?]

In all, 79% of the providers in the study who reported serving a child or children with special needs also reported that there were no additional costs incurred to serve these children. Of providers who answered this question, 82% of the FCC providers and 78% of the center/SA providers reported that there were no additional costs to serve children with special needs. Thus, the vast majority of providers who were serving children with special needs stated that there were no additional costs for them to serve these children.

A total of 21% (30) of providers who were serving children with special needs reported that there were additional costs to have these children in their program. The average additional cost they reported was 13.6% (Centers 14%, FCC 12%). Table 5 & 6 reports the breakdown of providers responding to these questions.

Pricing Differential Analysis

The Division requested that the researchers also conduct a *differential analysis* to determine if providers who were serving children with special needs charged higher prices overall than providers who had no children enrolled with special needs. Because of the American's With Disabilities Act (ADA), providers in general cannot charge higher prices for children with special needs. They can, however, charge higher prices to all of the children enrolled to off-set any higher costs for serving these children with special needs, or they can absorb the higher costs themselves if they do occur.

To determine this, the researchers compared the prices charged by providers who had children with special needs enrolled, in relation to the prices charged by providers who had no children enrolled with special needs. Therefore, the

researchers sought to determine whether a *price differential* existed between the following two categories of providers:

Providers serving children that had been diagnosed with special needs and serving children that had not been diagnosed with special needs. (SNC)

Providers who had no children enrolled that had been diagnosed with special needs (RC)

To determine if a statistically significant price difference existed between these two categories of providers, the researchers calculated the 75th percentile of prices, by cell, of these two groups (SNC, RC). If a statistically significant difference in price did exist, this would support the hypothesis that SNC providers were passing along (possible) additional costs for serving children with special needs to all of the children in their program. The researchers utilized the information collected from all of the providers to conduct this analysis.

In determining a pricing differential, the researchers were not only interested in calculating a price differential but also determining whether or not the reported differential was significantly different from zero (was the difference statistically significant). To do this, the researchers needed to derive 75th percentile prices, standard errors and confidence intervals for providers serving children with special needs (SNC) and for providers who had no children enrolled that had been diagnosed with special needs (RC). The prices provided the numerical basis for the differential while the standard errors allowed the consultants to consider if the differentials are meaningful in a statistical sense.

For the 2015 study, the researchers developed two sets of differentials: (1) one for full-time care (infant, toddler, and preschool care), and (2) one for part-day care (school-age care). The 75th percentiles of prices were reported for the following 20 cells: (1) New Castle ITP (SNC) center, (2) New Castle ITP (RC) center, (3) Kent & Sussex ITP (SNC) center, (4) Kent & Sussex ITP (RC) center, (5) New Castle SA (SNC) center, (6) New Castle SA (RC) center, (7) Kent & Sussex SA (SNC) center, (8) Kent & Sussex SA (RC) center, (9) Kent ITP (SNC) family child care, (10) Kent ITP (RC) family child care, (11) New Castle ITP (SNC) family child care, (12) New Castle ITP (RC) family child care, (13) Sussex ITP (SNC) family child care, (14) Sussex ITP (RC) family child care, (15) Kent SA (SNC) family child care, (16) Kent SA (RC) family child care, (17) New Castle SA (SNC) family child care, (18) New Castle SA (RC) family child care, (19) Sussex SA (SNC) family child care, (20) Sussex SA (RC) family child care. (ITP = infant, toddler, and preschool full-time care; SA = part-day school-age care. SNC = providers serving a child/children diagnosed with special needs as well as children who

had not been diagnosed with special needs. RC = no children enrolled who had been diagnosed with special needs.)

Results of the Differential Analysis

The results of this analysis are presented in Tables 7 and 8 (see pages 50-51). There is generally no statistically significant difference in prices between providers who serve children with special needs (SNC) and those who do not (RC). More specifically, the asymptotically normal test statistic indicates that the SNC differential is always statistically insignificant (95% level). The exception is Kent & Sussex, ITP, centers that had a statistically significant differential of \$4.40. Therefore, it appears that the full time prices in Kent/Sussex center care that have special-needs children enrolled are \$4.40 higher per day than full-time prices in centers in Kent/Sussex that have no children enrolled that have special needs.

When the economists compared the prices actually charged by providers that do and do not serve children with special needs, they found no clear pattern. In five of the cells providers that served children with special needs charged higher prices, in two they charged the same prices, and in three they charged lower prices. These differences were rarely large and were always insignificant except in Kent & Sussex centers, full time care. In this case, the Kent & Sussex center providers with special-needs children enrolled charged higher prices. In general it does not appear to be the case that Delaware providers that serve children with special needs charge higher prices than other providers to offset any higher costs associated with serving children with special needs. It is not known whether providers absorb any higher costs themselves, although in the question to these providers about higher costs for serving these children, the vast majority stated that there were no higher costs for serving these children.

Special needs findings: Thus the vast majority of providers who had children with special needs enrolled reported that there were no additional costs to have these children in their program. In addition, the differential analysis did not generally support the hypothesis that providers who had children enrolled with special needs were passing along possible higher costs to their total enrollment of children. The exception to this is Kent/Sussex center full-time care.

Change in Prices Since the 2013 Market Rate Study

To identify price trends, 2015 prices are compared with 2013 prices as reported in the *2013 Local Child Care Market Rate Study*. Percentage changes quoted in this section are for the two-year period between 2013 and 2015. They are not

percentage changes on an annual basis. All changes in prices noted are prices at the 75th percentile. Note: Age-category and county-percentage changes are generally rounded to the nearest whole number.

The 2015 prices for child care in Delaware have increased for a majority of the market segments since the last rate study in 2013. In both the 2015 and the 2013 study there were 24 market segments or cells. Examples of a market segment include New Castle Center toddler care and Sussex FCC infant care. Based on the 2015 study, the prices at the 75th percentile have increased for 20 of the 24 market segments.

Overall, there has been a 7% increase in prices since 2013 (averaging the change in prices of all 24 market segments). In those 20 market segments for which the prices increased since 2013, the increases range from 1% to 20%. For three of the market segments the prices have stayed the same as in 2013 (FCC NC SA, FCC S SA, Center NC SA). In reviewing the combined center and family child care changes by age category, the toddler-age category had the greatest overall average price increase (8%) of the center/FCC age category cells.

Center Change in Prices

For center care overall there has been an 8.7% average increase in price at the 75th percentile since the 2013 study (averaging the change in all 12 center cells). Sussex County had the largest overall average increase in price among the three counties (15%), averaging the changes in infant, toddler, preschool-age and school-age prices since 2013. Kent County had an overall 12% average increase, and New Castle County had an overall 2% average increase in price. Sussex County and Kent County had an increase in price for all four age categories. New Castle County had an increase in price for two of the four age categories.

In all, there is an increase in price for 10 of the 12 market segments. The average increase in price among the 10 cells with an increase is 10.7%. For one market segment the price has decreased since 2013 (NC Preschool: - 2%). The range of price changes among the 12 center cells is: - 2% (NC PS) to 20% (S PS). The smallest increase is for New Castle toddler care (3%).

School-age care had the largest overall average age-category increase in center care prices (10%). Infant care and preschool-age care had a 9% increase in prices, and toddler care had an 8% increase in price.

FCC Change in Prices

Overall there was a 5% average increase in prices at the 75th percentile since 2013 (averaging the change in all 12 FCC cells). New Castle County had the largest

overall increase for family child care among the three counties (6%), averaging the changes in prices at the 75th percentile in infant, toddler, preschool and school-age care. Sussex County and Kent County had an overall average increase of 4%. Kent County had an increase in all four age categories. New Castle and Sussex had an increase in three age categories.

In all, there is an increase in price in 10 of the 12 market segments. The average increase in price among the 10 cells with an increase is 5.5%. The range of price changes is 1% (K PS) to 9% (NC PS, S Tod). For two market segments, the 2015 and the 2013 prices are the same (NC SA and S SA). Toddler care had the largest overall age-category increase (7%). Preschool-age care had an average 5% increase, infant care had an average 4% increase, and school-age care had an average 2% increase.

NOTE: for school-age care in Center and FCC settings, three of the six market segments had the same 75th percentile price in 2015 as in 2013. These were FCC NC , FCC S and Center NC.

Observation: The overall average price increase among the 24 market segments, between 2013 and 2015, is 7%. The overall average price increase among the 24 market segments, between 2011 and 2013, was 3%. The overall average price increase between 2009 and 2011 was 5.6%. These are price increases covering two year periods, not annual increases.

For the 2015 study, the overall average price change among the 24 market segments is 7%. The inflation rate between May 2013 and May 2015 is 5.3% (Determined using the CPI Tables for “Child Care and Nursery School” from the Consumer Price Index website (<http://www.bls.gov/cpi>). Bureau of Labor Statistics, United States Department of Labor.)

The Impact of POC and POC Plus on the Child Care Market

As part of the study, the survey asked providers to report the number of children enrolled at their site at the time of the interview. They were next asked if they had any children enrolled that were subsidized through Purchase of Care or Purchase of Care Plus. For those that replied “yes”, they were asked how many of their enrolled children were subsidized by either Purchase of Care or Purchase of Care Plus.

In reviewing the information provided by these questions, it becomes apparent that the state-subsidized program has a major impact on the child care market in Delaware. A majority of the providers interviewed (65%) had some or many

children enrolled that were subsidized by Purchase of Care or Purchase of Care Plus.

Centers: The range of children enrolled at centers was 12 children to 275 children. The average enrollment was 81 children. The median number of enrolled children was 70. In all, 87% of the center respondents had a subsidized child or children enrolled. Among providers that had subsidized children enrolled, the range of subsidized children was 2 to 230 children. The average number of subsidized children enrolled in center programs was 35. The average number of subsidized children in center programs by county, was: Kent (34), New Castle (36), and Sussex (31).

Family Child Care: The range of children enrolled by the FCC providers was 1 to 29. Approximately half of the 272 FCC respondents (53%) had a subsidized child or children enrolled at the time of the interview. Among providers that had subsidized children enrolled, the range of subsidized children was 1 to 25. The median enrollment of the FCC providers was 6 children (full-time and part-day). For FCC provider with some number of subsidized children enrolled, the median number of subsidized children was 3; by county it was: Kent (3), New Castle (3), and Sussex (4).

The Participation Rates and Response Rates

Participation Rates

The overall participation rate for the study was 83%. The participation rate for the center providers was 97%; for FCC providers it was 77%. These rates represent the number of providers that, when contacted for the interview, agreed to participate in the study. It includes providers that qualified for the study and reported prices for private-paying children in their care. It also includes providers that agreed to participate but did not qualify for the study (e.g., provider with all subsidized children, providers that served children for free, etc.). In all, 70% of the providers in the sampling frame were ultimately included in the final sample, as sample and replacement sample.

Response Rates

A 97% response rate was obtained for the center/school-age interviews, a 59%* was obtained for the FCC interviews. The overall response rate was 70%. The *response rate* is the percent of sample providers participating in the survey and reporting prices for private-paying children in their care. In all, 426 providers reported prices for private-paying children in their care. (* Note: the

sample size for the FCC providers was 362. In all, 272 FCC providers reported private prices, which is 75% of the original sample size. The 59% response rate includes all of the sample and replacement providers that could not be reached. Some percentage of these providers that could not be reached would not have been eligible for the interview or would have closed their business.)

The Delaware participation rates and response rates show that the providers were very willing to participate in the study. These rates reflect the success of the Division's efforts to encourage provider participation in the rate survey and the gracious cooperation of the child care providers.

Refusal Rates and Obsolescence Rates

The refusal rate for the study was quite low: 5%. In all, 6% of the family child care providers and 1% of the center/school-age providers refused to participate in the study. The *refusal rate* is the percent of sample providers that refused to participate in the survey when contacted, divided by the total number of eligible providers in the sample.

The obsolescence rate was 4% for the study. The FCC obsolescence rate was 5%, for the centers it was 2%. The obsolescence rate is the percent of providers that, when contacted for the survey, reported that they were no longer providing child care services.

Calculation of Response Rates

The researchers determined the response rate by dividing the number of completed interviews by the total number of providers in the sample that had not been removed from the sample. Therefore, to determine the response rate, the number of providers that completed an interview and reported private prices was divided by the total number of providers with the following dispositions: completed interview, mid-interview terminate, refusal, busy phone, answering machine, no response. Providers with the following dispositions were not included in the denominator when determining the response rates since these providers were removed from the sample and replaced with back-up sample (if back-up sample available): no longer in the child care business; all subsidized children; in an 'excluded' category of providers; no private-paying children enrolled for the required timeframes; disconnected phone; computer/fax tone; wrong number; duplicate; language problem; and privacy block on phone.

Accuracy of the Study

The goal of the 2015 Local Child Care Market Rate Study was to develop statistically credible information on the 2015 market prices charged by child care providers in the state. The Rate Study met this goal since the researchers used a statistically valid methodology and the 2015 market prices for Delaware child care providers were estimated with a verifiable and high degree of precision.

The estimates of precision presented are the 95% confidence intervals for the 75th percentile of prices. For the infant, toddler and preschool-age market segments for family child care markets, the 95% confidence interval is typically about plus or minus 5%-6% of the estimate. The range was higher for family child care for infants in Kent and Sussex counties. There simply were not very many Kent and Sussex family child care providers who had private-paying infants in their care. To increase the accuracy of infant prices for Kent and Sussex counties, the researchers combined the prices for the two counties into one K&S infant cell. These cells had also been combined in previous Delaware market rate studies. This improved the level of accuracy so that the accuracy for this market segment is now in line with the other full-time family child care market segments.

To achieve a similar level of accuracy for the infant, toddler and preschool-age market segments for center child care markets, the researchers combined the prices for Kent and Sussex counties in each age group. For infant and school-age care these cells had been combined in previous Delaware child care market rate studies. Again, the estimates of precision presented are the 95% confidence intervals for the 75th percentile of prices. The intervals are typically about plus or minus 5%-7% of the estimate.

For school-age care, the 95% confidence interval is typically about plus or minus 6%-10% of the estimate. This is not because the confidence intervals are wider. It occurs because the prices are lower (this is not full-time care). The sampling design attempted to equalize accuracy in absolute terms, not percentage terms across cells, so there is now a higher uncertainty in percentage terms when the prices are lower, as they are for school-age care. For centers, the Kent and Sussex school-age cells were combined into one K&S cell. This improved the level of accuracy for the center school-age prices at the 75th percentile in both Kent and Sussex counties.

For all of the market segments in the study, the level of accuracy achieved would be considered a more than acceptable high level of statistical precision. The researchers stress that it is not just a high degree of precision that was attained, but also that the study quantified how high a degree of precision was attained.

A second goal of the study set by Workplace Solutions was to equalize the standard errors of estimation across counties and age groups for full-time infant, toddler, preschool-age & part-day school-age care for centers, and to equalize the standard errors of estimation across counties for full-time infant family child-care (see *Sampling Plan Report* in Appendix). The standard errors actually achieved differed from those planned because price variability and response rates (expected yield rates) could not be predicted perfectly in advance. However, the standard errors actually achieved were generally quite close to those planned. The standard errors for both center care and for family child care reflect a high degree of accuracy in the estimation of price percentiles (see Tables 1-3 below).

75th Percentiles of Prices

Delaware 2015 Child Care Rate Study

Table 1. Family Child Care Daily Rates - 75%ile and Confidence Intervals

							Parametric	Non-Parametric
Region	N	n	Max	Min	75%ile	Std Err	Conf. Int.	Conf. Int.
K, ITP	**	139	36.00	16.00	28.00	0.6657	[26.70, 29.30]	[27.00, 30.00]
NC, ITP	**	210	50.00	10.00	35.00	0.5317	[33.96, 36.04]	[34.00, 35.00]
S, ITP	**	142	37.50	10.00	27.00	0.4816	[26.06, 27.94]	[26.00, 28.00]

Table 2. Family Child Care Daily Rates Per Age - 75%ile & Confidence Intervals

								Parametric	Non-Parametric
Region	Type	N	N	Max	Min	75%ile	Std Err	Conf. Int.	Conf. Int.
K&S	INF	**	57	36.00	15.00	30.00	0.7810	[28.47, 31.53]	[28.00, 30.00]
K	TOD	**	52	35.00	18.00	29.00	0.9511	[27.14, 30.86]	[27.00, 30.50]
K	PS	**	58	34.00	16.00	26.00	0.5094	[25.00, 27.00]	[25.00, 30.00]
K	SA	**	28	20.00	5.00	14.00	0.6900	[12.65, 15.35]	[12.00, 15.00]
NC	INF	**	42	42.00	18.00	35.00	0.7880	[33.46, 36.54]	[34.00, 39.00]
NC	TOD	**	91	50.00	18.00	35.00	0.6440	[33.74, 36.26]	[34.00, 36.00]
NC	PS	**	77	50.00	10.00	33.00	0.8443	[31.35, 34.65]	[32.00, 35.00]
NC	SA	**	31	18.00	7.00	15.00	0.4735	[14.07, 15.93]	[14.40, 17.00]
S&K	INF	**	57	36.00	15.00	30.00	0.7810	[28.47, 31.53]	[28.00, 30.00]
S	TOD	**	51	37.50	17.00	27.25	0.8561	[25.57, 28.93]	[26.00, 30.00]
S	PS	**	63	35.00	10.00	25.00	0.4570	[24.10, 25.90]	[25.00, 28.00]
S	SA	**	31	17.00	5.00	13.00	0.2930	[12.43, 13.57]	[12.00, 15.00]

Prices are daily, full time rates except for School age (SA) which is part-day care (less than 4 hours per day).

** N = Population size treated as unknown. n = number of prices, based on the median price per age category. We recommend use of non-parametric confidence intervals for $n < 40$, and the use of the parametric confidence intervals based on standard errors for $n \geq 40$.

Tables contain only prices for private paying children (no Purchase of Care prices or Purchase of Care Plus prices).

K = Kent County, NC = New Castle County, S = Sussex County.

INF = Infant Family Child Care, TOD = Toddler Family Child Care, PS = Preschool Family Child Care, SA = School age Family Child Care. ITP = Infant, Toddler, and Preschool Child Care.

K&S, S&K: Kent & Sussex Infant cells are combined in Table 2 to improve their level of accuracy (standard errors). K ITP cell in Table 1 contains no S INF data, while in Table 2 K INF and S INF are combined. S ITP cell in Table 1 contains no K INF data, while in Table 2 S INF and K INF are combined.

75%ile = 75th Percentile

Delaware 2015 Child Care Rate Study

Table 3. Child Care Centers Daily Rates - 75%ile and Confidence Intervals

Region	Type	N	N	Max	Min	75%ile	Std Err	Parametric Conf. Int.	Non-Parametric Conf. Int.
K&S	I	59	34	50.00	26.00	40.00	1.3153	[37.42, 42.58]	[37.00, 48.00]
K&S	T	89	41	46.00	20.00	35.00	0.8732	[33.29, 36.71]	[34.00, 37.00]
K&S	PS	107	50	44.60	20.00	33.50	0.8706	[31.79, 35.21]	[32.00, 35.60]
K&S	SA	96	38	23.00	6.00	16.50	0.5745	[15.37, 17.63]	[15.00, 18.00]
NC	I	134	55	66.51	29.00	53.36	1.6996	[50.02, 56.69]	[50.00, 59.17]
NC	T	175	70	72.80	24.00	47.30	1.7429	[43.88, 50.72]	[44.00, 53.58]
NC	PS	195	82	72.80	24.00	41.50	1.3238	[38.91, 44.09]	[40.00, 47.40]
NC	SA	161	53	30.40	7.00	20.00	1.0772	[17.89, 22.11]	[17.40, 22.00]
S&K	I	59	34	50.00	26.00	40.00	1.3153	[37.42, 42.58]	[37.00, 48.00]
S&K	T	89	41	46.00	20.00	35.00	0.8732	[33.29, 36.71]	[34.00, 37.00]
S&K	PS	107	50	44.60	20.00	33.50	0.8706	[31.79, 35.21]	[32.00, 35.60]
S&K	SA	96	38	23.00	6.00	16.50	0.5745	[15.37, 17.63]	[15.00, 18.00]

Prices are daily, full time rates except for School age (SA) which is part-day care (less than 4 hours per day).

Tables contain only prices for private paying children (no Purchase of Care prices or Purchase of Care Plus prices).

N = number of providers in the Delaware sampling frame providing this care

n = number of prices obtained from survey respondents.

We recommend the use of non-parametric confidence intervals for $n < 40$, and the use of the parametric confidence intervals based on standard errors for $n \geq 40$.

I = Infant Child Care Centers, T = Toddler Child Care Centers, PS = Preschool Child Care Centers, SA = School-age Child Care Centers.

K = Kent County, NC = New Castle County, S = Sussex County.

K&S, S&K: Kent & Sussex Infant, Toddler, Preschool and School age cells are combined in Table 3 to improve their level of accuracy (standard errors).

75%ile = 75th Percentile

Delaware 2015 Child Care Rate Study

**Table 4. Family Child Care Odd-Hour Care Hourly Rates
- 75%ile and Confidence Intervals**

							Parametric	Non-Parametric
Region	N	n	Max	Min	75%ile	Std Err	Conf. Int.	Conf. Int.
State	**	13	18.33	1.67	8.09	3.861	[0.52, 15.66]	[4.00, 18.33]

Prices are for hourly rates

Table contains only prices for private paying children (no Purchase of Care prices or Purchase of Care Plus prices).

** N = Population size treated as unknown.

n = number of prices obtained from survey respondents.

We recommend use of non-parametric confidence intervals for $n < 40$, and the use of the parametric confidence intervals based on standard errors for $n \geq 40$.

There were insufficient center odd-hour care prices reported to determine a 75th percentile, so all observations are for odd-hour care reported by family child care providers.

State = Entire State of Delaware.

75%ile = 75th Percentile

Delaware 2015 Child Care Rate Study

Table 5. Centers, Special Needs Care, and Costs by County

Cell	Number of Providers Responding To Survey Question	Number of SNC Providers	Are there any additional costs to you in caring for these children with SN?		Average Higher Cost of SNC (Estimated)
			No	Yes	
K, CTR	27	15 (56%)	13 (87%)	2 (13%)	8%
NC, CTR	97	67 (69%)	53 (79%)	14 (21%)	16%
S, CTR	30	22 (73%)	15 (68%)	7 (32%)	12%
Total, CTR	154	104 (68%)	81 (78%)	23 (22%)	14%

Table 6. Family Child Care, Special Needs Care, and Costs by County

Cell	Number of Providers Responding to Survey Question	Number of SNC Providers	Are there any additional costs to you in caring for these children with SN?		Average Higher Cost of SNC (Estimated)
			No	Yes	
K, FCC	68	11 (16%)	9 (82%)	2 (18%)	20%
NC, FCC	118	17 (14%)	12 (71%)	5 (29%)	10%
S, FCC	86	11 (13%)	11 (100%)	0 (0%)	--
Total, FCC	272	39 (14%)	32 (82%)	7 (18%)	12%

K = Kent County, NC = New Castle County, S = Sussex County.
 FCC = Family Child Care, CTR = Child Care Centers.

SNC = special needs care. SN = special needs

Special Needs Care (SNC) providers = Answered "yes" to serving children with special needs. Note: Some providers did not respond to the special needs questions.

Note: A small numbers of providers may not respond to the question "Are there any additional costs to you in caring for these children with SN (special needs)." Therefore, the sum of respondents answering "Yes" and "No" may not equal the entry in the "Number of SNC Providers" column in the tables.

Average Higher Cost of SNC (Estimated) = providers who reported serving children with special needs and who reported that it did cost their program more to serve these children. These providers then estimated their percentage of a higher cost for serving these children.

Delaware 2015 Child Care Rate Study

Table 7. Special Needs Care - 75%ile and Confidence Intervals

Cell	Type	N	n	Max	Min	75%ile	Std Err	Parametric Conf. Int.	Non-Parametric Conf. Int.
K&S, ITP, SNC	CTR	**	85	50.00	20.00	37.00	1.0429	[34.96, 39.04]	[35.60, 41.00]
K&S, ITP, RC	CTR	**	40	38.00	24.00	32.60	0.9140	[30.81, 34.39]	[30.00, 34.00]
NC, ITP, SNC	CTR	**	144	72.80	26.00	47.00	1.3462	[44.36, 49.64]	[45.00, 50.00]
NC, ITP, RC	CTR	**	63	66.51	24.00	50.91	2.3617	[46.28, 55.54]	[46.00, 56.12]
K&S, SA, SNC	CTR	**	24	23.00	10.00	17.00	1.0213	[15.00, 19.00]	[15.00, 20.40]
K&S, SA, RC	CTR	**	14	18.00	6.00	16.00	1.1396	[13.77, 18.23]	[13.00, 18.00]
NC, SA, SNC	CTR	**	38	30.40	10.00	20.50	1.3219	[17.91, 23.09]	[18.00, 22.20]
NC, SA, RC	CTR	**	15	28.00	7.00	16.72	1.4420	[13.90, 19.55]	[15.00, 28.00]
K, ITP, SNC	FCC	**	22	36.00	20.00	30.00	1.8062	[26.46, 33.54]	[25.00, 34.50]
K, ITP, RC	FCC	**	117	35.00	16.00	28.00	0.6178	[26.79, 29.21]	[27.00, 30.00]
NC, ITP, SNC	FCC	**	29	37.00	18.00	34.00	0.9485	[32.14, 35.86]	[33.00, 36.00]
NC, ITP, RC	FCC	**	181	50.00	10.00	35.00	0.5905	[33.84, 36.16]	[33.00, 36.00]
S, ITP, SNC	FCC	**	15	32.00	10.00	27.75	1.6677	[24.48, 31.02]	[26.00, 32.00]
S, ITP, RC	FCC	**	127	37.50	13.00	27.00	0.5282	[25.96, 28.04]	[26.00, 28.00]
K, SA, SNC	FCC	**	6	14.00	9.00	13.00	1.4216	[10.21, 15.79]	[9.00, ***]
K, SA, RC	FCC	**	22	20.00	5.00	14.50	0.8362	[12.86, 16.14]	[12.00, 16.00]
NC, SA, SNC	FCC	**	7	17.00	9.00	15.00	1.0301	[12.98, 17.02]	[13.00, ***]
NC, SA, RC	FCC	**	24	18.00	7.00	15.00	0.6262	[13.77, 16.23]	[14.00, 17.00]
S, SA, SNC	FCC	**	4	15.00	9.00	13.00	1.1419	[10.76, 15.24]	[9.00, ***]
S, SA, RC	FCC	**	27	17.00	5.00	13.00	0.2890	[12.42, 13.58]	[12.00, 13.00]

** Population size treated as unknown.

*** Non-parametric upper bound undefined. 97.5% lower bound provided.

Prices are daily, full time rates except for School age (SA), which is part day care (less than 4 hours per day). Tables contain only prices for private-paying children (no Purchase of Care prices or Purchase of Care Plus prices).

K = Kent County, NC = New Castle County, S = Sussex County, SNC = Special Needs Care, RC = Regular Care, FCC = Family Child Care, CTR = Center Child Care.
ITP = Infants, Toddlers, and Preschool Child Care. SA = School-Age Child Care.
K&S = combined cells.

Special Needs Care program = Answered "yes" to having children with special needs enrolled. Regular Care program = Answered "no" to children with special needs enrolled.

We recommend use of non-parametric confidence intervals for $n < 40$, and the use of the parametric confidence intervals based on standard errors for $n \geq 40$.

Note: A small numbers of providers did not respond to the special needs questions. Therefore, the countywide totals here may not equal the countywide totals reported elsewhere in this report.

Delaware 2015 Child Care Rate Study

Table 8. Special Needs Care Differentials and Conversion Factors

Cell Definition	SNC Differential	SNC Conversion Factor *	Statistically Significant? ***
K&S, ITP, CTR	4.40	1.1350	Y
NC, ITP, CTR	-3.91	0.9232	N
K&S, SA, CTR	1.00	1.0625	N
NC, SA, CTR	3.78	1.2261	N
K, ITP, FCC	2.00	1.0714	N
NC, ITP, FCC	-1.00	0.9714	N
S, ITP, FCC	0.75	1.0278	N
K, SA, FCC	-1.50	0.8966	N
NC, SA, FCC	0.00	1.0000	N
S, SA, FCC	0.00	1.0000	N

* SNC differential is SNC price minus RC price. SNC conversion is SNC price divided by RC price. To convert RC prices to SNC prices, multiply RC price by the conversion factor. For example, if the RC 75thile price in NC, ITP, FCC is \$35.00, then the SNC price is $\$35.00 \times 0.9232 = \34.00 .

*** Asymptotically normal test statistics (95% level) indicate that the SNC differential was always insignificant except for Center Infant-Toddler-Preschool Age care in Kent and Sussex County.

K = Kent County, NC = New Castle County, S = Sussex County

SNC = Special Needs Care, RC = Regular Care

FCC = Family Child Care, CTR = Center Child Care

ITP = Infants, Toddlers, and Preschool Child Care; SA = School Age Child Care

Special Needs Care program = Answered "yes" to having children with special needs enrolled. Regular Care program = Answered "no" to children with special needs enrolled.

Note: Some providers did not respond to the special needs questions.

K&S = combined cells.

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Table 9. Family Child Care - Per Provider and Weighted 75%ile Prices

		Per Provider	Weighted*
Region	Type	75%ile	75%ile
K&S	I	30.00	30.00
K	T	29.00	30.00
K	PS	26.00	27.00
K	SA	14.00	14.00
NC	I	35.00	35.00
NC	T	35.00	35.00
NC	PS	33.00	34.00
NC	SA	15.00	15.00
S&K	I	30.00	30.00
S	T	27.25	28.00
S	PS	25.00	25.00
S	SA	13.00	13.00

Table 10. Child Care Centers - Per Provider and Weighted 75%ile Prices

		Per Provider	Weighted*
Region	Type	75%ile	75%ile
K&S	I	40.00	40.00
K&S	T	35.00	35.09
K&S	PS	33.50	35.00
K&S	SA	16.50	18.00
NC	I	53.36	59.17
NC	T	47.30	53.58
NC	PS	41.50	47.60
NC	SA	20.00	18.00
S&K	I	40.00	40.00
S&K	T	35.00	35.09
S&K	PS	33.50	35.00
S&K	SA	16.50	18.00

* Weighted by the number of private-paying children in the cell. Weighted prices are considered to be *purchase prices* of private-paying families in Delaware. Provider prices are considered to be the *prices charged* by the Delaware providers.

Infant, toddler and preschool-age prices are for full-time care, for 30 hours or more per week and at least 6 hours per day. School-age are prices for part-day care, for less than 4 hours per day.

K&S; S&K = combined cells.

75%ile = 75th Percentile