

2014 Ohio Child Care Market Rate Survey Analysis

Final Report

Prepared for

Ohio Department of Job and Family Services

By

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Executive Summary	3
1.0 Project Background.....	5
2.0 Study Design.....	6
2.1 Definition of the Sampling Frame	6
2.2 Survey Development and Preliminary Testing	6
3.0 The Survey Process.....	7
4.0 Data Entry and Data Editing	8
5.0 Response Rate Analysis	12
6.0 Analysis of the Accuracy of the Survey Rate Data.....	17
6.1 Comparison of Rate Sheets to Electronic Survey Data	18
6.1.1 Licensed centers.....	18
6.1.2 Type-B providers	21
6.1.3 Recommendations for future surveys	22
6.2 Comparison of Rate Sheets to ODJFS Web Portal Data	23
6.2.1 Licensed centers.....	24
6.2.2 Type-B providers	26
6.2.3 Discussion of ODJFS portal rates.....	28
6.3 Comparison of Survey Rates to OCCRRA Data	29
6.3.1 Overall summary of error rates	31
6.3.2 Licensed centers.....	32
6.3.3 Type-A providers	33
6.3.4 Type-B providers	35
7.0 Market Rate Structure Analysis.....	38
7.1 Exploratory Analysis of Average County Rates.....	39
7.2 Principal Components Analysis.....	40
7.3 Cluster Analysis	41
8.0 Estimated Rate Distributions and Calculated Percentiles	47
Appendix A – Invitation Letter	78
Appendix B – Survey Instrument	79



Executive Summary

The Ohio Department of Job and Family Services (ODJFS) and The Ohio State University Statistical Consulting Service (SCS) worked together to design, administer, and analyze the 2014 Ohio Child Care Market Rate Survey. The goal of the survey is to characterize the unsubsidized (i.e., private pay) market rates for child care throughout the state.

There were two important changes in the 2014 survey from the 2012 survey: providers were asked about enrollments and rates in only three enrollment categories (full-time, part-time, and hourly) rather than the six enrollment categories that were used in 2012, and registered home providers were not included in the survey. As was done in previous years, the survey sought to obtain information about care provided to children in five age categories (infants, toddlers, pre-school, school-age during the school year, and school-age during the summer). ODJFS provided e-mail addresses for 8,531 unique providers from their provider portal. These providers consisted of licensed centers, Type-A licensed providers, and licensed Type-B home providers. Between the opening of the survey on August 15, 2014 and the cut-off date of September 23, 2014, 2,038 surveys containing usable rate data were received. The overall response rate was 32.67%. The response rate for licensed centers and Type A providers combined was 39.54%, and the response rate for licensed Type B providers was 25.25%.

While examining the data provided through the web survey, it became apparent that providers had relatively little difficulty interpreting the rate questions and entering information. The SCS made corrections to rates where the mistakes made in data entry were obvious, but a few outliers remained after these corrections. Consequently, the decision was made to eliminate a few rates that were unbelievably high or low within each of the 15 age/rate categories.

Following the methodology used to analyze the data for the 2006, 2008, 2010, and 2012 Market Rate surveys, counties were divided into four groups, or clusters (there were six groups in each of the surveys from 2006 - 2010). Groups were created so that counties within a single group had similar rate structures while counties in different groups had differing rate structures. There was some significant movement of counties into different groups from the ones in which they were classified in 2012. The main effect was to decrease the number of counties in the lowest-rate group and increase the number of counties in the higher-rate groups.

The 10th, 15th, 20th, 25th, 30th, 35th, 40th, 45th, 50th, 55th, 60th, 65th, 70th, 75th, 80th, 85th, 90th, and 95th percentiles were calculated for the unsubsidized rate distributions. The percentiles were calculated at the state-wide and county group levels. At the state-wide level and the county group level, the percentiles were calculated for licensed



centers only, licensed Type-A providers only, and licensed Type B providers. In each case the percentiles were calculated using gamma approximations to the rate distributions. Tables reporting these percentiles can be found in Section 8.0 of this report.



1.0 Project Background

The Ohio Department of Job and Family Services (ODJFS) develops and oversees programs designed to help Ohioans gain access to child care services. Part of this effort involves financial assistance to low-income families in the form of child care tuition subsidies. Federal regulations require that child care subsidy rate ceilings be based on the unsubsidized rates that child care providers charge parents around the state. The goal is to set subsidy rates high enough to ensure access to child care for low-income families but low enough that prices are not inflated and the cost to taxpayers is not excessive. Federal rules require that states conduct child care market rate surveys every two years as part of their program to ensure access to child care for low-income families.

The primary goal of this project is to develop reasonable estimates of the distribution of unsubsidized rates that Ohio child care providers charge the general public. These rates are known to vary by the age of the child, the amount of time the child is being cared for, and the geographic location of the provider within the state. ODJFS has conducted market rate surveys every two years since 1989. The 2014 market rate survey was conducted during July, August, and September of 2014. The 2014 survey was administered in a similar manner to the 2012 survey, using a web-based questionnaire that was distributed using e-mail addresses from ODJFS's provider portal. Unlike in 2012, where providers were asked to provide rates for six enrollment categories, the 2014 survey reverted to the three enrollment categories that were used in previous surveys (full-time, part-time, hourly). The statistical methods used to analyze the 2014 survey are similar to those used to analyze the surveys from 2006 - 2012.

This document is divided into eight main sections and two appendixes. Sections 2.0 and 3.0 describe the design and administration of the survey. These sections include information on the total population of providers to which survey invitations were e-mailed and the methodologies used for obtaining responses to the survey. The survey instruments and letters/e-mails to providers can be found in the appendixes. Section 4.0 describes the data entry and data editing tasks that were conducted before the analysis of the data. Section 5.0 contains summaries of the response rates to the survey broken down geographically and by provider type. Section 6.0 describes the quality analysis performed using the provider rate sheets to check the accuracy of the survey response data and the ODJFS web portal data. Section 7.0 describes the statistical methods that were used to analyze the rate data and put counties into groups. As was done in the surveys conducted from 2006 – 2012, a principal components analysis and cluster analysis were used to group counties based on similarities in rates. Section 7.0 also presents the resulting grouping of the counties and compares the group membership to that from 2012. Finally, Section 8.0 reports the market rate distributions and associated percentiles. Standard statistical techniques were employed to estimate the percentiles of the rate distributions within the child care service categories as reported in that section.



2.0 Study Design

2.1 Definition of the Sampling Frame

The sampling frame was defined to be all child care providers that could be obtained from the ODJFS provider portal. This portal contains the names, addresses, and current e-mail addresses of all licensed centers, Type-A and type-B child care providers in the state of Ohio. Unlike previous years, non-licensed type-B providers were not included in the survey.

The State of Ohio child care provider database contained a total of 8,531 unique providers that fall into the following categories:

- Type B Home Providers – 3,809 providers.
- Licensed Center Providers –4,722 providers, including 285 Type-A home providers.

Sections 3.0 and 5.0 describe the process of conducting the survey in more detail.

2.2 Survey Development and Preliminary Testing

Several tasks were completed to develop the survey instrument. An initial in-person meeting was held between SCS and ODJFS staff to discuss the design of the survey. Discussions focused on the organization of the questionnaire as well as the wording of the specific questions. ODJFS provided an initial draft of the questionnaire that was based on the 2006 – 2012 surveys, which were considered successful and, thus, a good basis for development of the 2014 survey.

After the initial meeting, ODJFS and SCS created several revisions that were distributed via email and discussed during several teleconferences to improve the organization, clarify the wording of the questions, and ensure that the data requested of the providers met the needs of ODJFS. A draft of the survey was presented to the Child Care Advisory Council (CCAC) on July 16, 2014, and suggestions for revisions by CCAC were addressed before the survey questionnaire was finalized. Appendix B contains a copy of the survey questionnaire.



3.0 The Survey Process

The survey was conducted using an electronic questionnaire administered through SurveyGizmo. A multiple-contact approach based on the Tailored Design Method [1] was used to increase the response rate. On July 23, 2014 each provider was e-mailed a notification letter from ODJFS that briefly explained the project and informed the provider that he would be receiving an invitation to participate in the survey electronically from the SCS. A copy of this notification letter is found in Appendix A. Invitations to participate were sent by the SCS on August 15, 2014 that directed each provider to go to a survey web page specially designed for them with pre-populated information about the provider (name, Provider ID, county). At the same time, ODJFS was provided with a web link to a form of the questionnaire that was not pre-populated. ODJFS posted this link on their website so that providers who either did not get an email invitation or chose not to use their pre-populated page could complete a survey (which required them to provide their name, Provider ID, and county).

Shortly after its launch on August 15, SurveyGizmo halted the survey after sending the invitation to approximately 400 providers because a high proportion of the email addresses were invalid. SCS and ODJFS worked together to take information from the rejected pre-notification emails and rejected invitations, revise the provider email list, and re-launch the survey on August 21, 2014. For this second launch, invitations were sent only to providers who did not receive the initial invitation on August 15.

On September 5, 2014, providers who had not completed the survey using their direct link were sent a reminder e-mail asking them to complete the survey soon. A second reminder was sent to providers who had not completed their direct-link survey on September 16, 2015. On September 23, 2012 the electronic survey was closed, and no additional provider responses were accepted.

After the survey was closed, a separate process was used to obtain rate sheets from a sample of providers and to obtain rates from the ODJFS portal for the quality control analysis. The quality control analysis was used for two purposes: to compare rate sheets with the rates provided by providers on the electronic survey and to compare rate sheets with entries in the ODJFS web portal. Based on responses to rate-sheet requests in previous survey years and the number of completed surveys, it was decided to submit rate-sheet requests to a random sample of 1,000 providers who completed the survey. The requests were sent via U.S. mail and included a pre-paid return envelope. Data from returned rate sheets were entered into a database by SCS employees. A list of these providers was sent to ODJFS so that they could download the rates supplied by the providers through ODJFS's web portal. The results of the quality control analysis performed using the collected rate sheets are presented in Section 6.0 of this report.



4.0 Data Entry and Data Editing

A statistical analysis database was constructed by the SCS using the information collected in the electronic survey. To create this database, key provider demographic data (e.g., county) that were in the original sample frame were merged with the survey data.

Because the survey was administered electronically, costs associated with reviewing paper surveys and entering survey data were completely removed from the project. Nonetheless, the electronic responses were reviewed, and some data provided by providers had to be modified before statistical analyses could be performed. The following changes were made to the rate fields before analysis was performed:

- Extraneous characters were removed from rate entries. These included ‘, “, , ; , and \$.
- Entries of “not applicable” (entered in forms including NA, N/A, Na, na, xxxx.xx, Not offered, No private care, and n/a) were converted to missing values.
- Entries where no billing period was provided were deleted, since these rates could not be appropriately converted.
- Entries of 0 for any rates were changed to missing values.
- The character “o” was converted to 0 in any entries that included it.
- Commas were removed from all entries except in cases where a single comma appeared in a value followed by two digits. In those cases, the comma was converted to a decimal.
- All characters were deleted after checking to make sure that no descriptive information was contained. Examples include converting “5.39/hr” to 5.39 and ensuring the billing rate was marked as hourly, or converting “43.00/daily” to 43.00 and ensuring the billing rate was marked as daily.
- Many providers entered rates in the “Other” column, rather than in the appropriate “Rate” column. Rate entries were moved to the “Rate” column, and an attempt was made to interpret any additional information entered in the text field describing the rate, with an appropriate transformation if necessary.
- Where a member and a non-member rate were provided, the non-member rate was used, since essentially the member rate includes a membership discount.
- In several cases, providers gave rates for 3 days per week and 2 days per week care rather than a single part-time rate. The two day per week rate was selected as the part-time (20 hours per week) rate in this situation, assuming that a day includes approximately 10 hours of care.
- Formulas entered were replaced with the resulting values (e.g., “5x12” was replaced by 60).
- Decimal points were added in cases where providers clearly omitted the decimal in error. An example of this would be a provider listing a full-time



- infant rate of 180.00 a week and a full-time preschool rate of 120.00 a week, but a full-time toddler rate of 13500 a week.
- Various other single-occurrence modifications were also made. Examples include converting “#120.00” to 120 and converting “155.,00” to 155.

In addition to the changes listed above, providers who provided no information in any of the rate fields were removed from the database.

Next, duplicate records were removed from the database. All providers on the email list were emailed a personalized web-link that only allowed the provider to respond once. Provider information such as provider ID, name, county, and type were pre-populated in the personalized survey, and a respondent's progress through the survey was saved if the respondent closed the survey before submitting. If a provider completed the survey but tried to access it again through the same link, the provider would see only a thank you page and be unable to reopen the survey. About half the respondents used these personalized links, limiting the issue of duplicate records. A generic survey link was also available for providers who were not on our email list due to bounces or bad emails. Because this link was not attached to a specific provider ID, respondents could use this link several times. Their progress was not saved if they could not complete it in one sitting, so if a provider closed the survey before submitting and returned later to complete it, two separate records were generated. The generic link also required respondents to enter their own provider information, leading to many invalid or missing provider IDs. About half the respondents used this generic link. Because many of these respondents had also received a personalized survey link, it was possible for a provider to submit one response through the personalized link and one or more responses through the generic link as well.

The following process was used for de-duplication:

- Extraneous characters (spaces, dashes, commas, or colons) were removed from provider IDs entered through the generic link, and as many of these provider IDs as possible were matched to the full list of provider IDs received from ODJFS to ensure that they were valid provider IDs. Of 1230 records entered through the generic link, it was possible to match all but 315 records on provider ID.
- Manual entry of a provider ID for the 315 unmatched records was attempted based on the provider name and county entered. A unique provider ID was available for 250 records; the remaining 85 records consisted of providers who either were not on the list provided by ODJFS or could not be uniquely identified. For example, a record for KinderCare in Franklin County with no other identifying information could not be uniquely identified, because there are several KinderCares in Franklin County.
- All records where a provider ID appeared only once were retained for analysis.



- All records that had no provider ID or name entered on the survey were retained for analysis.
- Among remaining records with a common provider ID, only the most complete record was retained.
- There were a handful of remaining records that could not be matched to a unique valid provider ID but that had entered duplicate invalid provider ID and duplicate provider names. The most complete record of these was retained.

Next, an attempt was made to remove preschool and Head Start programs from the database. Respondents who only provided rates for the preschool rate questions were removed, as well as respondents who provided rates for toddlers and preschoolers only, billed either annually or by semester, and had the word "preschool" in the provider name. A respondent was considered a Head Start program if the phrase "Head Start" was in the provider name.

In addition to the modifications noted above, the following edits were made to the data:

- The number of unsubsidized children was set to zero.
- For each rate and age category, the number of unsubsidized children was calculated by subtracting the number of subsidized children from the total number of enrolled children. If either of these pieces of information was missing, no value was entered for the number of unsubsidized children.
- For the 50-hour-per-week and 20-hour-per-week rate categories within each age group, the amount charged was converted to a weekly rate using the following calculations:
 - If the billing period marked was "Hour," the rate was multiplied by the number of hours for the rate category (e.g., for the first rate category, the value is multiplied by 50).
 - If the billing period marked was "Day," the rate was multiplied by 5.
 - If the billing period marked was "Week," the rate was unchanged.
 - If the billing period marked was "Every 2 weeks," the rate was divided by 2.
 - If the billing period marked was "Month," the rate was divided by 4.28.
 - If the billing period marked was "Other" an attempt was made to interpret the information entered in the text field describing the rate and an appropriate transformation was made. A full list of conversions is available upon request.
- For the 4-hours-per-week rate category within each age group, the amount charged was converted to an hourly rate using the following calculations:
 - If the billing period marked was "Hour," the rate was unchanged.
 - If the billing period marked was "Day," the rate was divided by 4. (Exploratory analyses showed that nearly all providers marking "Day"



interpreted this as the rate for 4 hours of care in a day, not the rate for one full day of care).

- If the billing period marked was “Week,” the rate was divided by 4.
- If the billing period marked was “Other” an attempt was made to interpret the information entered in the text field describing the rate and an appropriate transformation was made.

After making these adjustments to the rate data, histograms of full-time, part-time, and hourly rates were created for each of the five age categories for licensed centers, Type-A providers, and Type B providers. From these histograms, it was clear that some outliers needed to be removed prior to the statistical analysis. Only a few extreme values were removed.



5.0 Response Rate Analysis

Prior to the execution of the statistical analyses of the rate data, a response rate analysis was conducted. A total of 8,531 unique providers were available for contact in the ODJFS provider database. However, after starting the initial wave of survey, the survey provider, SurveyGizmo, halted the survey due to a large proportion of invalid e-mail addresses. The SCS asked ODJFS to provide a list of the invalid email addresses identified during the pre-survey notification that was emailed to providers using the original email list and removed the invalid email addresses from the original list. The electronic survey was sent via e-mail to the updated list of 7,037 providers. SurveyGizmo identified an additional 579 providers in the database with incorrect email addresses. As it is possible that the providers within invalid email addresses are no longer in business (or, more generally, simply could not be contacted for inclusion in the survey), these providers were removed from the survey. Two additional groups of providers were excluded from the survey: those who identified themselves as a Head Start or Preschool only providers, and those who in response to the first survey question indicated that they were no longer providing child care. A total of 206 providers fell into these groups, leaving 6,252 providers eligible for the survey. After de-duplicating the responses, a total of 2,023 responses were available for analysis.

One additional note should be made regarding survey responses. All of the providers in the original database were emailed a unique SurveyGizmo link, which when clicked, took the provider to a SurveyGizmo page with important identifying information (provider ID, provider type, address, and county) that was pre-populated in the survey response fields. A generic link to the survey was also made available on the ODJFS website that did not include pre-populated identifying information. Most of the responses that were submitted by initially clicking on the generic link contained the requisite identifying information and could be matched to a provider in the original database; however, several responders could not be identified, and their surveys were excluded from the survey. Of those responding through the generic link, there were 23 respondents who were disqualified as Head Start/Preschool only providers and an additional 16 responders who did not enter either their provider type or county.

The response rates by provider type and overall are reported in Table 1. The response rate calculated in the right-most column is equal to the number in the "Responses" column divided by the number in the "Total eligible" column. This calculation follows from the RR1 formula as defined by the American Association for Public Opinion Research, which is the most conservative method for calculating response rates. The overall response rate of 32.36% is well within the range of response rates for a typical survey of this type. For individual provider types, licensed centers had the highest response rates (just under 40%), while the Type-B home providers had the lowest response rates (just over 25%).

The geographic distribution of the responses was also examined by calculating county-wide response rates for each provider type and among all providers. For each

of these groups, both the “Total eligible” and “Responses” columns in Table 1 were separated into totals for each county so a county-specific response rate could be calculated. Figure 1 shows the county-wide response rates for licensed centers, Figure 2 shows response rates for licensed Type-A, Figure 3 shows response rates for licensed Type-B homes, and Figure 4 shows response rates for all three provider types combined.

Table 1. Summary of response rates, by provider type.

Category	Original ODJFS database	Updated email list	Total emails, bounce-backs removed	Disqualified and Head Start/Preschool only	Total eligible	Responses	Response Rate
Licensed Centers	4,437	3,510	3,238	197	3,041	1,210	39.79%
Licensed Type-A	285	230	215	2	213	56	26.29%
Licensed Type-B	3,809	3,297	3,005	7	2,998	757	25.25%
Overall Total	8,531	7,037	6,458	206	6,252	2,023	32.36%

As expected, only a few counties show low response rates for licensed centers, although there is a cluster of low responses along the eastern border of Ohio, suggesting that this region may be underrepresented for licensed centers. It should be noted that several counties (Carroll, Harrison, Hocking, Holmes, Monroe, Morgan, Morrow, Noble, Paulding, Ross, and Vinton) have only one or two licensed centers, skewing the response rates in these counties. The relatively small number of licensed Type-A homes shows up in the fact that many counties have no providers of this type, and many counties only have one provider of this type (again skewing response rates). For Type-B home providers, the lowest response category (less than 10%) is slightly larger, with clusters of low response rates in southwest and northwest Ohio. Overall, the response rate for each county is greater than 10% except in Brown and Knox counties (both counties have at least ten providers), so the responses can be seen as a mostly representative sample from the state. It should be noted, however, that several counties have very low representation overall, namely Morgan (two total providers), Noble (three total providers), Paulding (three total providers), and Van Wert (three total providers). All other counties have at least four total providers.

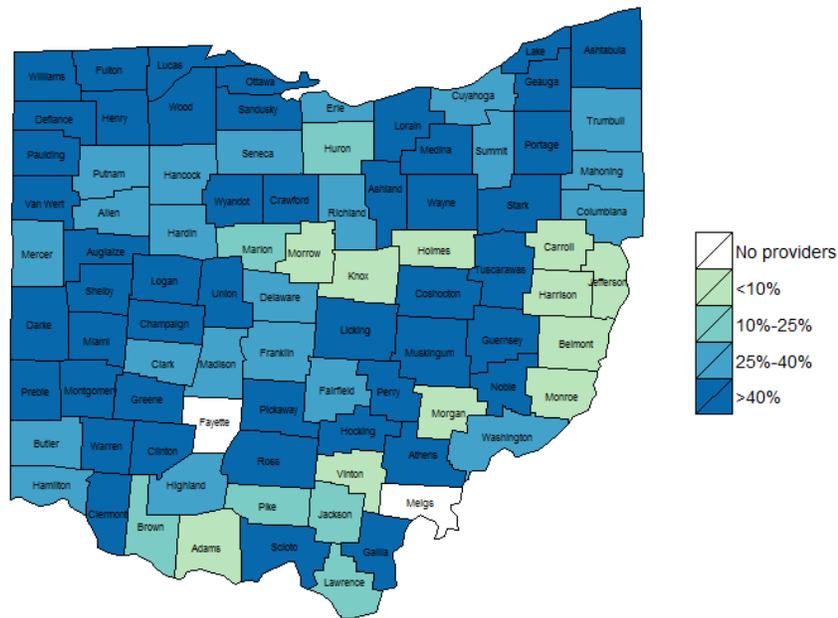


Figure 1. Response rates for licensed centers.

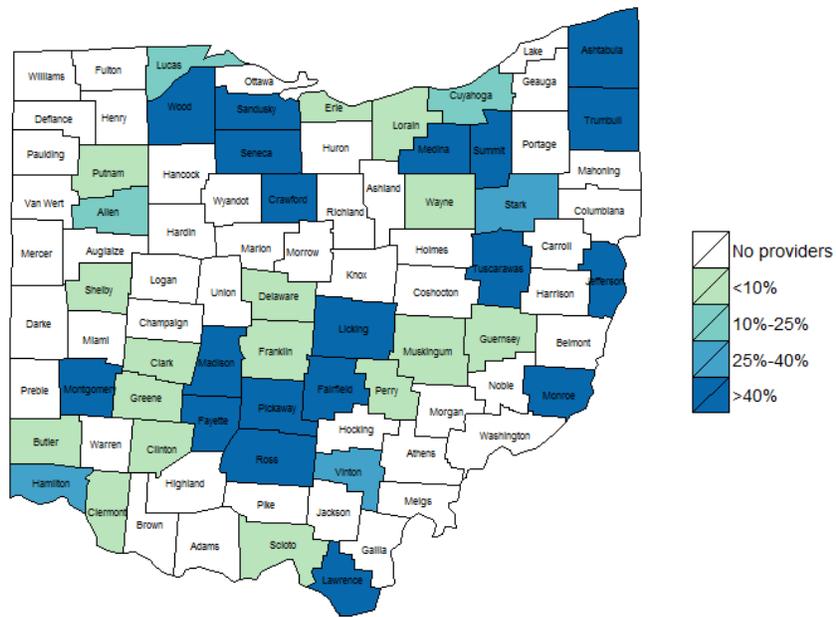


Figure 2. Response rates for licensed Type-A providers.



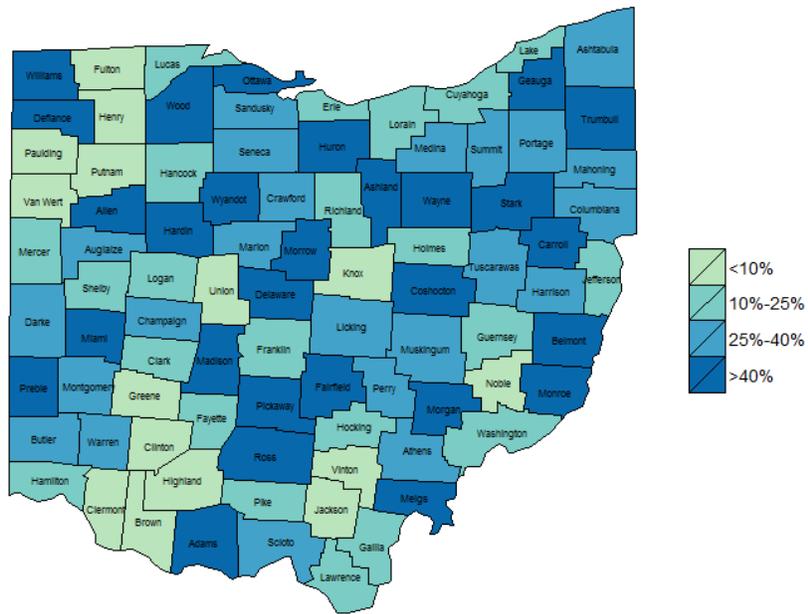


Figure 3. Response rates for Licensed Type-B providers

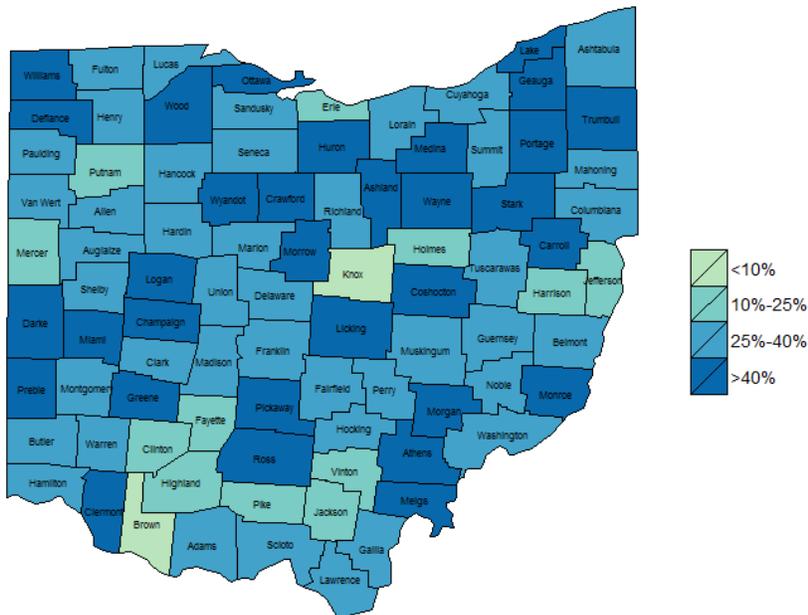


Figure 4. Overall response rates.

Two additional summaries can be made from the survey responses. First, the percentage of disqualified or Head Start/Preschool-only providers from the entire database can be estimated based on the responses received. Including the respondents who are either disqualified or Head Start/Preschool only, there were $2,023 + 206 = 2,229$ responses, meaning that $206/2,229 = 0.0924$ or 9.24% of all respondents fell into this category. Thus, of the 8,531 providers in the original ODJFS database, it is estimated that $0.0924 \times 8,531 = 789$ providers either no longer provide services or are Head Start/Preschool-only. This calculation is summarized for each provider type in Table 2. Secondly, some of the 2,023 responses considered eligible for this survey were incomplete and therefore cannot be included in the analyses of the following sections. Overall, 665 of the responses were incomplete, meaning that $665/2,023 = 0.3287$ or 32.87% of responses were excluded from the analysis. Again, a breakdown is given for each provider type in Table 3.

Table 2. Estimated number of providers out of the original ODJFS database that either no longer provide services or are Head Start/Preschool only.

Category	Total responses	Disqualified and Head Start/Preschool only	Percent DQ'd or Head Start/Preschool Only	Original ODJFS database	Estimated number DQ'd or Head Start/Preschool
Licensed Centers	1,407	197	14.00%	4,437	622
Licensed Type-A	58	2	3.45%	285	10
Licensed Type-B	764	7	0.92%	3,809	35
Overall Total	2,229	206	9.24%	8,531	789

Table 3. Incomplete survey records, by provider type.

Category	Responses	Incomplete Survey Records	Percent Incomplete
Licensed Centers	1,210	315	26.03%
Licensed Type-A	56	15	26.79%
Type-B Home Providers	757	335	44.25%
Overall Total	2,023	665	32.87%

6.0 Analysis of the Accuracy of the Survey Rate Data

After the electronic survey was closed, a separate process was used to obtain rate sheets from a sample of providers for the quality control analysis. This quality control analysis compared three sets of rates: rates entered by providers on the electronic survey, rates from the providers' rate sheets, and rates recorded in the ODJFS web portal. Analyses were performed to compare the values of the rate sheets to each of the other sources. For the comparison of rate sheets with rates entered by the providers on the electronic survey, the purpose was to determine whether providers had a clear understanding of the questions on the survey. A close match between answers entered by the providers and the correct values (determined by SCS employees reviewing the corresponding rate sheets) would indicate that providers had interpreted the questions uniformly and in a way that met the SCS's expectations. For the second analysis, comparing rate sheets to ODJFS' web portal, the purpose was to determine whether the information in the portal is accurate. For the purposes of this analysis, a discrepancy of less than 5% between the provider's rate sheet and the information in ODJFS' web portal was considered a match, while values with a greater percent error were considered not to match.

Requests for rate sheets were sent out to providers randomly selected from among the respondents to the electronic survey. A total of 1,000 requests were sent via U.S. mail and included a pre-paid return envelope. Data from the returned rate sheets were entered into a database by SCS employees. Rates were recorded by age group (infant, toddler, preschool, school-age, and school-age summer) as well as enrollment group (full-time, part-time, and hourly), and rates that were not given in the rate sheet were recorded as missing. Non-missing rates were converted to a standard scale as with the electronic survey (see Section 4.0 for conversion rates).

A total of 279 rate sheets were returned from the 1,000 requests mailed out (as of November 18, 2014). Of these 279, only 255 were identifiable and could be matched to a unique provider in the ODJFS database; the other 24 returned rate sheets did not contain enough unique information to complete a match. Of the 255, an additional 51 rate sheets were from preschool/Head Start programs only and were excluded. Thus, a total of 204 rate sheets were available for analysis: 170 licensed centers, 2 Type-A providers, and 32 Type-B home providers. However, while the Type-A providers are of interest for the survey, because there were only 2 rate sheets returned, Type-A providers are excluded from the following analysis. The provider's Provider ID was used to link the rate sheet information to the information provided on the completed survey and in the ODJFS provider portal.



6.1 Comparison of Rate Sheets to Electronic Survey Data

The accuracy of the survey rate data was assessed by calculating the percent error as follows:

$$\text{Error Rate \%} = 100 \times \left[\frac{\text{survey rate}}{\text{rate from rate sheet}} - 1 \right].$$

This error rate is a percentage error – values below 0% indicate under-reporting of rates relative to the rate sheets while values above 0% indicate over-reporting of rates relative to the rate sheets. The error rates were analyzed separately by provider type.

6.1.1 Licensed centers

An overall summary of the error rates for licensed centers is given in Table 4 and Figure 5. The 170 providers in this group provided a total of 2,550 rates. Of these rates, only 1,250 could be matched to a corresponding rate from the electronic survey. For these 1,250 rates, the overall mean error rate is 1.63 percent, with a median error rate of 0.00 percent. A total of 690 rates matched the rate sheet exactly, 320 rates were under-reported (the error rate percent was negative), and 240 rates were over-reported (the error rate percent was positive).

Table 4. Overall error rate percentage summaries, comparing survey responses with submitted rate sheets.

PROVIDER TYPE	MEAN ERROR RATE (%)	MEDIAN ERROR RATE (%)	NUMBER OF RATES AVAILABLE FROM RATE SHEETS	NUMBER OF RATES WITH A CORRESPONDING VALUE FROM THE SURVEY	ERROR < 0	ERROR = 0	ERROR > 0
CENTERS	1.63	0	2,550	1,250	320	690	240
TYPE-B	11.34	0	480	406	97	193	116

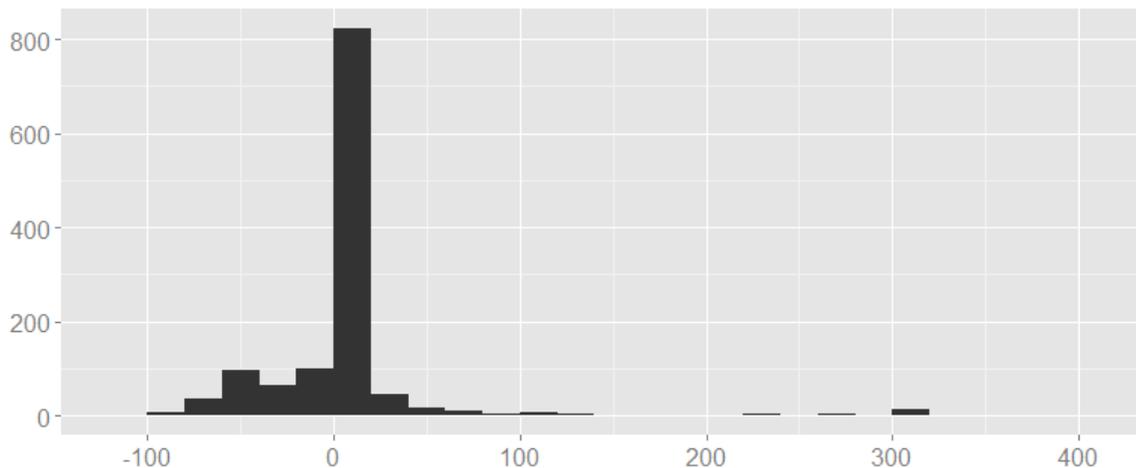


Figure 5. Error rates for licensed centers.



In addition to summarizing the rate sheets overall, specific analyses were done for each age/enrollment category. Summary statistics for the age/enrollment-specific analyses are shown in Table 5. The smallest errors for licensed centers are consistently in the full-time rate group, across all age categories; the full-time error rates have small means and small standard deviations, which indicates that most error rates in this rate group are close to zero and the reported rates are accurate. The part-time error rates are slightly larger, with uniformly larger means (which are all negative) and standard deviations, indicating that the rates were both less accurate and less precise. The hourly rates, on the other hand, show large discrepancies between the self-reported values and those gathered from the rate sheets. Again, this is visible in the mean error rate and the standard deviation of the error rates, both of which are extremely large across all age groups. This is not necessarily surprising, because the hourly rates can be the most difficult to qualify. This trend was also present in the 2012 market rate survey data. It should be noted that the enrollment group with the smallest sample sizes is the hourly group, which may be contributing to the skewed nature of the error rates.

Table 5. Error rate percentage summaries for licensed centers.

CATEGORY	# AVAILABLE	# MATCH	MEAN ERROR RATE (%)	STD ERROR MEAN (%)	STD DEV ERROR RATE (%)
INFANT, FULL-TIME	135	127	0.16	0.71	8.03
INFANT, PART-TIME	87	75	-10.66	3.66	31.72
INFANT, HOURLY	34	23	98.57	32.30	154.91
TODDLER, FULL-TIME	147	144	-0.27	1.18	14.20
TODDLER, PART-TIME	115	105	-13.27	2.96	30.35
TODDLER, HOURLY	40	26	80.17	27.43	139.86
PRESCHOOL, FULL-TIME	155	152	-0.85	0.94	11.53
PRESCHOOL, PART-TIME	137	124	-9.00	4.41	49.12
PRESCHOOL, HOURLY	43	29	34.96	18.85	101.52
SCHOOL AGE, FULL-TIME	119	93	2.37	3.93	37.87
SCHOOL AGE, PART-TIME	109	95	-17.04	4.21	41.08
SCHOOL AGE, HOURLY	41	29	29.06	18.67	100.57
SCHOOL AGE (SUMMER), FULL-TIME	131	120	4.22	2.28	25.01
SCHOOL AGE (SUMMER), PART-TIME	94	82	-7.84	4.20	38.01
SCHOOL AGE (SUMMER), HOURLY	40	26	31.42	17.76	90.58

While exploring the summary statistics is interesting, it is also important to conduct inference through formal statistical analyses of these error rates. A nonparametric Wilcoxon signed rank test was used to determine whether or not there is a significant bias in the provider rates (see Table 6). Using a nonparametric test in this setting will account for the fact that the error rates are highly skewed (again, see Figure 5), include many zeroes, and contain several extreme outliers (values that are much larger than the rest of the data). Using a significance level of $\alpha = 0.05$, seven of the 15 age/rate groups show significant bias (the group-specific P -value is less than $\alpha = 0.05$). Interestingly, all of the part-time rate groups seem to be biased toward under-reporting their rates on the electronic survey, while the infant/hourly and toddler/hourly groups appear to be biased toward over-reporting their rates on the survey (the school-age summer/full-time group also falls into the over-reporting category).

Table 6. Wilcoxon sign test for median error rate percentage among licensed centers.

CATEGORY	MEDIAN ERROR (%)	BELOW ZERO	EQUAL ZERO	ABOVE ZERO	PVAL
INFANT, FULL-TIME	0	8	100	19	0.116
INFANT, PART-TIME	0	31	30	14	0.004
INFANT, HOURLY	0	2	11	10	0.011
TODDLER, FULL-TIME	0	16	111	17	1.000
TODDLER, PART-TIME	0	47	40	18	0.000
TODDLER, HOURLY	0	6	9	11	0.037
PRESCHOOL, FULL-TIME	0	20	116	16	0.666
PRESCHOOL, PART-TIME	0	54	43	27	0.000
PRESCHOOL, HOURLY	0	8	12	9	0.276
SCHOOL AGE, FULL-TIME	0	19	52	22	0.897
SCHOOL AGE, PART-TIME	-16.67	52	24	19	0.000
SCHOOL AGE, HOURLY	0	8	15	6	0.451
SCHOOL AGE (SUMMER), FULL-TIME	0	13	83	24	0.016
SCHOOL AGE (SUMMER), PART-TIME	0	30	31	21	0.066
SCHOOL AGE (SUMMER), HOURLY	0	6	13	7	0.328

6.1.2 Type-B providers

Overall summaries for the Type-B providers are shown in Table 7 and Figure 6. The 32 providers in this group provided a total of just 480 rates, but a much higher percentage of these ($406/480 = 0.85$ or 85 percent) could be matched with the rates given in the electronic survey. For these 406 rates, the mean error rate is 11.34 percent, with a median error rate of 0.00 percent. A total of 193 rates given in the electronic survey match the rate sheet exactly, 97 rates were under-reported, and 116 were over-reported.

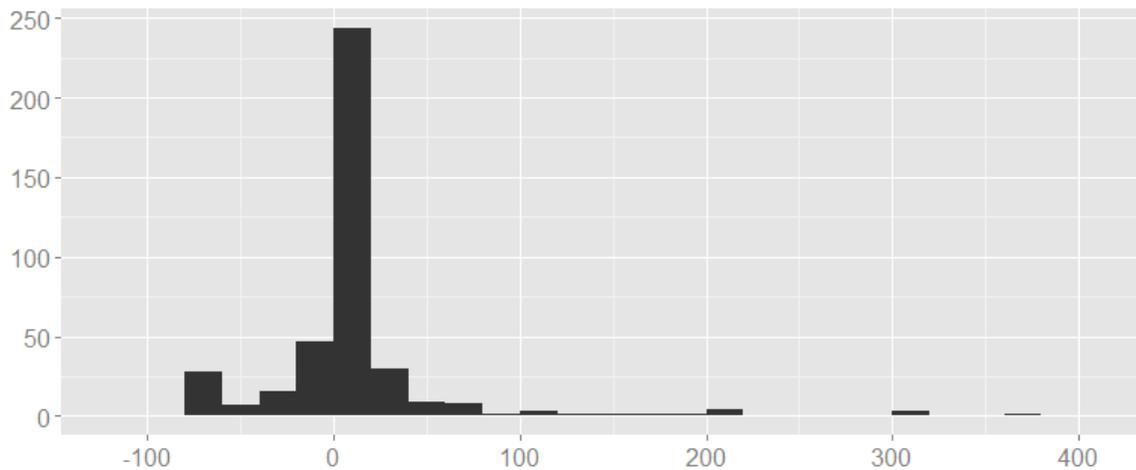


Figure 6. Error rates for Type-B home providers. Two error rates are larger than 400 and are not plotted (605.9% and 1900%).

As with the licensed centers, age/rate category-specific analyses were conducted. Exploratory summaries are given in Table 7, from which we see that several of the hourly groups display large discrepancies (infant, toddler, preschool, and school age summer) in both their mean and standard deviation, while the school-age hourly group is fairly accurate. The full-time and part-time groups display smaller discrepancies -- that is, they have both smaller means and smaller standard deviations. Note that these trends remain consistent in spite of nearly equal sample sizes in each age/rate group. A Wilcoxon signed rank test was used to evaluate bias between survey-reported and rate-sheet rates because the Type-B home provider error rates are still highly skewed, include many zeroes, and contain outliers (see Figure 6). The analyses give much different results for the Type-B home providers (see Table 8). Using a significance level of $\alpha = 0.05$, only one of the 15 age/rate groups show significant bias, and this group is a full-time rate group (school age). This group appears to be biased towards over-reporting their rates.



Table 7. Error rate percentage summaries for Type-B providers.

CATEGORY	# AVAILABLE	# MATCH	MEAN ERROR RATE (%)	STD ERROR MEAN (%)	STD DEV ERROR RATE (%)
INFANT, FULL-TIME	30	29	-1.41	3.39	18.23
INFANT, PART-TIME	29	27	-2.89	4.49	23.34
INFANT, HOURLY	28	25	10.54	17.44	87.22
TODDLER, FULL-TIME	31	29	3.46	1.80	9.71
TODDLER, PART-TIME	30	28	-0.55	3.20	16.95
TODDLER, HOURLY	30	26	24.22	27.58	140.63
PRESCHOOL, FULL-TIME	31	29	3.48	1.90	10.23
PRESCHOOL, PART-TIME	30	28	0.69	3.62	19.14
PRESCHOOL, HOURLY	30	26	14.81	18.84	96.05
SCHOOL AGE, FULL-TIME	30	28	7.00	3.15	16.65
SCHOOL AGE, PART-TIME	29	27	3.08	3.52	18.31
SCHOOL AGE, HOURLY	28	24	2.07	13.04	63.90
SCHOOL AGE (SUMMER), FULL-TIME	30	29	3.21	3.89	20.97
SCHOOL AGE (SUMMER), PART-TIME	29	27	3.79	3.56	18.50
SCHOOL AGE (SUMMER), HOURLY	28	24	113.13	80.76	395.65

6.1.3 Recommendations for future surveys

Recall that the analyses in Section 6.1 were performed to determine whether providers had a clear understanding of the questions on the survey (comparing rate sheets vs. survey data). Now that these analyses have been completed, several recommendations can be made to improve future ODJFS market rate surveys.

Licensed centers:

- Clarify hourly rate questions – consistently over-reporting, extreme variability in the error rates
- Clarify part-time rate questions – consistently under-reporting

Type-B providers:

- Is there something systematic about Type-B home providers that is causing them to over-report their full-time rates?
- Clarify hourly rate questions – extreme variability in the error rates

Table 8. Wilcoxon sign test for median error rate percentage among Type-B providers.

CATEGORY	MEDIAN ERROR (%)	BELOW ZERO	EQUAL ZERO	ABOVE ZERO	PVAL
INFANT, FULL-TIME	0	5	19	5	1.00
INFANT, PART-TIME	0	8	14	5	0.48
INFANT, HOURLY	0	9	7	9	0.97
TODDLER, FULL-TIME	0	2	18	9	0.07
TODDLER, PART-TIME	0	9	13	6	0.69
TODDLER, HOURLY	0	9	7	10	1.00
PRESCHOOL, FULL-TIME	0	4	17	8	0.08
PRESCHOOL, PART-TIME	0	10	11	7	1.00
PRESCHOOL, HOURLY	0	8	10	8	0.76
SCHOOL AGE, FULL-TIME	0	2	18	8	0.02
SCHOOL AGE, PART-TIME	0	5	15	7	0.67
SCHOOL AGE, HOURLY	0	9	7	8	0.94
SCHOOL AGE (SUMMER), FULL-TIME	0	5	15	9	0.08
SCHOOL AGE (SUMMER), PART-TIME	0	7	14	6	0.44
SCHOOL AGE (SUMMER), HOURLY	0	5	8	11	0.15

6.2 Comparison of Rate Sheets to ODJFS Web Portal Data

The accuracy of the ODJFS portal rate data was assessed by calculating the percent error similarly to the previous analysis:

$$\text{Error Rate \%} = 100 \times \left[\frac{\text{ODJFS portal rate}}{\text{rate from rate sheet}} - 1 \right].$$



As before, this error rate is a percentage error – values below 0% indicate under-reporting of rates relative to the rate sheets while values above 0% indicate over-reporting of rates relative to the rate sheets. The error rates were analyzed separately by provider type.

6.2.1 Licensed centers

An overall summary of the error rates for licensed centers is given in Table 9 and Figure 7. The 170 providers in this group provided a total of 2,550 rates. Of these rates, only 1,339 could be matched to a corresponding rate from the ODJFS portal. For these 1,339 rates, the overall mean error rate is -3.75 percent, with a median error rate of 0.00 percent. A total of 565 rates match the rate sheet exactly, 510 rates are under-represented (the error rate percent was negative), and 264 rates are over-represented (the error rate percent was positive).

Table 9. Overall error rate percentage summaries, comparing ODJFS portal rates with submitted rate sheets.

PROVIDER TYPE	MEAN ERROR RATE (%)	MEDIAN ERROR RATE (%)	NUMBER OF RATES AVAILABLE FROM RATE SHEETS	NUMBER OF RATES WITH A CORRESPONDING VALUE FROM THE SURVEY	ERROR < 0	ERROR = 0	ERROR > 0
CENTER	-3.75	0.00	2550	1339	510	565	264
TYPE-B	6.81	0.00	480	443	61	348	34

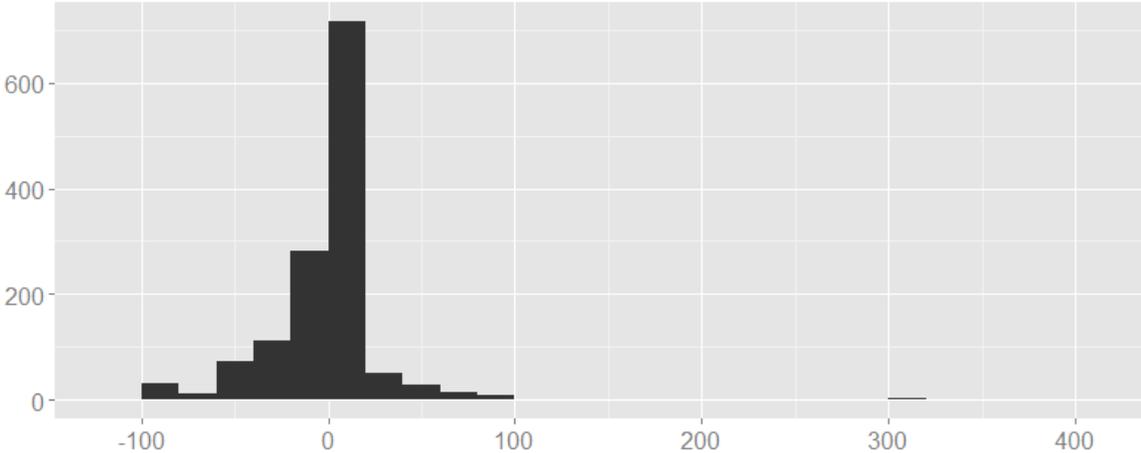


Figure 7. Error rate percentages for licensed centers, rate sheets vs. ODJFS portal rates.

In addition to summarizing the rate sheets overall, specific analyses were done for each age/enrollment category. Summary statistics for the age/enrollment-specific analyses are shown in Table 10Table 5. The smallest errors are consistently in the full-time rate group (except for the school age group); all full-time groups have the smallest standard deviations as well. No pattern arises in the part-time vs. hourly

groups with respect to the mean error rate percentage, but again the standard deviations in the hourly rates are much larger than the part-time rates, indicating that the hourly rates are highly variable.

Table 10. Error rate percentage summaries for licensed centers, rate sheets vs. ODJFS portal rates.

CATEGORY	# AVAILABLE	# MATCH	MEAN ERROR RATE (%)	STD ERROR MEAN (%)	STD DEV ERROR RATE (%)
INFANT, FULL-TIME	135	126	-3.38	1.65	18.57
INFANT, PART-TIME	87	81	-12.11	3.26	29.36
INFANT, HOURLY	34	33	3.64	3.65	20.99
TODDLER, FULL-TIME	147	137	-2.24	1.12	13.14
TODDLER, PART-TIME	115	106	-7.16	2.84	29.24
TODDLER, HOURLY	40	39	14.82	8.32	51.98
PRESCHOOL, FULL-TIME	155	144	-2.13	0.85	10.16
PRESCHOOL, PART-TIME	137	120	-2.12	3.83	41.99
PRESCHOOL, HOURLY	43	42	-2.20	3.49	22.61
SCHOOL AGE, FULL-TIME	119	113	-11.98	2.65	28.20
SCHOOL AGE, PART-TIME	109	103	-19.99	2.98	30.27
SCHOOL AGE, HOURLY	41	40	11.09	11.43	72.31
SCHOOL AGE (SUMMER), FULL-TIME	131	125	0.60	2.30	25.67
SCHOOL AGE (SUMMER), PART-TIME	94	90	-1.04	4.21	39.90
SCHOOL AGE (SUMMER), HOURLY	40	40	9.79	8.60	54.39

A nonparametric Wilcoxon signed rank test is again used to conduct formal analyses of the error rates and determines whether or not there is a significant bias in the provider rates (see Table 11). Using a significance level of $\alpha = 0.05$, seven of the 15 age/rate groups show significant bias (the group-specific P -value is less than $\alpha = 0.05$). Interestingly, four of the five full-time rate groups (all but the school-age summer group) seem to have rates in the ODJFS portal which are biased toward under-reporting (a trend similar to the electronic survey). Three of the five part-time rate groups are also under-reported in the ODJFS portal. All of the hourly rate groups have non-significant P -values, which indicates that the rates are accurately represented in the ODJFS portal.

Table 11. Wilcoxon sign test for median error rate percentage among licensed centers, rate sheets vs. ODJFS portal rates.

CATEGORY	MEDIAN ERROR (%)	BELOW ZERO	EQUAL ZERO	ABOVE ZERO	PVAL
INFANT, FULL-TIME	0	40	65	21	0.040
INFANT, PART-TIME	0	33	30	18	0.001
INFANT, HOURLY	0	6	22	5	0.722
TODDLER, FULL-TIME	0	46	74	17	0.009
TODDLER, PART-TIME	0	47	34	25	0.014
TODDLER, HOURLY	0	5	25	9	0.060
PRESCHOOL, FULL-TIME	0	51	76	17	0.001
PRESCHOOL, PART-TIME	0	55	32	33	0.056
PRESCHOOL, HOURLY	0	12	24	6	0.338
SCHOOL AGE, FULL-TIME	-2.65	58	35	20	0.000
SCHOOL AGE, PART-TIME	-17.50	64	25	14	0.000
SCHOOL AGE, HOURLY	0	12	20	8	0.823
SCHOOL AGE (SUMMER), FULL-TIME	0	35	60	30	0.535
SCHOOL AGE (SUMMER), PART-TIME	0	36	23	31	0.486
SCHOOL AGE (SUMMER), HOURLY	0	10	20	10	0.332

6.2.2 Type-B providers

Overall summaries for the Type B providers are shown in Table 12 and Figure 8. The 32 providers in this group provided a total of just 480 rates, but a much higher percentage of these ($443/480 = 0.92$ or 92 percent) could be matched with the rates given in the electronic survey. For these 443 rates, the mean error rate is 6.81 percent, with a median error rate of 0.00 percent. A total of 348 rates given in the portal match the rate sheet exactly, 61 rates are under-represented, and 34 are over-represented.



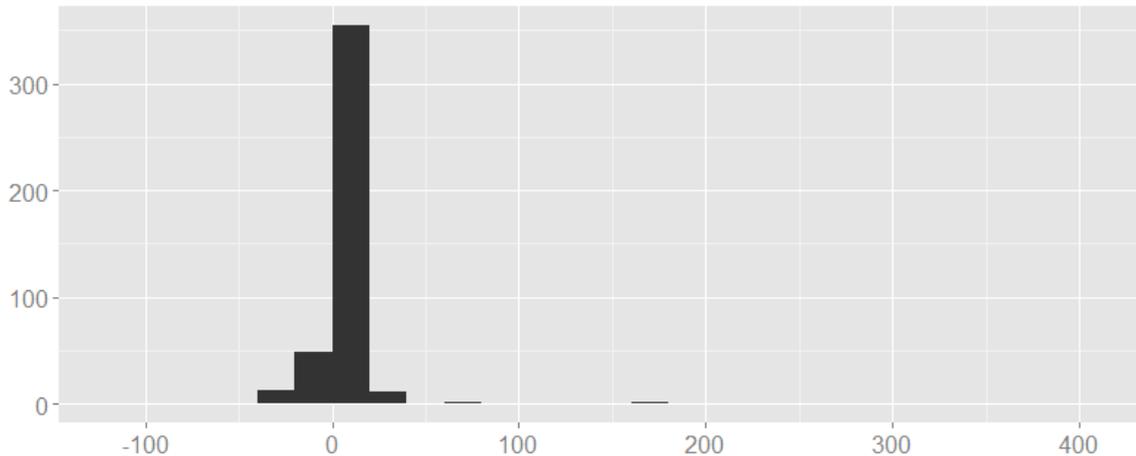


Figure 8. Error rates for Type-B providers, rate sheets vs. ODJFS portal rates. Five error rates are larger than 400 and are not plotted (all 433.33%, all corresponding to hourly rates from the same provider).

As with the licensed centers, age/rate category-specific analyses were conducted. Exploratory summaries are given in Table 12, from which we see that all of the hourly groups again display large discrepancies, in both mean and standard deviation: the rates in the portal are both inaccurate and highly variable. Both the full-time and part-time groups are much more accurate. Note that these trends remain consistent in spite of nearly equal sample sizes (as with the rate sheet vs. survey comparison). A Wilcoxon signed rank test was used to evaluate bias between portal data and rate-sheet rates because the Type-B error rates are still highly skewed, include many zeroes, and contain outliers (see Figure 8). These analyses give much different results than for the licensed centers – using a significance level of $\alpha = 0.05$, none of the groups are significantly biased, even the hourly rate groups.

A nonparametric Wilcoxon signed rank test is again used to conduct formal analyses of the error rates and determines whether or not there is a significant bias in the provider rates (see Table 13). Using a significance level of $\alpha = 0.05$, seven of the 15 age/rate groups show significant bias (the group-specific P -value is less than $\alpha = 0.05$). Interestingly, four of the five full-time rate groups (all but the school-age summer group) seem to have rates in the ODJFS portal which are biased toward under-reporting (a trend similar to the electronic survey). Three of the five part-time rate groups are also under-reported in the ODJFS portal. All of the hourly rate groups have non-significant P -values, which indicates that the rates are accurately represented in the ODJFS portal.

Table 12. Error rate percentage summaries for Type-B providers, rate sheets vs. ODJFS portal rates.

CATEGORY	# AVAILABLE	# MATCH	MEAN ERROR RATE (%)	STD ERROR MEAN (%)	STD DEV ERROR RATE (%)
INFANT, FULL-TIME	30	30	-0.90	1.19	6.54
INFANT, PART-TIME	29	29	-1.09	1.77	9.52
INFANT, HOURLY	28	28	12.54	15.72	83.18
TODDLER, FULL-TIME	31	31	2.14	3.72	20.71
TODDLER, PART-TIME	30	30	2.30	4.33	23.73
TODDLER, HOURLY	30	30	22.18	17.48	95.72
PRESCHOOL, FULL-TIME	31	31	5.24	6.38	35.54
PRESCHOOL, PART-TIME	30	30	5.62	5.77	31.60
PRESCHOOL, HOURLY	30	30	13.52	14.59	79.93
SCHOOL AGE, FULL-TIME	30	30	3.17	2.93	16.07
SCHOOL AGE, PART-TIME	29	29	1.74	2.55	13.72
SCHOOL AGE, HOURLY	28	28	13.57	15.65	82.79
SCHOOL AGE (SUMMER), FULL-TIME	30	30	2.95	3.25	17.79
SCHOOL AGE (SUMMER), PART-TIME	29	29	5.33	5.92	31.87
SCHOOL AGE (SUMMER), HOURLY	28	28	15.01	15.57	82.39

6.2.3 Discussion of ODJFS portal rates

Since the primary goal of this analysis is to determine an overall accuracy of the ODJFS portal rates, we will use the formal nonparametric analyses to discuss the portal accuracy. The rates for Type-B providers are highly accurate, based on the highly non-significant results (large *P*-values) in Table 13. While the sample size is too small to make a formal statement, the Type-A providers also appear to be well-represented in the portal. The licensed centers, on the other hand, are quite inaccurate – almost half of the age/rate groups are significantly biased in the portal. The most problematic groups are the full-time and part-time groups, which are the most clearly biased, specifically in the infant, toddler, and school-age groups.

Table 13. Wilcoxon sign test for median error rate percentage among Type-B providers, rate sheets vs. ODJFS portal rates.

CATEGORY	MEDIAN ERROR ERROR (%)	BELOW ZERO	EQUAL ZERO	ABOVE ZERO	PVAL
INFANT, FULL-TIME	0	4	25	1	0.418
INFANT, PART-TIME	0	6	22	1	0.272
INFANT, HOURLY	0	5	21	2	0.672
TODDLER, FULL-TIME	0	4	26	1	0.590
TODDLER, PART-TIME	0	5	24	1	0.402
TODDLER, HOURLY	0	5	22	3	0.833
PRESCHOOL, FULL-TIME	0	4	25	2	1.000
PRESCHOOL, PART-TIME	0	4	23	3	0.800
PRESCHOOL, HOURLY	0	5	22	3	0.944
SCHOOL AGE, FULL-TIME	0	3	24	3	0.529
SCHOOL AGE, PART-TIME	0	3	23	3	1.000
SCHOOL AGE, HOURLY	0	5	21	2	0.735
SCHOOL AGE (SUMMER), FULL-TIME	0	2	25	3	0.590
SCHOOL AGE (SUMMER), PART-TIME	0	3	23	3	0.834
SCHOOL AGE (SUMMER), HOURLY	0	3	22	3	0.752

6.3 Comparison of Survey Rates to OCCRRA Data

A database of child care provider records maintained by Ohio Child Care Resource and Referral Agency (OCCRRA) was forwarded to the SCS in order to compare the rates with those collected in the 2014 market rate survey. The raw data from the OCCRRA database included rates for five rate groups, seven age groups, and two rate types:

Table 14. OCCRRA age/rate/type categories.

Rate Groups	Daily, Hourly, Monthly, Other, Weekly
Age Groups	0-17 months, 18-35 months, 3-5 years, not in school, 5+ years and in school, 11-15 years, FCC 0-23 months, FCC 24 months-3 years
Rate Types	Full time, Part time



However, the rates from the market rate survey were placed in different categories, namely:

Table 15. Market rate survey age/rate categories.

Age Groups	Infant, Toddler, Preschool, School age, School age/summer
Rate Types	Full time, Part time, Hourly

Therefore, the OCCRRA rates needed to be matched and converted in order to be on comparable scales. The age group matching was done as follows:

Table 16. Matched age groups, survey vs. OCCRRA records.

Survey Age Group	OCCRRA Age Group
Infant	0-17 months
Toddler	18-35 months
Preschool	3-5 years
School age	5+ years and in school

Rates from the OCCRRA database were converted to full-time and part-time rates in the same way the raw survey rates were converted: first, if weekly rates were available, these were used. If weekly rates were not available, conversions were done in the following order of preference:

1. Daily rates, multiplied by 5,
2. Monthly rates, divided by 4.28,
3. Hourly rates, multiplied by 50 (full time) or 20 (part time).

Note that both the summer rates and hourly rates from the market rate survey were dropped for this part of the analysis.

The accuracy of the survey rate data was assessed by calculating the percent error as follows:

$$\text{Error Rate \%} = 100 \times \left[\frac{\text{survey rate}}{\text{OCCRRA rate}} - 1 \right].$$

This error rate is a percentage error – values below 0% indicate under-reporting of rates relative to the OCCRRA records while values above 0% indicate over-reporting of rates relative to the OCCRRA records. The error rates were analyzed separately by provider type, although responses from Type A providers were dropped from this part of the analysis.



6.3.1 Overall summary of error rates

Overall, there were 1,563 providers that had both a record in the OCCRRA database and submitted a response to the market rate survey and could therefore be matched and used for the following rate comparisons. Including the four age groups and two rate groups (full time and part time), a total of 4,118 rates (out of the $1,563 * 8 = 12,504$ total possible rates) could be matched between the OCCRRA and survey records.

A summary of the error rates for licensed centers, Type-A providers, Type-B providers, and the overall rates is given in Table 17, and a histogram of the overall rates is given in Figure 9. Similar histograms will be given for centers and Type-B providers separately in the following sections.

Of the 3,986 rates, the overall median error rate is 0.00 percent, with a mean error rate of 12.51 percent. A total of 1304 OCCRRA rates matched the survey rates exactly, while 900 of the survey rates were under-reported relative to OCCRRA and 1782 survey rates were over-reported relative to OCCRRA.

Table 17. Overall error rate percentage summaries, comparing survey responses with submitted rate sheets.

TYPE	MISSING RATES	NON-MISSING RATES	MATCHED EXACTLY	UNDER REPORTED	OVER REPORTED	MEAN ERROR RATE	MEDIAN ERROR RATE
CENTERS	5461	3115	1186	741	1188	8.71	0
TYPE A	228	132	13	12	107	38.40	19.20
TYPE B	2697	871	118	159	594	26.12	14.29
TOTAL	8386	4118	1317	912	1889	13.34	0

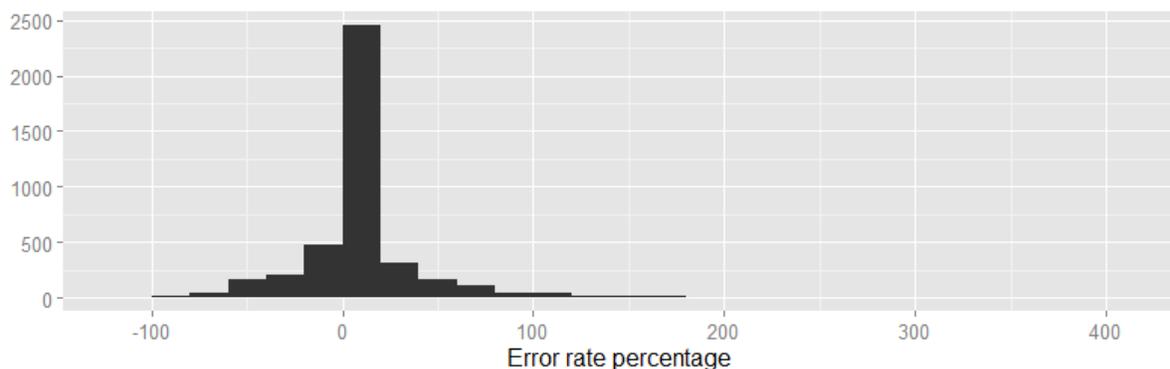


Figure 9. Overall error rates. A total of eight error rates are not plotted, ranging from 463% to 9616%.



6.3.2 Licensed centers

An overall summary of the error rates for licensed centers is given in Table 18 and Figure 10. Error rates for licensed centers. A total of eight error rates are not plotted, ranging from 463% to 9616%. The providers in this group provided a total of 3,115 rates that could be matched to a corresponding rate from the electronic survey. For these rates, the overall mean error rate is 8.71 percent, with a median error rate of 0.00 percent. A total of 1,186 rates matched the survey exactly, 741 rates were under-reported (the error rate percent was negative), and 1,188 rates were over-reported (the error rate percent was positive).

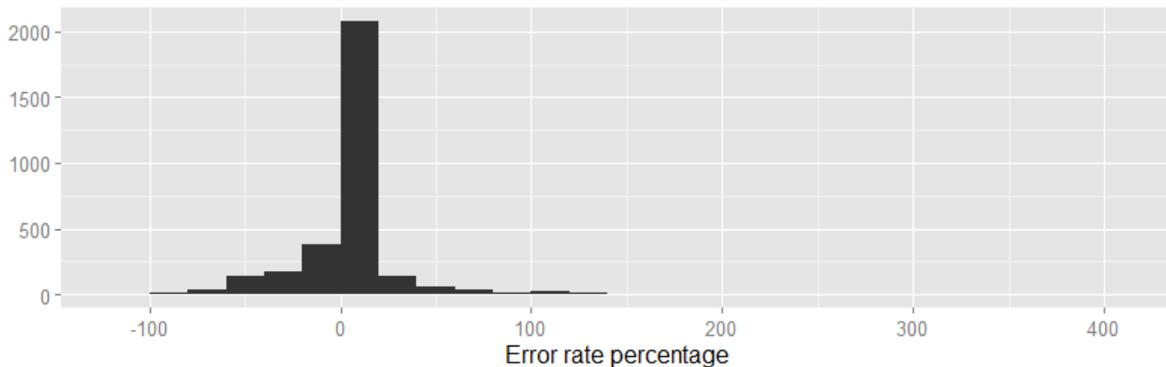


Figure 10. Error rates for licensed centers. A total of eight error rates are not plotted, ranging from 463% to 9616%.

In addition to summarizing the rate sheets overall, specific analyses were done for each age/enrollment category. Summary statistics for the age/enrollment-specific analyses are shown in Table 18. Overall, the average error rates are somewhat high, with the smallest errors occurring in the part-time rates for infants, toddlers, and school-age children. The part-time preschool error rates are large, as are all of the full-time rates. Furthermore, the standard deviations of the error rates are all quite large, indicating that rates are both inaccurate and imprecise.

While exploring summary statistics is interesting, it is also important to conduct inference through formal statistical analyses of these error rates. A nonparametric Wilcoxon signed rank test was used to determine whether or not there is a significant bias in the provider rates (see Table 19). Using a nonparametric test in this setting will account for the fact that the error rates are highly skewed (again, see Figure 10), include many zeroes, and contain several extreme outliers (values that are much larger than the rest of the data). Using a significance level of $\alpha = 0.05$, all of the full-time groups show significant bias (the group-specific P -value is less than $\alpha = 0.05$), while none of the part-time rates show significant bias. The full-time rates appear to be biased towards over-reporting, indicating that the survey rates were over-reported relative to OCCRA records.



Table 18. Error rate percentage summaries for licensed centers.

CATEGORY	# AVAILABLE	# MATCH	MEAN ERROR RATE (%)	STD DEV ERROR RATE (%)	STD ERROR MEAN (%)
INFANT, FULL-TIME	613	581	9.87	203.56	8.45
TODDLER, FULL-TIME	675	643	7.51	30.94	1.22
PRESCHOOL, FULL-TIME	692	653	7.03	135.96	5.32
SCHOOL AGE, FULL-TIME	592	509	17.10	48.71	2.16
INFANT, PART-TIME	510	72	-1.09	59.09	6.96
TODDLER, PART-TIME	599	101	0.36	94.88	9.44
PRESCHOOL, PART-TIME	656	149	18.63	428.24	35.08
SCHOOL AGE, PART-TIME	653	407	1.30	44.88	2.22

Table 19. Wilcoxon sign test for median error rate percentage among licensed centers.

CATEGORY	MEDIAN ERROR (%)	< ZERO	= ZERO	> ZERO	P-VALUE
INFANT, FULL-TIME	0	68	289	224	<0.001
TODDLER, FULL-TIME	0	91	306	246	<0.001
PRESCHOOL, FULL-TIME	0	79	303	271	<0.001
SCHOOL AGE, FULL-TIME	0	204	123	182	0.001
INFANT, PART-TIME	0	27	22	23	0.589
TODDLER, PART-TIME	0	43	25	33	0.189
PRESCHOOL, PART-TIME	0	59	29	61	0.641
SCHOOL AGE, PART-TIME	0	170	89	148	0.151

6.3.3 Type-A providers

An overall summary of the error rates for type-A providers is given in Table 20 and Figure 11. The providers in this group provided a total of 132 rates that could be matched to a corresponding rate from the electronic survey. For these rates, the overall mean error rate is 38.4 percent, with a median error rate of 19.2 percent. A total of 13 rates matched the survey exactly, 12 rates were under-reported (the error



rate percent was negative), and 107 rates were over-reported (the error rate percent was positive).

Table 20. Error rate percentage summaries for licensed centers.

CATEGORY	# AVAILABLE	# MATCH	MEAN ERROR RATE (%)	STD DEV ERROR RATE (%)	STD ERROR MEAN (%)
INFANT, FULL-TIME	37	16	25.65	39.46	9.87
TODDLER, FULL-TIME	32	13	20.47	66.73	18.51
PRESCHOOL, FULL-TIME	32	30	13.33	37.20	6.79
SCHOOL AGE, FULL-TIME	32	30	25.41	63.66	11.62
INFANT, PART-TIME	37	11	67.61	25.35	7.64
TODDLER, PART-TIME	32	9	66.29	47.33	15.78
PRESCHOOL, PART-TIME	32	9	82.73	48.32	16.11
SCHOOL AGE, PART-TIME	32	14	81.79	99.48	26.59

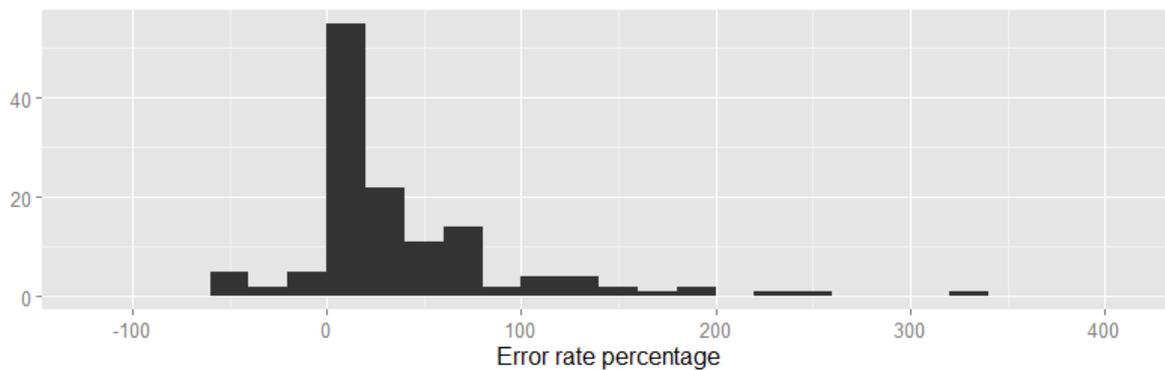


Figure 11. Error rates for type-A providers.

In addition to summarizing the rate sheets overall, specific analyses were done for each age/enrollment category. Summary statistics for the age/enrollment-specific analyses are shown in Table 20. Overall, the average error rates are extremely high across the board, and again the standard deviations of the error rates are all quite large, indicating that rates are both inaccurate and imprecise.

A Wilcoxon signed rank test was used to evaluate bias between survey-reported and OCCRA rates because the Type-A home provider error rates are still highly skewed,

include many zeroes, and contain outliers (see Figure 11). The analyses give results for the Type-A home providers which are similar to the licensed centers (see Table 21). Using a significance level of $\alpha = 0.05$, all of the age/rate groups show significant bias; because the medians are all greater than zero, this indicates that the survey rates were significantly over-reported, relative to the OCCRRA rates.

Table 21. Wilcoxon sign test for median error rate percentage among type-A providers.

CATEGORY	MEDIAN ERROR (%)	< ZERO	= ZERO	> ZERO	P-VALUE
INFANT, FULL-TIME	13.56	0	3	13	0.002
TODDLER, FULL-TIME	7.79	1	2	10	0.007
PRESCHOOL, FULL-TIME	10.61	2	6	22	0.002
SCHOOL AGE, FULL-TIME	19.55	9	2	19	0.011
INFANT, PART-TIME	50.19	0	0	11	0.004
TODDLER, PART-TIME	31.14	0	0	9	0.009
PRESCHOOL, PART-TIME	96.85	0	0	9	0.009
SCHOOL AGE, PART-TIME	39.15	0	0	14	0.001

6.3.4 Type-B providers

Overall summaries for the Type-B providers are shown in Table 22 and Figure 12. The providers in this group provided a total of 871 rates that could be matched to a corresponding rate from the electronic survey. For these rates, the overall mean error rate is higher than for the centers, at 26.1 percent, with a median error rate of 14.29 percent (also larger than for centers). A total of 118 rates matched the survey exactly, 159 rates were under-reported (the error rate percent was negative), and 594 rates were over-reported (the error rate percent was positive).

Table 22. Error rate percentage summaries for Type-B providers.

CATEGORY	# AVAILABLE	# MATCH	MEAN ERROR RATE (%)	STD ERROR MEAN (%)	STD DEV ERROR RATE (%)
INFANT, FULL-TIME	285	82	29.31	41.39	4.57
TODDLER, FULL-TIME	259	79	30.24	38.29	4.31
PRESCHOOL, FULL-TIME	247	219	24.44	44.03	2.98
SCHOOL AGE, FULL-TIME	235	195	29.49	38.31	2.74
INFANT, PART-TIME	281	54	18.20	41.59	5.66
TODDLER, PART-TIME	259	51	26.03	40.85	5.72
PRESCHOOL, PART-TIME	244	56	26.98	58.54	7.82
SCHOOL AGE, PART-TIME	234	135	22.46	50.13	4.31

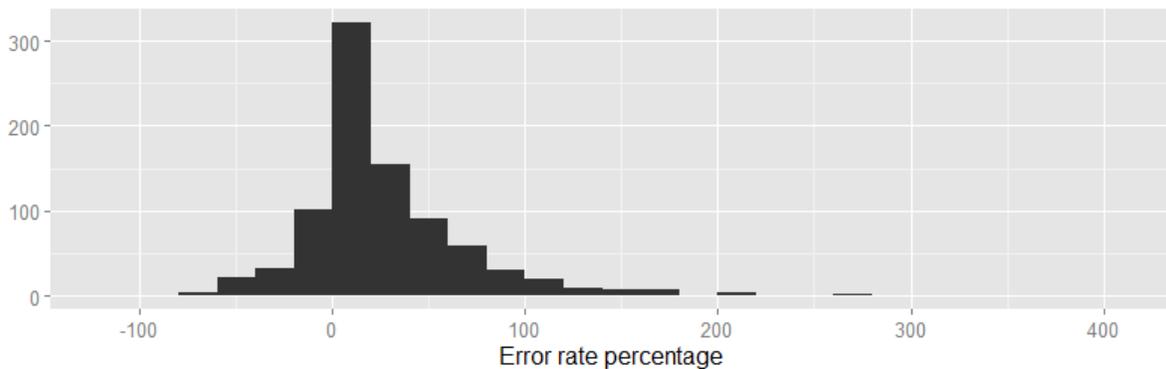


Figure 12. Error rates for Type-B home providers.

As with the licensed centers, age/rate category-specific analyses were conducted. Exploratory summaries are given in Table 22, from which we see that the error rates are all extremely high across all age/rate groups. Standard deviations are also quite large, which again indicates that the rates are imprecise as well as inaccurate. A Wilcoxon signed rank test was used to evaluate bias between survey-reported and OCCRRA rates because the Type-B home provider error rates are still highly skewed, include many zeroes, and contain outliers (see Figure 12). The analyses give results for the Type-B home providers which are similar to the licensed centers (see Table 23). Using a significance level of $\alpha = 0.05$, all of the age/rate groups show significant bias; because the medians are all greater than zero, this indicates that the survey rates were significantly over-reported, relative to the OCCRRA rates.

Table 23. Wilcoxon sign test for median error rate percentage among Type-B providers.

CATEGORY	MEDIAN ERROR (%)	< ZERO	= ZERO	> ZERO	P-VALUE
INFANT, FULL-TIME	22.93	7	10	65	<0.001
TODDLER, FULL-TIME	20.51	7	12	60	<0.001
PRESCHOOL, FULL-TIME	15.38	26	44	149	<0.001
SCHOOL AGE, FULL-TIME	11.11	42	27	126	<0.001
INFANT, PART-TIME	11.13	16	2	36	0.001
TODDLER, PART-TIME	13.71	11	4	36	<0.001
PRESCHOOL, PART-TIME	14.78	6	6	44	<0.001
SCHOOL AGE, PART-TIME	10.29	44	13	78	<0.001

7.0 Market Rate Structure Analysis

The goal of the market rate analysis is to characterize the distribution of child care market rates across the state of Ohio. Based on previous examination of market rates, it is known that providers tend to charge different rates based on the age of the child and the number of hours of care weekly. In addition, child care rates in some counties are generally higher than in other counties due to differences in population density and economic conditions within the counties. These three factors (age category, enrollment category, and geographic location) have been used to rationally divide the rates into meaningfully interpretable groups. Within each of the provider groups the 5th, 10th, 15th, 20th, 25th, 30th, 35th, 40th, 45th, 50th, 55th, 60th, 65th, 70th, 75th, 80th, 85th, 90th, and 95th percentiles associated with the rate distribution have been calculated and are reported in Section 8.0.

With respect to age, children are divided into five categories: infants (newborn through 17 months), toddlers (18 through 35 months), preschoolers (3 years through 5 years and not in school), school-aged (5 years through 12 years and in school) during the regular year, and school-aged during the summer. Within each of the age categories, rates were collected for three enrollment categories: full-time (more than 24 hours per week, part-time (7 to 24.9 hours per week, and hourly (less than 7 hours per week). The categorization scheme based on age and enrollment resulted in 15 categories.

Dividing the providers into rational and interpretable groups, where the rate structure for the providers is similar within the group but different across the groups, is more complicated. Conceptually, the provider grouping strategy can range from making each provider its own group (requiring over 10,000 groups) to simply grouping all providers together into one large group and using a single state-wide rate. Neither of these extreme options is practical, either because it requires too many rates when setting them for individual providers or because it ignores clear differences between providers when using a single rate. One compromise is to set the rate structures by county. This compromise would require the creation of 88 groups. This concept is appealing because of the known geographic differences in rate structures across the counties. This compromise is not completely satisfactory, however, because it is still logistically difficult to manage 88 different rate structures for centers, Type A and Type B providers. Other states reduce the number of rate structures by grouping counties either geographically within state (i.e., regions) or by the population density (i.e., urbanicity) of the county.

When analyzing the data obtained in the 2006 Ohio market rate survey, another compromise method was devised. In this method, counties were used as the basic provider grouping factor, and then counties were placed into groups such that the rate structure for counties within a group is similar, but the rate structures for counties in separate groups were different. This method was repeated for the 2008, 2010, and 2012 market rate surveys.



The analysis methodology used to determine the county groups is based on the concept of the rate structure established by each provider. The formal statistical analysis methodology used to guide the clustering of the counties is known as principal components analysis. This statistical technique directly addresses the case of multiple, highly-correlated responses from each survey respondent (i.e., the 15 rates). It reduces, or summarizes, the information contained in the 15 rates to a smaller number of statistically independent responses that account for the majority of the variation observed in the original rate data while still having a direct interpretation within the context of the application. The reduction of the original rate data to a smaller subset of interpretable principal components is important to the practical execution of an effective and meaningful county clustering strategy. Once the data are reduced, a formal statistical method known as cluster analysis is used to determine both the number of county groups and membership within the county groups.

The following three sections describe exactly how the components used to cluster the counties were created and how the clustering analysis was performed.

7.1 Exploratory Analysis of Average County Rates

The analysis began by examining the number of responses for each of the 15 age/enrollment categories. This analysis showed that there were a large number of providers who did not provide hourly rates. Because of the large number of missing hourly rates, the five corresponding enrollment categories were eliminated from the cluster analysis.

The next step in the clustering process was calculating the average rate for each of the 10 remaining rate/enrollment categories for each Ohio county:

- INF50RT – Infants, 25 – 60 hours/week,
- INF20RT – Infants, 7 – 24.9 hours/week,
- TOD50RT – Toddlers, 25 – 60 hours/week,
- TOD20RT – Toddlers, 7 – 24.9 hours/week,
- PRE50RT – Preschool, 25 – 60 hours/week,
- PRE20RT – Preschool, 7 – 24.9 hours/week,
- SCH50RT – School-age (school-year), 25 – 60 hours/week,
- SCH20RT – School-age (school-year), 7 – 24.9 hours/week,
- SUM50RT – School-age (summer and vacations), 25 – 60 hours/week,
- SUM20RT – School-age (summer and vacations), 7 – 24.9 hours/week.

These averages were over the raw rates, un-weighted by the number of unsubsidized children receiving the rate. Of the 88 counties, three of them had no respondents (Harrison, Holmes, Morgan), so the average rates were calculated for the remaining 85 counties.



Once the average rates were obtained for each county, a correlation analysis of all pairs of the ten rate variables was conducted. The correlation analysis showed that a high positive correlation exists among most of the rates. This suggests that the counties with lower rates for one age/enrollment category tend to have lower rates across all other child care service categories while those with higher rates in one category tend to have higher rates across all the categories.

7.2 Principal Components Analysis

A principal components analysis was conducted using the set of 10 average rate values for each county. Of the 85 counties where providers responded, six did not have values for all 10 rate categories (Auglaize, Jackson, Knox, Noble, Paulding, Wyandot). As a result, these six counties were removed from the principal components analysis along with the three counties without provider responses.

The principal components analysis demonstrated that due to the strong statistical correlation structure among the 10 average rates, the information contained in the 10 average rates can be reduced to three significant principal components. The first component is essentially the average of the 10 rates, and it explains over 75% of the variation in the original county-wide rate data. This result suggests that the most important factor for differentiating between child-care rates among counties is their overall average rate across all categories. The second principal component is essentially the difference between full-time and part-time rates, averaged across all age groups. That this component is significant suggests that in some counties there is a greater difference between full-time rates and part-time rates for all age groups than other counties. The third component is the total school-age rates for part-time students (7 – 24.9 hours/week) and full-time students (25 – 60 hours/week). That this component is significant indicates that there is a greater difference in the total rates of full-time and part-time for school-age children in some counties compared to other counties.

Despite the fact that the second and third components were meaningful, they did not explain a large amount of variation -- approximately 19% of the overall variation. As a result, analysis continued using only the first component for differentiating between counties. Figure 13 shows a principal component map for the first two principal components. Note that the full-time rates (variables ending with "50RT") all point in a similar direction and part-time rates also point in a similar direction that is different than the full-time rates.



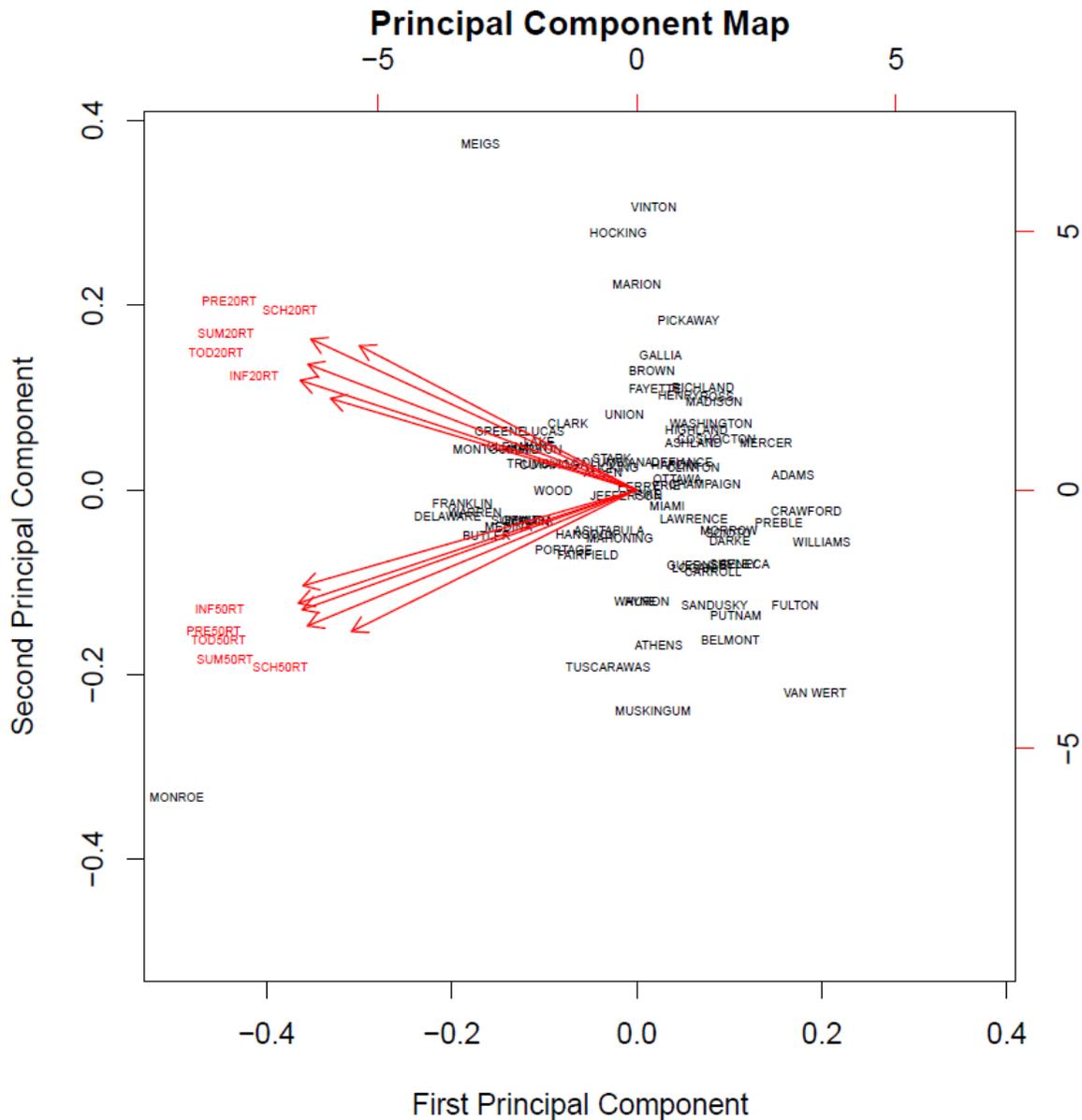


Figure 13. Principal Component Analysis Results for the First Two PCs

7.3 Cluster Analysis

The clustering strategy used only the first principal component (overall average rate) to divide counties into groups. The first principal component score was calculated for each county, and hierarchical clustering based on group means was used to group the counties into distinct groups. The hierarchical clustering algorithm employed begins with each county as a separate cluster and combines the two clusters with the

smallest mean difference in scores from the first principal component. This is repeated until all counties and clusters have been joined into a single cluster. Each time counties and clusters are joined, there is an accompanying statistical analysis that addresses whether the counties/clusters that were joined should be in separate clusters. At the completion of the analysis, the information about distance between clusters and results of the statistical analyses concerning cluster joining are used to determine the optimal number of clusters. The result of the clustering process is that each county is assigned to one, and only one, group.

The nine counties that had insufficient data for the principal component analysis (Auglaize, Harrison, Holmes, Jackson, Knox, Morgan, Noble, Paulding, Wyandot) were excluded from the preliminary cluster analysis. Once the final clustering of the remaining 79 counties was completed, the six counties which have insufficient data were placed into clusters based on their distances from the center of the clusters that are obtained from the 79 counties. In particular,

- For each of the clusters that are obtained from the 79 counties, the average of the mean rates for each of the ten categories was calculated (known as the center of the clusters).
- For each one of the six counties which does not have all 10 categories' data available, average squared differences (distances) from the center of each cluster to the unassigned county were calculated, and the county was assigned to the cluster with the smallest average squared difference.

The remaining three counties (Harrison, Holmes, Morgan), which have no rate information available, were placed into clusters using results from the 2012 and 2014 Market Rate Surveys. In particular,

- For each of the three counties, the 2012 market rate survey was used to identify three to five neighboring counties that were in the same 2012 cluster as the excluded county,
- The 2014 cluster assignments for the selected neighboring counties were checked to see if they were the same for all neighbors, and
- if they were the same, the county excluded from the cluster analysis was added to the common 2014 cluster of its neighboring counties; if the neighboring counties were not all in a single 2014 cluster, the excluded county was added to the cluster containing the majority of the neighbors.

Figure 14 shows a dendrogram that graphically represents the results of the full clustering process. The clustering process joins counties/clusters from the left to the

right of the figure, so that the highest horizontal bar represents the clusters that were joined at the last step. At each step, the cluster analysis output provides several measures of performance, including analysis of variance estimates of the proportion of the variability in principal components scores due to differences within clusters and differences between clusters.

Based on similar analyses from past years, it was concluded that four clusters are most appropriate for dividing counties. In particular, the two clusters that were joined in the step going from five to four clusters were not statistically different based on the analysis, while the two clusters joined during the step going from four to three clusters were significantly different. The categorization of the counties into the four clusters is shown in Figure 15 and reported in Table 24.

Table 24 also shows the 2012 clusters and indicates whether the county changed clusters relative to the approximate alignment based on the first principal component. Table 24 shows that 52 counties moved up a cluster while four counties moved down a cluster from 2012 to 2014. Of the counties that moved down in their relative clusters, Van Wert County moved down by two clusters while the other three counties moved down only one cluster. Of the counties that moved up in the relative cluster, Jackson and Meigs Counties moved up three clusters, Clark, Fayette, Gallia, Monroe, Morgan, Muskingum, Perry, Pike and Portage Counties moved up two clusters while all other counties moved up one cluster.



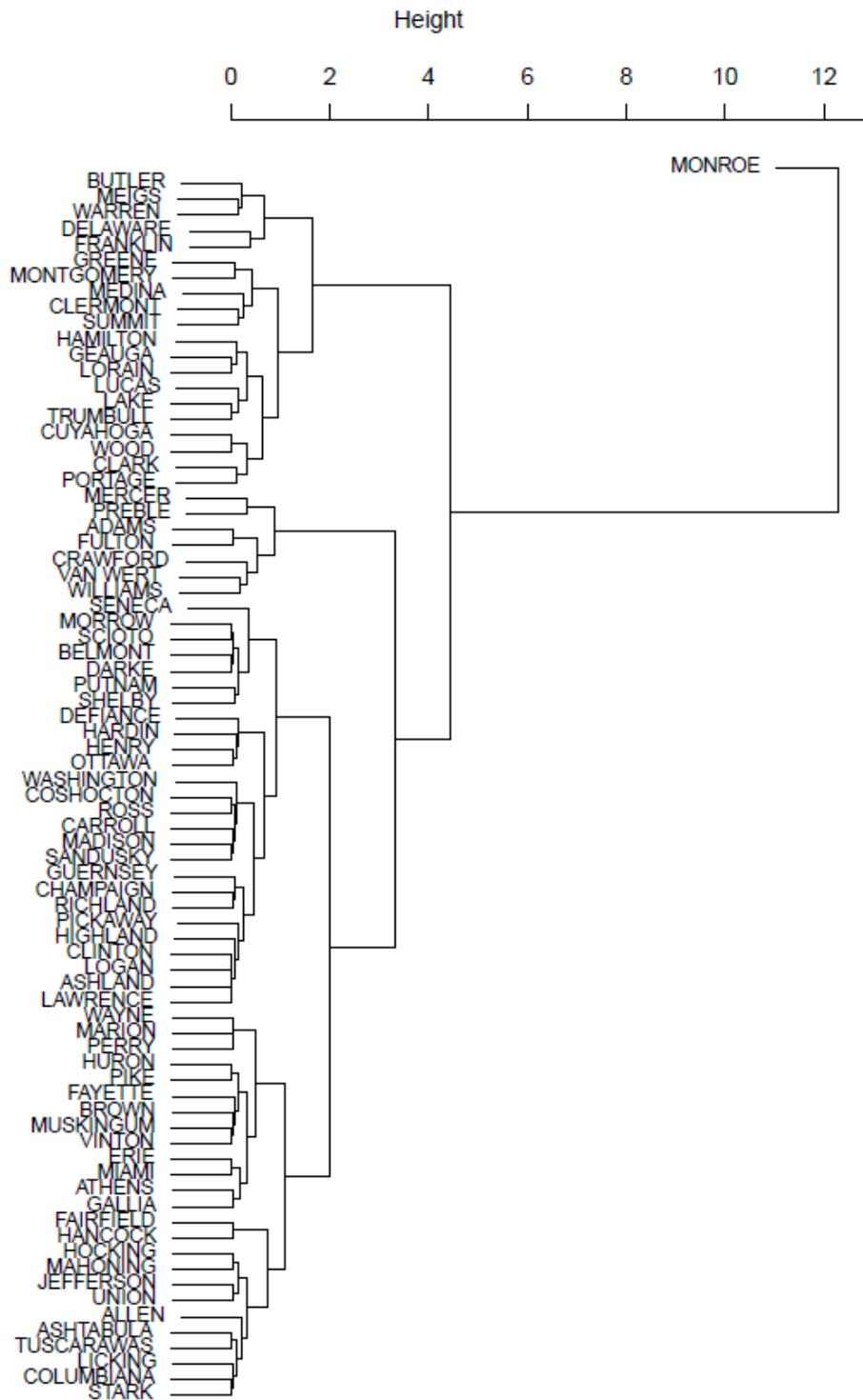


Figure 14. Cluster Analysis Dendrogram



Clustering Analysis of Ohio Counties

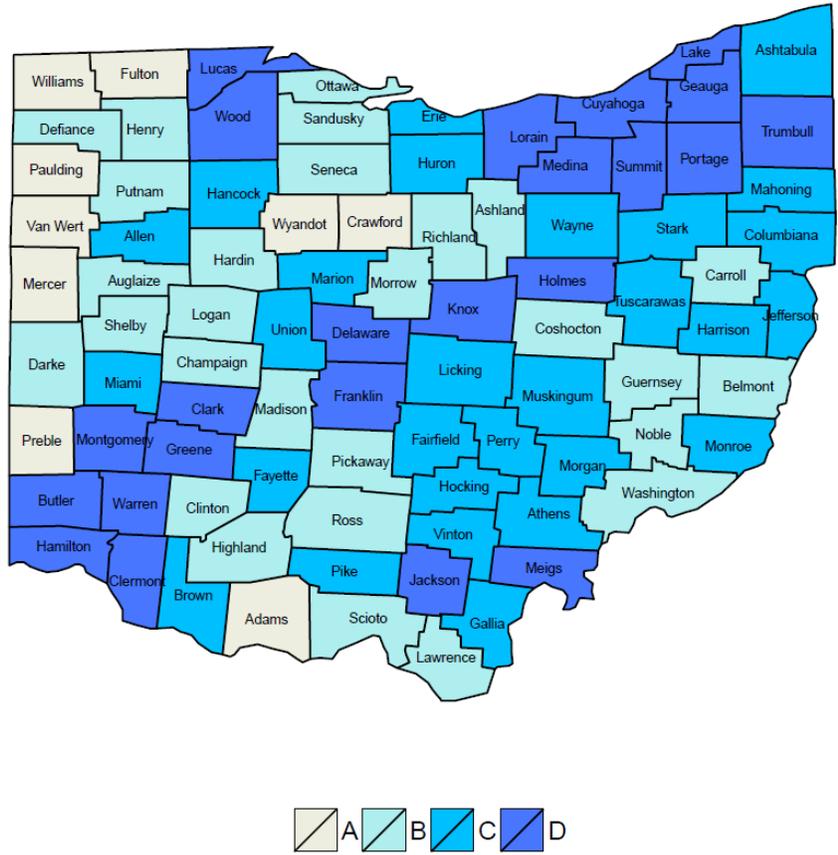


Figure 15. County Groupings Using Four Clusters



Table 24. County Groupings for the 2012 ODJFS Market Rate Survey

County	2014 Cluster	2012 Cluster	County	2014 Cluster	2012 Cluster	County	2014 Cluster	2012 Cluster
Adams	A	A	Guernsey *	B	C	Morrow	B	B
Allen +	C	B	Hamilton	D	D	Muskingum +	C	A
Ashland +	B	A	Hancock +	C	B	Noble +	B	A
Ashtabula +	C	B	Hardin +	B	A	Ottawa	B	B
Athens +	C	B	Harrison +	C	B	Paulding	A	A
Auglaize *	B	C	Henry +	B	A	Perry +	C	A
Belmont +	B	A	Highland +	B	A	Pickaway *	B	C
Brown +	C	B	Hocking +	C	B	Pike +	C	A
Butler	D	D	Holmes	D	D	Portage +	D	B
Carroll	B	B	Huron +	C	B	Preble	A	A
Champaign +	B	A	Jackson +	D	A	Putnam +	B	A
Clark +	D	B	Jefferson *	C	D	Richland +	B	A
Clermont	D	D	Knox +	D	C	Ross +	B	A
Clinton +	B	A	Lake	D	D	Sandusky +	B	A
Columbiana +	C	B	Lawrence	B	B	Scioto	B	B
Coshocton +	B	A	Licking	C	C	Seneca	B	B
Crawford	A	A	Logan +	B	A	Shelby +	B	A
Cuyahoga +	D	C	Lorain	D	D	Stark	C	C
Darke +	B	A	Lucas +	D	C	Summit	D	D
Defiance +	B	A	Madison +	B	A	Trumbull +	D	C
Delaware	D	D	Mahoning	C	C	Tuscarawas +	C	B
Erie	C	C	Marion +	C	B	Union +	C	B
Fairfield	C	C	Medina +	D	C	Van Wert *	A	C
Fayette +	C	A	Meigs +	D	A	Vinton +	C	A
Franklin	D	D	Mercer	A	A	Warren	D	D
Fulton	A	A	Miami +	C	B	Washington +	B	A
Gallia +	C	A	Monroe +	C	A	Wayne +	C	B
Geauga	D	D	Montgomery	D	D	Williams	A	A
Greene +	D	C	Morgan +	C	A	Wood +	D	C
						Wyandot	A	A

* - county moved to a lower cluster

+ - county moved to a higher cluster



8.0 Estimated Rate Distributions and Calculated Percentiles

The 10th, 15th, 20th, 25th, 30th, 35th, 40th, 45th, 50th, 55th, 60th, 65th, 70th, 75th, 80th, 85th, 90th, and 95th percentiles for the distribution of the rates for each of the 15 child care service categories were calculated for both state-wide and for each of the four county groupings defined in Table 24. At the state-wide and county grouping levels, the percentiles were calculated separately for the following types of providers:

- Licensed center providers only,
- Licensed Type-A providers only, and
- Licensed Type-B providers only.

The percentile calculations were based on a weighting of the provider rates by the number of unsubsidized children. These percentile calculations were performed separately for each of the market rate distributions of interest. Thus, at the state-wide level 45 sets of percentiles were calculated (3 provider types × 15 child care service categories), and at the county group level 180 sets of percentiles were calculated (3 provider types × 15 child care service categories × 4 county groups).

For each set of percentiles, the same methodology was used. This methodology can be made most clear by considering as an example the calculation for just one set of percentiles. As an example, consider the calculation of the state-wide percentiles for full-time weekly infant care for all licensed providers together. In this case the rate for full-time weekly infant care and the number of unsubsidized full-time infants in care were captured for each licensed provider that responded to the survey. Using these rates and the numbers of unsubsidized children, a weighted rate was calculated using the number of unsubsidized children as the weighting factor. Essentially, these calculations are performed by replicating each rate by the number of children receiving that rate. Next, a series of histograms for each rate distribution were produced. These rate distributions exhibited a more right-skewed distribution than was seen in market rate surveys prior to 2012. As a result, gamma distributions were used to calculate the percentile distributions rather than the normal distributions used in past iterations of the survey.

The tables that follow report the percentiles of the estimated state-wide child care market rate distributions across all 15 age/rate categories. Table 25 - Table 27 report the statewide rates, aggregated across the entire state for providers within each of the three types. Table 28 - Table 45 report various percentiles for Licensed Centers within the four county clusters, Table 46 - Table 63 report the various percentiles for Licensed Type-A Homes within the four county clusters, and Table 64 - Table 81 provide various percentiles for Type B Homes within the four county clusters. For all tables, those cells that have missing values (*) indicate the percentiles were not calculated due to small sample sizes (< 4 providers).



Table 25. Statewide Rate Percentiles for Licensed Centers

Percentile	Infant			Toddler			Pre-school			School-age			School-age Summer		
	FT	PT	Hr	FT	PT	Hr	FT	PT	Hr	FT	PT	Hr	FT	PT	Hr
10	126.29	83.61	5.10	86.82	71.20	4.56	116.42	55.38	3.50	62.44	37.96	3.23	103.05	58.35	3.46
15	140.24	94.57	6.98	103.73	80.23	5.96	125.22	62.89	4.60	71.48	43.57	4.06	110.77	65.01	4.50
20	152.06	103.97	8.82	118.74	87.96	7.28	132.53	69.35	5.64	79.30	48.43	4.83	117.19	70.67	5.48
25	162.73	112.53	10.66	132.79	94.99	8.57	139.03	75.25	6.67	86.46	52.89	5.57	122.90	75.79	6.44
30	172.74	120.62	12.53	146.35	101.62	9.86	145.05	80.83	7.70	93.26	57.13	6.30	128.18	80.60	7.39
35	182.39	128.46	14.47	159.76	108.03	11.17	150.79	86.25	8.75	99.89	61.26	7.03	133.21	85.24	8.36
40	191.87	136.22	16.50	173.23	114.38	12.53	156.37	91.61	9.83	106.46	65.36	7.77	138.10	89.81	9.36
45	201.36	144.02	18.64	186.99	120.75	13.94	161.90	97.01	10.97	113.09	69.50	8.55	142.95	94.38	10.41
50	210.99	151.98	20.92	201.23	127.24	15.44	167.47	102.54	12.17	119.89	73.75	9.36	147.83	99.03	11.51
55	220.93	160.23	23.39	216.18	133.97	17.04	173.16	108.27	13.46	126.95	78.17	10.22	152.82	103.83	12.69
60	231.35	168.92	26.10	232.12	141.05	18.78	179.08	114.30	14.86	134.41	82.83	11.14	158.01	108.87	13.97
65	242.46	178.23	29.10	249.40	148.62	20.70	185.33	120.77	16.40	142.42	87.84	12.16	163.49	114.24	15.38
70	254.53	188.39	32.51	268.51	156.88	22.85	192.08	127.85	18.14	151.19	93.34	13.29	169.40	120.08	16.96
75	268.01	199.78	36.48	290.18	166.13	25.34	199.54	135.78	20.15	161.05	99.52	14.59	175.93	126.61	18.78
80	283.55	212.98	41.24	315.61	176.84	28.31	208.07	144.99	22.56	172.51	106.71	16.13	183.40	134.15	20.96
85	302.39	229.07	47.29	347.04	189.89	32.05	218.31	156.22	25.58	186.52	115.50	18.05	192.37	143.30	23.70
90	327.23	250.41	55.65	389.33	207.16	37.17	231.66	171.14	29.74	205.17	127.22	20.67	204.05	155.37	27.45
95	366.41	284.31	69.65	457.83	234.57	45.67	252.40	194.88	36.63	234.94	145.94	24.98	222.20	174.44	33.66

Table 26. Statewide Rate Percentiles for Licensed Type A Homes

Percentile	Infant			Toddler			Pre-school			School-age			School-age Summer		
	FT	PT	Hr	FT	PT	Hr	FT	PT	Hr	FT	PT	Hr	FT	PT	Hr
10	192.42	106.36	4.54	180.32	146.56	4.68	121.76	75.97	4.07	111.48	90.89	2.68	101.31	78.04	2.99
15	193.93	114.26	6.56	181.74	147.72	6.28	129.18	84.22	5.18	112.36	91.61	4.13	109.61	84.70	4.03
20	195.14	120.81	8.59	182.87	148.64	7.81	135.29	91.19	6.20	113.06	92.18	5.67	116.53	90.27	5.04
25	196.18	126.64	10.69	183.85	149.43	9.33	140.68	97.49	7.20	113.66	92.67	7.31	122.69	95.24	6.04
30	197.12	132.03	12.87	184.73	150.15	10.86	145.65	103.39	8.18	114.20	93.12	9.07	128.42	99.86	7.06
35	198.00	137.16	15.16	185.55	150.81	12.43	150.36	109.07	9.17	114.71	93.53	10.95	133.88	104.27	8.11
40	198.83	142.15	17.59	186.33	151.45	14.07	154.92	114.65	10.18	115.19	93.92	12.98	139.21	108.58	9.20
45	199.63	147.10	20.20	187.08	152.06	15.79	159.42	120.23	11.23	115.66	94.30	15.20	144.49	112.86	10.35
50	200.43	152.08	23.01	187.83	152.67	17.62	163.93	125.90	12.34	116.12	94.68	17.62	149.83	117.18	11.57
55	201.23	157.17	26.07	188.57	153.27	19.59	168.53	131.74	13.52	116.58	95.05	20.30	155.29	121.61	12.88
60	202.04	162.45	29.47	189.34	153.89	21.73	173.29	137.86	14.79	117.05	95.44	23.29	160.98	126.22	14.32
65	202.88	168.04	33.27	190.12	154.53	24.11	178.30	144.38	16.18	117.54	95.84	26.68	167.00	131.11	15.92
70	203.77	174.06	37.62	190.96	155.21	26.80	183.68	151.47	17.74	118.06	96.26	30.60	173.50	136.40	17.72
75	204.74	180.72	42.71	191.86	155.95	29.91	189.61	159.38	19.54	118.61	96.71	35.24	180.70	142.26	19.82
80	205.81	188.33	48.89	192.87	156.77	33.64	196.36	168.49	21.67	119.24	97.22	40.91	188.95	148.98	22.33
85	207.07	197.46	56.79	194.05	157.73	38.35	204.43	179.54	24.33	119.97	97.82	48.22	198.88	157.07	25.50
90	208.66	209.36	67.80	195.54	158.94	44.85	214.88	194.09	27.97	120.89	98.57	58.53	211.84	167.65	29.89
95	211.04	227.83	86.43	197.77	160.75	55.68	231.00	217.02	33.97	122.27	99.69	76.15	232.04	184.17	37.21

Table 27. Statewide Rate Percentiles for Licensed Type B Homes

Percentile	Infant			Toddler			Pre-school			School-age			School-age Summer		
	FT	PT	Hr	FT	PT	Hr	FT	PT	Hr	FT	PT	Hr	FT	PT	Hr
10	110.62	63.97	2.18	98.05	63.82	2.25	94.15	59.57	2.13	74.39	49.70	1.84	39.75	59.18	1.77
15	118.82	70.27	2.91	107.25	70.48	3.00	102.62	65.92	2.83	83.47	56.00	2.50	54.72	65.42	2.52
20	125.62	75.57	3.62	114.98	76.11	3.71	109.72	71.28	3.50	91.22	61.40	3.14	69.35	70.69	3.26
25	131.66	80.33	4.31	121.90	81.17	4.41	116.07	76.12	4.16	98.24	66.30	3.77	84.05	75.43	4.02
30	137.26	84.78	5.02	128.36	85.92	5.12	121.98	80.65	4.83	104.86	70.93	4.41	99.06	79.88	4.81
35	142.58	89.04	5.74	134.54	90.47	5.85	127.64	85.01	5.51	111.26	75.41	5.08	114.59	84.15	5.63
40	147.76	93.22	6.49	140.60	94.95	6.61	133.17	89.29	6.22	117.58	79.84	5.77	130.85	88.34	6.50
45	152.89	97.39	7.27	146.62	99.42	7.40	138.67	93.57	6.96	123.91	84.28	6.50	148.06	92.54	7.42
50	158.05	101.62	8.11	152.72	103.95	8.24	144.24	97.92	7.74	130.37	88.82	7.28	166.46	96.79	8.42
55	163.33	105.96	9.01	158.99	108.62	9.14	149.94	102.39	8.59	137.04	93.52	8.11	186.36	101.17	9.50
60	168.81	110.50	9.99	165.53	113.51	10.13	155.90	107.08	9.51	144.06	98.45	9.03	208.18	105.76	10.69
65	174.60	115.33	11.07	172.48	118.72	11.21	162.21	112.07	10.53	151.55	103.74	10.05	232.46	110.64	12.03
70	180.85	120.56	12.30	180.00	124.37	12.44	169.05	117.49	11.68	159.73	109.51	11.20	260.01	115.95	13.55
75	187.75	126.38	13.72	188.36	130.66	13.87	176.64	123.54	13.01	168.87	115.96	12.53	292.05	121.86	15.33
80	195.64	133.08	15.42	197.97	137.91	15.57	185.35	130.51	14.61	179.44	123.44	14.14	330.63	128.67	17.48
85	205.11	141.17	17.57	209.56	146.69	17.72	195.85	138.94	16.61	192.30	132.54	16.17	379.56	136.91	20.23
90	217.44	151.80	20.53	224.77	158.24	20.67	209.61	150.05	19.38	209.31	144.60	18.98	447.35	147.77	24.05
95	236.59	168.49	25.45	248.59	176.41	25.60	231.12	167.55	23.99	236.25	163.74	23.67	560.96	164.85	30.49

Table 28. 10th Percentile Market Rate for Licensed Centers by Cluster

Age	Enrollment	A	B	C	D
Infant	FT	120.31	104.95	141.60	139.84
	PT	53.83	57.53	75.27	100.99
	Hr	1.97	3.85	5.07	5.98
Toddler	FT	111.89	111.69	123.50	88.69
	PT	45.81	55.84	59.01	79.91
	Hr	1.89	3.17	3.06	5.33
Pre-school	FT	101.50	104.87	99.63	131.41
	PT	33.66	50.78	45.93	63.73
	Hr	2.18	2.51	2.47	4.40
School-age	FT	11.63	69.18	73.24	64.25
	PT	9.16	27.95	33.34	44.03
	Hr	1.16	1.83	1.99	4.51
Summer	FT	81.61	104.21	98.63	110.36
	PT	40.30	51.11	50.30	66.26
	Hr	2.17	2.16	2.32	4.56

Table 29. 15th Percentile Market Rate for Licensed Centers by Cluster

Age	Enrollment	A	B	C	D
Infant	FT	121.92	110.72	148.30	154.72
	PT	58.20	63.78	83.36	112.32
	Hr	2.79	5.13	6.68	8.10
Toddler	FT	114.03	115.59	130.38	107.26
	PT	49.69	61.15	66.33	89.23
	Hr	2.61	4.16	4.21	6.84
Pre-school	FT	103.32	108.81	107.45	139.94
	PT	37.45	54.89	51.93	71.67
	Hr	2.97	3.19	3.31	5.66
School-age	FT	16.75	74.01	80.03	73.90
	PT	12.01	31.91	38.35	49.78
	Hr	1.55	2.30	2.63	5.45
Summer	FT	84.76	106.73	104.51	118.39
	PT	42.84	55.20	55.98	73.14
	Hr	2.47	2.80	3.15	5.75



Table 30. 20th Percentile Market Rate for Licensed Centers by Cluster

Age	Enrollment	A	B	C	D
Infant	FT	123.21	115.46	153.77	167.29
	PT	61.84	69.06	90.20	121.93
	Hr	3.61	6.36	8.21	10.15
Toddler	FT	115.76	118.75	136.03	123.90
	PT	52.93	65.62	72.59	97.16
	Hr	3.31	5.09	5.33	8.24
Pre-school	FT	104.78	112.02	113.96	146.99
	PT	40.68	58.32	57.07	78.45
	Hr	3.75	3.82	4.11	6.84
School-age	FT	21.92	78.02	85.73	82.26
	PT	14.70	35.33	42.69	54.71
	Hr	1.92	2.73	3.23	6.28
Summer	FT	87.31	108.77	109.35	125.05
	PT	44.94	58.61	60.79	78.95
	Hr	2.73	3.39	3.95	6.84

Table 31. 25th Percentile Market Rate for Licensed Centers by Cluster

Age	Enrollment	A	B	C	D
Infant	FT	124.32	119.63	158.57	178.63
	PT	65.08	73.83	96.37	130.62
	Hr	4.44	7.57	9.70	12.19
Toddler	FT	117.26	121.51	141.00	139.55
	PT	55.82	69.63	78.27	104.34
	Hr	4.02	6.00	6.46	9.60
Pre-school	FT	106.05	114.82	119.76	153.22
	PT	43.59	61.37	61.75	84.61
	Hr	4.52	4.43	4.90	7.98
School-age	FT	27.22	81.57	90.84	89.94
	PT	17.33	38.46	46.68	59.20
	Hr	2.29	3.15	3.83	7.07
Summer	FT	89.55	110.54	113.63	130.96
	PT	46.80	61.64	65.14	84.18
	Hr	2.97	3.98	4.74	7.88



Table 32. 30th Percentile Market Rate for Licensed Centers by Cluster

Age	Enrollment	A	B	C	D
Infant	FT	125.33	123.46	162.97	189.25
	PT	68.09	78.29	102.15	138.77
	Hr	5.31	8.79	11.21	14.26
Toddler	FT	118.61	124.03	145.58	154.75
	PT	58.51	73.36	83.63	111.08
	Hr	4.75	6.92	7.62	10.95
Pre-school	FT	107.19	117.37	125.13	158.97
	PT	46.32	64.20	66.18	90.41
	Hr	5.31	5.03	5.70	9.12
School-age	FT	32.74	84.85	95.59	97.25
	PT	19.98	41.42	50.47	63.44
	Hr	2.66	3.56	4.43	7.84
Summer	FT	91.58	112.15	117.56	136.43
	PT	48.51	64.46	69.23	89.07
	Hr	3.20	4.56	5.55	8.92

Table 33. 35th Percentile Market Rate for Licensed Centers by Cluster

Age	Enrollment	A	B	C	D
Infant	FT	126.26	127.09	167.12	199.46
	PT	70.96	82.59	107.72	146.63
	Hr	6.21	10.04	12.74	16.40
Toddler	FT	119.87	126.39	149.90	169.83
	PT	61.08	76.94	88.81	117.59
	Hr	5.50	7.85	8.81	12.31
Pre-school	FT	108.26	119.77	130.26	164.42
	PT	48.95	66.90	70.47	96.03
	Hr	6.12	5.63	6.52	10.27
School-age	FT	38.54	87.97	100.15	104.38
	PT	22.67	44.31	54.16	67.56
	Hr	3.04	3.97	5.05	8.60
Summer	FT	93.50	113.65	121.29	141.64
	PT	50.13	67.15	73.17	93.78
	Hr	3.42	5.15	6.39	9.96

Table 34. 40th Percentile Market Rate for Licensed Centers by Cluster

Age	Enrollment	A	B	C	D
Infant	FT	127.15	130.59	171.12	209.50
	PT	73.76	86.82	113.18	154.36
	Hr	7.16	11.34	14.33	18.62
Toddler	FT	121.08	128.66	154.08	185.04
	PT	63.58	80.45	93.92	124.01
	Hr	6.29	8.81	10.06	13.71
Pre-school	FT	109.28	122.08	135.25	169.71
	PT	51.55	69.54	74.71	101.58
	Hr	6.97	6.25	7.37	11.45
School-age	FT	44.68	91.00	104.60	111.46
	PT	25.45	47.17	57.84	71.62
	Hr	3.43	4.39	5.68	9.36
Summer	FT	95.34	115.09	124.89	146.70
	PT	51.70	69.76	77.04	98.40
	Hr	3.64	5.75	7.26	11.01

Table 35. 45th Percentile Market Rate for Licensed Centers by Cluster

Age	Enrollment	A	B	C	D
Infant	FT	128.02	134.04	175.05	219.52
	PT	76.54	91.05	118.65	162.09
	Hr	8.17	12.71	15.99	20.96
Toddler	FT	122.26	130.88	158.20	200.61
	PT	66.07	83.94	99.06	130.43
	Hr	7.12	9.82	11.39	15.17
Pre-school	FT	110.27	124.34	140.19	174.94
	PT	54.14	72.15	78.98	107.14
	Hr	7.86	6.89	8.26	12.68
School-age	FT	51.25	93.99	109.04	118.61
	PT	28.36	50.05	61.55	75.71
	Hr	3.84	4.82	6.35	10.15
Summer	FT	97.15	116.49	128.45	151.71
	PT	53.25	72.36	80.92	103.01
	Hr	3.86	6.39	8.17	12.11

Table 36. 50th Percentile Market Rate for Licensed Centers by Cluster

Age	Enrollment	A	B	C	D
Infant	FT	128.88	137.50	178.98	229.70
	PT	79.34	95.34	124.20	169.96
	Hr	9.26	14.16	17.74	23.46
Toddler	FT	123.42	133.09	162.33	216.79
	PT	68.59	87.48	104.29	136.97
	Hr	8.01	10.88	12.80	16.70
Pre-school	FT	111.26	126.60	145.18	180.19
	PT	56.78	74.78	83.33	112.82
	Hr	8.82	7.57	9.21	13.98
School-age	FT	58.34	97.01	113.53	125.95
	PT	31.43	53.00	65.36	79.89
	Hr	4.28	5.28	7.05	10.96
Summer	FT	98.95	117.88	132.02	156.75
	PT	54.81	74.98	84.86	107.68
	Hr	4.09	7.06	9.15	13.26

Table 37. 55th Percentile Market Rate for Licensed Centers by Cluster

Age	Enrollment	A	B	C	D
Infant	FT	129.74	141.01	182.97	240.19
	PT	82.21	99.77	129.91	178.07
	Hr	10.45	15.72	19.63	26.15
Toddler	FT	123.42	133.09	162.33	216.79
	PT	68.59	87.48	104.29	136.97
	Hr	8.01	10.88	12.80	16.70
Pre-school	FT	112.25	128.88	150.29	185.54
	PT	59.50	77.48	87.85	118.69
	Hr	9.85	8.29	10.23	15.36
School-age	FT	66.09	100.08	118.14	133.59
	PT	34.73	56.07	69.32	84.21
	Hr	4.75	5.76	7.81	11.82
Summer	FT	100.77	119.29	135.65	161.90
	PT	56.39	77.66	88.93	112.50
	Hr	4.33	7.77	10.21	14.48

Table 38. 60th Percentile Market Rate for Licensed Centers by Cluster

Age	Enrollment	A	B	C	D
Infant	FT	130.62	144.64	187.08	251.16
	PT	85.20	104.40	135.90	186.58
	Hr	11.75	17.41	21.68	29.09
Toddler	FT	125.79	137.62	170.86	252.03
	PT	73.84	94.90	115.40	150.81
	Hr	10.04	13.26	16.01	20.10
Pre-school	FT	113.26	131.22	155.59	191.09
	PT	62.36	80.29	92.60	124.87
	Hr	10.98	9.06	11.35	16.86
School-age	FT	74.64	103.28	122.95	141.66
	PT	38.30	59.31	73.51	88.77
	Hr	5.26	6.28	8.63	12.73
Summer	FT	102.64	120.72	139.41	167.25
	PT	58.04	80.45	93.20	117.54
	Hr	4.57	8.54	11.36	15.80

Table 39. 65th Percentile Market Rate for Licensed Centers by Cluster

Age	Enrollment	A	B	C	D
Infant	FT	131.53	148.46	191.39	262.86
	PT	88.36	109.34	142.28	195.65
	Hr	13.22	19.29	23.94	32.35
Toddler	FT	127.04	140.03	175.43	271.81
	PT	76.69	98.93	121.49	158.38
	Hr	11.22	14.63	17.88	22.04
Pre-school	FT	114.31	133.67	161.21	196.93
	PT	65.40	83.26	97.68	131.47
	Hr	12.24	9.91	12.58	18.51
School-age	FT	84.23	106.65	128.06	150.34
	PT	42.25	62.78	78.02	93.64
	Hr	5.83	6.85	9.54	13.72
Summer	FT	104.61	122.22	143.37	172.91
	PT	59.77	83.40	97.75	122.90
	Hr	4.84	9.39	12.64	17.24

Table 40. 70th Percentile Market Rate for Licensed Centers by Cluster

Age	Enrollment	A	B	C	D
Infant	FT	132.49	152.56	196.01	275.56
	PT	91.77	114.71	149.22	205.52
	Hr	14.88	21.41	26.49	36.05
Toddler	FT	128.36	142.59	180.32	293.74
	PT	79.76	103.30	128.13	166.62
	Hr	12.56	16.17	20.00	24.22
Pre-school	FT	115.42	136.29	167.27	203.22
	PT	68.72	86.48	103.24	138.68
	Hr	13.66	10.87	13.97	20.36
School-age	FT	95.19	110.28	133.59	159.85
	PT	46.69	66.58	82.95	98.97
	Hr	6.47	7.49	10.57	14.83
Summer	FT	106.70	123.81	147.62	179.00
	PT	61.63	86.59	102.70	128.73
	Hr	5.13	10.35	14.09	18.85

Table 41. 75th Percentile Market Rate for Licensed Centers by Cluster

Age	Enrollment	A	B	C	D
Infant	FT	133.54	157.06	201.07	289.72
	PT	95.55	120.69	156.94	216.54
	Hr	16.83	23.87	29.43	40.33
Toddler	FT	129.80	145.38	185.70	318.68
	PT	83.17	108.16	135.56	175.82
	Hr	14.12	17.94	22.46	26.72
Pre-school	FT	116.63	139.15	173.98	210.15
	PT	72.41	90.03	109.47	146.73
	Hr	15.32	11.96	15.58	22.48
School-age	FT	108.02	114.28	139.73	170.56
	PT	51.82	70.85	88.51	104.94
	Hr	7.21	8.22	11.75	16.08
Summer	FT	108.99	125.54	152.30	185.73
	PT	63.68	90.12	108.22	135.22
	Hr	5.46	11.45	15.77	20.70



Table 42. 80th Percentile Market Rate for Licensed Centers by Cluster

Age	Enrollment	A	B	C	D
Infant	FT	134.72	162.18	206.81	306.04
	PT	99.88	127.60	165.85	229.25
	Hr	19.18	26.81	32.95	45.48
Toddler	FT	131.41	148.54	191.82	348.03
	PT	87.07	113.73	144.16	186.46
	Hr	16.00	20.06	25.43	29.70
Pre-school	FT	117.99	142.39	181.65	218.06
	PT	76.68	94.10	116.68	156.06
	Hr	17.31	13.26	17.51	25.01
School-age	FT	123.58	118.86	146.79	183.02
	PT	57.95	75.81	94.97	111.86
	Hr	8.10	9.09	13.17	17.55
Summer	FT	111.58	127.49	157.62	193.42
	PT	66.02	94.16	114.60	142.69
	Hr	5.84	12.77	17.79	22.89

Table 43. 85th Percentile Market Rate for Licensed Centers by Cluster

Age	Enrollment	A	B	C	D
Infant	FT	136.09	168.28	213.63	325.80
	PT	105.09	135.96	176.65	244.67
	Hr	22.18	30.52	37.38	51.99
Toddler	FT	133.31	152.28	199.12	384.37
	PT	91.77	120.47	154.62	199.37
	Hr	18.38	22.73	29.19	33.44
Pre-school	FT	119.59	146.22	190.87	227.51
	PT	81.86	99.00	125.48	167.42
	Hr	19.82	14.88	19.95	28.19
School-age	FT	143.44	124.34	155.31	198.27
	PT	65.65	81.87	102.89	120.29
	Hr	9.22	10.17	14.96	19.37
Summer	FT	114.64	129.78	163.98	202.64
	PT	68.82	99.01	122.34	151.74
	Hr	6.30	14.41	20.34	25.63

Table 44. 90th Percentile Market Rate for Licensed Centers by Cluster

Age	Enrollment	A	B	C	D
Infant	FT	137.84	176.16	222.43	351.82
	PT	111.89	146.98	190.86	265.01
	Hr	26.35	35.63	43.47	60.99
Toddler	FT	135.73	157.07	208.55	433.45
	PT	97.91	129.31	168.47	216.43
	Hr	21.68	26.39	34.41	38.54
Pre-school	FT	121.61	151.14	202.90	239.78
	PT	88.69	105.39	137.14	182.44
	Hr	23.31	17.09	23.31	32.53
School-age	FT	171.16	131.47	166.47	218.60
	PT	76.23	89.93	113.44	131.46
	Hr	10.77	11.64	17.41	21.84
Summer	FT	118.58	132.71	172.22	214.65
	PT	72.44	105.35	132.55	163.64
	Hr	6.92	16.67	23.87	29.35

Table 45. 95th Percentile Market Rate for Licensed Centers by Cluster

Age	Enrollment	A	B	C	D
Infant	FT	140.45	188.29	235.90	392.80
	PT	122.47	164.35	213.26	297.11
	Hr	33.39	44.14	53.58	76.02
Toddler	FT	139.36	164.35	223.07	513.21
	PT	107.50	143.16	190.42	243.39
	Hr	27.23	32.47	43.14	46.97
Pre-school	FT	124.66	158.63	221.62	258.75
	PT	99.47	115.34	155.66	206.26
	Hr	29.14	20.74	28.91	39.71
School-age	FT	218.01	142.52	183.95	251.10
	PT	93.79	102.79	130.30	149.22
	Hr	13.34	14.06	21.49	25.84
Summer	FT	124.58	137.13	184.92	233.28
	PT	78.04	115.22	148.67	182.36
	Hr	7.90	20.41	29.77	35.48



Table 46. 10th Percentile Market Rate for Licensed Type A Homes

Age	Enrollment	A	B	C	D
Infant	FT	*	128.04	172.25	202.43
	PT	*	65.93	117.65	134.10
	Hr	*	2.48	2.02	9.47
Toddler	FT	*	122.80	169.26	160.85
	PT	*	62.37	98.41	128.48
	Hr	*	1.72	2.37	8.55
Pre-school	FT	*	104.93	120.45	125.28
	PT	*	52.59	91.50	78.86
	Hr	*	0.92	6.07	4.50
School-age	FT	*	74.14	100.18	69.94
	PT	*	53.67	69.99	54.52
	Hr	*	4.34	3.75	3.96
Summer	FT	*	96.83	119.96	104.40
	PT	*	82.05	90.22	75.97
	Hr	*	4.45	4.52	2.66

Table 47. 15th Percentile Market Rate for Licensed Type A Homes

Age	Enrollment	A	B	C	D
Infant	FT	*	131.55	173.61	206.19
	PT	*	71.37	118.58	142.60
	Hr	*	3.29	3.32	12.26
Toddler	FT	*	125.85	170.59	166.73
	PT	*	67.23	99.19	135.70
	Hr	*	2.35	4.14	9.74
Pre-school	FT	*	109.43	126.66	132.77
	PT	*	58.03	95.75	87.42
	Hr	*	1.44	7.41	5.62
School-age	FT	*	77.05	100.97	77.87
	PT	*	62.08	70.54	61.36
	Hr	*	5.68	6.21	5.04
Summer	FT	*	97.93	130.30	111.93
	PT	*	89.45	94.49	82.93
	Hr	*	5.89	5.69	3.64

Table 48. 20th Percentile Market Rate for Licensed Type A Homes

Age	Enrollment	A	B	C	D
Infant	FT	*	134.39	174.69	209.21
	PT	*	75.92	119.32	149.62
	Hr	*	4.08	4.77	14.88
Toddler	FT	*	128.30	171.65	171.51
	PT	*	71.28	99.81	141.62
	Hr	*	2.96	6.21	10.76
Pre-school	FT	*	113.09	131.74	138.93
	PT	*	62.62	99.21	94.68
	Hr	*	2.00	8.62	6.64
School-age	FT	*	79.42	101.60	84.60
	PT	*	69.40	70.98	67.20
	Hr	*	6.94	8.97	6.05
Summer	FT	*	98.80	138.94	118.17
	PT	*	95.66	97.98	88.76
	Hr	*	7.25	6.76	4.60

Table 49. 25th Percentile Market Rate for Licensed Type A Homes

Age	Enrollment	A	B	C	D
Infant	FT	*	136.85	175.62	211.83
	PT	*	79.97	119.96	155.82
	Hr	*	4.85	6.38	17.42
Toddler	FT	*	130.43	172.57	175.69
	PT	*	74.89	100.34	146.84
	Hr	*	3.56	8.55	11.70
Pre-school	FT	*	116.30	136.21	144.37
	PT	*	66.75	102.25	101.22
	Hr	*	2.61	9.76	7.62
School-age	FT	*	81.49	102.15	90.68
	PT	*	76.14	71.36	72.51
	Hr	*	8.17	12.01	7.02
Summer	FT	*	99.56	146.66	123.71
	PT	*	101.21	101.04	93.97
	Hr	*	8.59	7.79	5.56

Table 50. 30th Percentile Market Rate for Licensed Type A Homes

Age	Enrollment	A	B	C	D
Infant	FT	*	139.09	176.46	214.20
	PT	*	83.73	120.53	161.53
	Hr	*	5.62	8.14	19.96
Toddler	FT	*	132.36	173.40	179.50
	PT	*	78.22	100.82	151.64
	Hr	*	4.18	11.20	12.59
Pre-school	FT	*	119.24	140.32	149.38
	PT	*	70.62	105.03	107.36
	Hr	*	3.27	10.88	8.58
School-age	FT	*	83.37	102.63	96.39
	PT	*	82.57	71.70	77.52
	Hr	*	9.41	15.36	7.99
Summer	FT	*	100.24	153.84	128.83
	PT	*	106.38	103.85	98.84
	Hr	*	9.94	8.81	6.54

Table 51. 35th Percentile Market Rate for Licensed Type A Homes

Age	Enrollment	A	B	C	D
Infant	FT	*	141.19	177.24	216.41
	PT	*	87.32	121.07	166.95
	Hr	*	6.42	10.07	22.53
Toddler	FT	*	134.17	174.17	183.07
	PT	*	81.41	101.27	156.18
	Hr	*	4.82	14.15	13.45
Pre-school	FT	*	122.01	144.19	154.13
	PT	*	74.33	107.66	113.26
	Hr	*	3.97	11.98	9.55
School-age	FT	*	85.15	103.09	101.90
	PT	*	88.84	72.02	82.37
	Hr	*	10.67	19.04	8.96
Summer	FT	*	100.88	160.70	133.70
	PT	*	111.33	106.49	103.49
	Hr	*	11.31	9.83	7.55

Table 52. 40th Percentile Market Rate for Licensed Type A Homes

Age	Enrollment	A	B	C	D
Infant	FT	*	143.20	177.99	218.53
	PT	*	90.83	121.57	172.21
	Hr	*	7.24	12.19	25.18
Toddler	FT	*	135.9	174.9	186.51
	PT	*	84.51	101.69	160.57
	Hr	*	5.48	17.46	14.31
Pre-school	FT	*	124.67	147.93	158.72
	PT	*	77.98	110.19	119.07
	Hr	*	4.74	13.10	10.53
School-age	FT	*	86.86	103.52	107.32
	PT	*	95.10	72.32	87.16
	Hr	*	11.97	23.09	9.96
Summer	FT	*	101.48	167.40	138.43
	PT	*	116.16	109.05	108.04
	Hr	*	12.74	10.88	8.60

Table 53. 45th Percentile Market Rate for Licensed Type A Homes

Age	Enrollment	A	B	C	D
Infant	FT	*	145.16	178.71	220.58
	PT	*	94.31	122.07	177.39
	Hr	*	8.10	14.53	27.94
Toddler	FT	*	137.59	175.61	189.88
	PT	*	87.58	102.10	164.90
	Hr	*	6.18	21.16	15.17
Pre-school	FT	*	127.28	151.62	163.25
	PT	*	81.62	112.68	124.87
	Hr	*	5.58	14.25	11.55
School-age	FT	*	88.54	103.94	112.75
	PT	*	101.42	72.61	91.96
	Hr	*	13.33	27.57	10.99
Summer	FT	*	102.07	174.06	143.12
	PT	*	120.97	111.55	112.57
	Hr	*	14.23	11.96	9.72

Table 54. 50th Percentile Market Rate for Licensed Type A Homes

Age	Enrollment	A	B	C	D
Infant	FT	*	147.11	179.42	222.62
	PT	*	97.82	122.55	182.60
	Hr	*	9.02	17.14	30.85
Toddler	FT	*	139.27	176.30	193.23
	PT	*	90.68	102.51	169.23
	Hr	*	6.93	25.32	16.06
Pre-school	FT	*	129.89	155.30	167.80
	PT	*	85.31	115.16	130.77
	Hr	*	6.50	15.45	12.61
School-age	FT	*	90.21	104.36	118.27
	PT	*	107.92	72.90	96.87
	Hr	*	14.76	32.55	12.08
Summer	FT	*	102.65	180.78	147.84
	PT	*	125.84	114.06	117.16
	Hr	*	15.81	13.09	10.91

Table 55. 55th Percentile Market Rate for Licensed Type A Homes

Age	Enrollment	A	B	C	D
Infant	FT	*	149.07	180.14	224.67
	PT	*	101.41	123.04	187.91
	Hr	*	10.01	20.05	33.96
Toddler	FT	*	140.96	177.01	196.63
	PT	*	93.85	102.92	173.64
	Hr	*	7.74	30.03	16.97
Pre-school	FT	*	132.53	159.04	172.42
	PT	*	89.12	117.68	136.84
	Hr	*	7.53	16.71	13.74
School-age	FT	*	91.90	104.77	123.97
	PT	*	114.69	73.19	101.94
	Hr	*	16.30	38.13	13.24
Summer	FT	*	103.23	187.67	152.66
	PT	*	130.83	116.60	121.86
	Hr	*	17.51	14.29	12.20

Table 56. 60th Percentile Market Rate for Licensed Type A Homes

Age	Enrollment	A	B	C	D
Infant	FT	*	151.09	180.86	226.77
	PT	*	105.15	123.54	193.41
	Hr	*	11.08	23.34	37.33
Toddler	FT	*	142.69	177.72	200.11
	PT	*	97.14	103.33	178.19
	Hr	*	8.62	35.40	17.94
Pre-school	FT	*	135.25	162.91	177.21
	PT	*	93.09	120.27	143.21
	Hr	*	8.67	18.06	14.95
School-age	FT	*	93.64	105.19	129.94
	PT	*	121.86	73.49	107.27
	Hr	*	17.97	44.44	14.49
Summer	FT	*	103.82	194.86	157.66
	PT	*	136.04	119.22	126.77
	Hr	*	19.35	15.59	13.61

Table 57. 65th Percentile Market Rate for Licensed Type A Homes

Age	Enrollment	A	B	C	D
Infant	FT	*	153.19	181.62	228.95
	PT	*	109.12	124.05	199.20
	Hr	*	12.27	27.11	41.05
Toddler	FT	*	144.49	178.46	203.76
	PT	*	100.63	103.77	182.99
	Hr	*	9.60	41.60	18.98
Pre-school	FT	*	138.10	166.97	182.25
	PT	*	97.33	123.00	149.99
	Hr	*	9.98	19.54	16.28
School-age	FT	*	95.46	105.63	136.31
	PT	*	129.57	73.79	112.98
	Hr	*	19.81	51.67	15.87
Summer	FT	*	104.44	202.47	162.94
	PT	*	141.56	121.97	131.98
	Hr	*	21.39	17.01	15.18

Table 58. 70th Percentile Market Rate for Licensed Type A Homes

Age	Enrollment	A	B	C	D
Infant	FT	*	155.43	182.41	231.26
	PT	*	113.40	124.60	205.43
	Hr	*	13.61	31.50	45.21
Toddler	FT	*	146.41	179.25	207.65
	PT	*	104.39	104.22	188.13
	Hr	*	10.72	48.89	20.11
Pre-school	FT	*	141.15	171.32	187.67
	PT	*	101.92	125.91	157.37
	Hr	*	11.49	21.17	17.76
School-age	FT	*	97.40	106.10	143.24
	PT	*	138.04	74.12	119.20
	Hr	*	21.88	60.11	17.40
Summer	FT	*	105.09	210.70	168.64
	PT	*	147.54	124.92	137.62
	Hr	*	23.69	18.60	16.95

Table 59. 75th Percentile Market Rate for Licensed Type A Homes

Age	Enrollment	A	B	C	D
Infant	FT	*	157.86	183.28	233.77
	PT	*	118.14	125.19	212.30
	Hr	*	15.16	36.74	50.01
Toddler	FT	*	148.5	180.09	211.91
	PT	*	108.56	104.71	193.79
	Hr	*	12.01	57.66	21.39
Pre-school	FT	*	144.49	176.09	193.63
	PT	*	107.04	129.11	165.59
	Hr	*	13.28	23.03	19.45
School-age	FT	*	99.53	106.60	150.98
	PT	*	147.58	74.47	126.17
	Hr	*	24.26	70.18	19.17
Summer	FT	*	105.80	219.83	174.93
	PT	*	154.18	128.15	143.88
	Hr	*	26.35	20.41	19.02

Table 60. 80th Percentile Market Rate for Licensed Type A Homes

Age	Enrollment	A	B	C	D
Infant	FT	*	160.61	184.24	236.59
	PT	*	123.58	125.85	220.12
	Hr	*	17.01	43.21	55.73
Toddler	FT	*	150.85	181.04	216.71
	PT	*	113.32	105.26	200.21
	Hr	*	13.56	68.55	22.86
Pre-school	FT	*	148.27	181.52	200.41
	PT	*	112.94	132.73	175.07
	Hr	*	15.48	25.23	21.46
School-age	FT	*	101.93	107.16	159.92
	PT	*	158.70	74.86	134.23
	Hr	*	27.12	82.61	21.27
Summer	FT	*	106.59	230.30	182.11
	PT	*	161.80	131.81	151.07
	Hr	*	29.52	22.57	21.51

Table 61. 85th Percentile Market Rate for Licensed Type A Homes

Age	Enrollment	A	B	C	D
Infant	FT	*	163.84	185.37	239.91
	PT	*	130.12	126.62	229.48
	Hr	*	19.36	51.62	62.91
Toddler	FT	*	153.61	182.15	222.41
	PT	*	119.04	105.91	207.88
	Hr	*	15.53	82.83	24.67
Pre-school	FT	*	152.75	187.97	208.51
	PT	*	120.07	137.04	186.57
	Hr	*	18.32	27.96	23.96
School-age	FT	*	104.78	107.81	170.76
	PT	*	172.33	75.32	144.05
	Hr	*	30.70	98.80	23.90
Summer	FT	*	107.52	242.91	190.73
	PT	*	170.99	136.16	159.74
	Hr	*	33.53	25.26	24.66

Table 62. 90th Percentile Market Rate for Licensed Type A Homes

Age	Enrollment	A	B	C	D
Infant	FT	*	167.98	186.79	244.12
	PT	*	138.66	127.59	241.61
	Hr	*	22.58	63.58	72.75
Toddler	FT	*	157.14	183.55	229.71
	PT	*	126.5	106.72	217.8
	Hr	*	18.25	103.27	27.07
Pre-school	FT	*	158.53	196.31	219.01
	PT	*	129.46	142.58	201.71
	Hr	*	22.34	31.64	27.36
School-age	FT	*	108.44	108.64	185.06
	PT	*	190.53	75.90	157.05
	Hr	*	35.63	121.82	27.49
Summer	FT	*	108.69	259.40	201.94
	PT	*	183.02	141.77	171.11
	Hr	*	39.03	28.92	29.02

Table 63. 95th Percentile Market Rate for Licensed Type A Homes

Age	Enrollment	A	B	C	D
Infant	FT	*	174.23	188.92	250.45
	PT	*	151.97	129.04	260.35
	Hr	*	27.94	84.23	89.02
Toddler	FT	*	162.47	185.64	240.81
	PT	*	138.11	107.94	233.07
	Hr	*	22.80	138.84	30.90
Pre-school	FT	*	167.34	209.11	235.19
	PT	*	144.22	151.07	225.57
	Hr	*	29.22	37.65	32.93
School-age	FT	*	114.02	109.88	207.65
	PT	*	219.68	76.76	177.66
	Hr	*	43.79	161.60	33.41
Summer	FT	*	110.45	285.15	219.34
	PT	*	201.85	150.36	188.90
	Hr	*	48.18	34.95	36.32



Table 64. 10th Percentile Market Rate for Licensed Type B Homes

Age	Enrollment	A	B	C	D
Infant	FT	128.99	109.62	112.70	113.69
	PT	52.04	58.28	63.31	68.31
	Hr	0.74	1.21	1.90	3.08
Toddler	FT	90.80	112.33	71.10	115.79
	PT	56.14	61.16	46.85	78.74
	Hr	2.12	1.16	1.76	3.43
Pre-school	FT	81.19	97.49	79.47	106.68
	PT	50.01	52.58	51.31	69.94
	Hr	2.26	0.90	1.64	3.45
School-age	FT	78.23	72.94	62.41	87.11
	PT	46.38	47.44	44.29	56.53
	Hr	2.37	0.86	1.77	3.06
Summer	FT	75.09	104.80	82.71	31.21
	PT	46.38	60.85	51.89	66.61
	Hr	2.37	0.78	1.10	3.33

Table 65. 15th Percentile Market Rate for Licensed Type B Homes

Age	Enrollment	A	B	C	D
Infant	FT	136.63	114.47	119.29	122.58
	PT	55.98	63.07	68.12	75.09
	Hr	0.85	1.66	2.42	3.98
Toddler	FT	94.04	116.24	81.54	124.26
	PT	57.96	65.59	53.42	85.11
	Hr	2.32	1.64	2.28	4.38
Pre-school	FT	84.17	101.79	89.37	114.68
	PT	51.50	57.27	57.45	76.35
	Hr	2.36	1.30	2.16	4.33
School-age	FT	78.84	78.92	73.51	95.49
	PT	47.90	51.66	50.67	63.20
	Hr	2.43	1.24	2.25	3.95
Summer	FT	77.16	108.23	93.55	46.99
	PT	47.90	64.49	58.17	73.14
	Hr	2.43	1.17	1.70	4.32

Table 66. 20th Percentile Market Rate for Licensed Type B Homes

Age	Enrollment	A	B	C	D
Infant	FT	142.92	118.43	124.71	129.99
	PT	59.25	67.07	72.13	80.80
	Hr	0.94	2.10	2.91	4.82
Toddler	FT	96.68	119.42	90.57	131.29
	PT	59.44	69.27	59.08	90.42
	Hr	2.48	2.10	2.76	5.25
Pre-school	FT	86.59	105.30	97.82	121.32
	PT	52.71	61.20	62.68	81.71
	Hr	2.44	1.72	2.64	5.15
School-age	FT	79.34	83.90	83.28	102.53
	PT	49.14	55.18	56.18	68.88
	Hr	2.47	1.63	2.69	4.78
Summer	FT	78.83	111.01	102.84	63.44
	PT	49.14	67.49	63.52	78.63
	Hr	2.47	1.57	2.34	5.24

Table 67. 25th Percentile Market Rate for Licensed Type B Homes

Age	Enrollment	A	B	C	D
Infant	FT	148.47	121.90	129.48	136.58
	PT	62.16	70.64	75.69	85.92
	Hr	1.02	2.54	3.38	5.64
Toddler	FT	98.98	122.19	98.85	137.53
	PT	60.73	72.53	64.26	95.14
	Hr	2.63	2.58	3.22	6.10
Pre-school	FT	88.71	108.37	105.50	127.23
	PT	53.75	64.71	67.41	86.52
	Hr	2.52	2.14	3.12	5.93
School-age	FT	79.76	88.34	92.35	108.85
	PT	50.21	58.34	61.23	74.02
	Hr	2.51	2.03	3.12	5.59
Summer	FT	80.29	113.43	111.31	80.73
	PT	50.21	70.14	68.37	83.56
	Hr	2.51	1.98	3.02	6.14

Table 68. 30th Percentile Market Rate for Licensed Type B Homes

Age	Enrollment	A	B	C	D
Infant	FT	153.57	125.08	133.88	142.68
	PT	64.85	73.95	78.99	90.71
	Hr	1.10	2.99	3.85	6.45
Toddler	FT	101.08	124.72	106.72	143.30
	PT	61.90	75.55	69.17	99.53
	Hr	2.77	3.07	3.69	6.94
Pre-school	FT	90.64	111.19	112.74	132.70
	PT	54.71	67.98	71.87	90.99
	Hr	2.58	2.58	3.60	6.71
School-age	FT	80.14	92.47	101.07	114.74
	PT	51.19	61.27	66.03	78.86
	Hr	2.54	2.45	3.54	6.39
Summer	FT	81.61	115.63	119.31	99.03
	PT	51.19	72.57	72.94	88.17
	Hr	2.54	2.42	3.75	7.04

Table 69. 35th Percentile Market Rate for Licensed Type B Homes

Age	Enrollment	A	B	C	D
Infant	FT	158.40	128.07	138.04	148.50
	PT	67.41	77.11	82.13	95.31
	Hr	1.17	3.46	4.33	7.28
Toddler	FT	103.05	127.09	114.39	148.79
	PT	63.00	78.42	73.95	103.71
	Hr	2.91	3.58	4.16	7.79
Pre-school	FT	92.46	113.83	119.74	137.90
	PT	55.60	71.11	76.18	95.28
	Hr	2.64	3.05	4.09	7.48
School-age	FT	80.50	96.40	109.64	120.40
	PT	52.11	64.08	70.69	83.53
	Hr	2.57	2.88	3.97	7.20
Summer	FT	82.85	117.70	127.07	118.54
	PT	52.11	74.88	77.36	92.59
	Hr	2.57	2.89	4.54	7.95

Table 70. 40th Percentile Market Rate for Licensed Type B Homes

Age	Enrollment	A	B	C	D
Infant	FT	163.09	130.95	142.07	154.18
	PT	69.91	80.19	85.19	99.81
	Hr	1.25	3.95	4.81	8.13
Toddler	FT	104.95	129.37	122.01	154.13
	PT	64.06	81.22	78.68	107.79
	Hr	3.04	4.11	4.64	8.66
Pre-school	FT	94.20	116.39	126.66	142.97
	PT	56.45	74.17	80.43	99.47
	Hr	2.71	3.54	4.60	8.27
School-age	FT	80.83	100.24	118.22	125.93
	PT	52.99	66.83	75.32	88.14
	Hr	2.60	3.35	4.40	8.04
Summer	FT	84.03	119.69	134.74	139.46
	PT	52.99	77.11	81.71	96.92
	Hr	2.60	3.39	5.39	8.89

Table 71. 45th Percentile Market Rate for Licensed Type B Homes

Age	Enrollment	A	B	C	D
Infant	FT	167.70	133.78	146.04	159.80
	PT	72.39	83.25	88.22	104.31
	Hr	1.33	4.47	5.31	9.01
Toddler	FT	106.80	131.60	129.70	159.42
	PT	65.09	83.98	83.45	111.84
	Hr	3.17	4.68	5.15	9.56
Pre-school	FT	95.91	118.89	133.60	147.99
	PT	57.29	77.21	84.69	103.64
	Hr	2.77	4.07	5.12	9.09
School-age	FT	81.16	104.05	126.94	131.45
	PT	53.86	69.56	80.00	92.75
	Hr	2.63	3.85	4.85	8.91
Summer	FT	85.19	121.63	142.46	162.08
	PT	53.86	79.31	86.08	101.23
	Hr	2.63	3.93	6.31	9.87



Table 72. 50th Percentile Market Rate for Licensed Type B Homes

Age	Enrollment	A	B	C	D
Infant	FT	172.33	136.61	150.02	165.47
	PT	74.88	86.33	91.27	108.86
	Hr	1.40	5.02	5.84	9.94
Toddler	FT	108.65	133.82	137.58	164.74
	PT	66.12	86.76	88.33	115.92
	Hr	3.30	5.29	5.68	10.51
Pre-school	FT	97.61	121.39	140.68	153.04
	PT	58.12	80.28	89.02	107.86
	Hr	2.82	4.64	5.68	9.95
School-age	FT	81.49	107.89	135.94	137.04
	PT	54.71	72.32	84.78	97.45
	Hr	2.66	4.39	5.33	9.82
Summer	FT	86.34	123.56	150.33	186.74
	PT	54.71	81.52	90.54	105.61
	Hr	2.66	4.51	7.33	10.90

Table 73. 55th Percentile Market Rate for Licensed Type B Homes

Age	Enrollment	A	B	C	D
Infant	FT	177.04	139.47	154.07	171.27
	PT	77.43	89.50	94.39	113.54
	Hr	1.49	5.62	6.40	10.94
Toddler	FT	110.51	136.07	145.77	170.18
	PT	67.16	89.61	93.40	120.10
	Hr	3.44	5.96	6.24	11.52
Pre-school	FT	99.33	123.93	148.00	158.21
	PT	58.96	83.43	93.51	112.19
	Hr	2.88	5.27	6.28	10.87
School-age	FT	81.81	111.82	145.37	142.78
	PT	55.58	75.15	89.76	102.30
	Hr	2.69	4.97	5.84	10.80
Summer	FT	87.50	125.51	158.50	213.87
	PT	55.58	83.77	95.14	110.10
	Hr	2.69	5.16	8.45	12.00



Table 74. 60th Percentile Market Rate for Licensed Type B Homes

Age	Enrollment	A	B	C	D
Infant	FT	181.92	142.42	158.26	177.30
	PT	80.07	92.79	97.64	118.44
	Hr	1.57	6.27	7.01	12.02
Toddler	FT	112.43	138.37	154.42	175.83
	PT	68.22	92.56	98.75	124.45
	Hr	3.58	6.69	6.86	12.61
Pre-school	FT	101.10	126.54	155.70	163.58
	PT	59.82	86.72	98.21	116.71
	Hr	2.95	5.96	6.94	11.85
School-age	FT	82.14	115.92	155.38	148.77
	PT	56.47	78.10	95.00	107.40
	Hr	2.72	5.62	6.38	11.86
Summer	FT	88.69	127.52	167.09	244.08
	PT	56.47	86.10	99.97	114.80
	Hr	2.72	5.87	9.70	13.20

Table 75. 65th Percentile Market Rate for Licensed Type B Homes

Age	Enrollment	A	B	C	D
Infant	FT	187.05	145.51	162.67	183.67
	PT	82.87	96.27	101.07	123.64
	Hr	1.66	7.00	7.68	13.21
Toddler	FT	114.44	140.78	163.72	181.79
	PT	69.33	95.67	104.49	129.06
	Hr	3.74	7.51	7.54	13.81
Pre-school	FT	102.95	129.28	163.93	169.25
	PT	60.72	90.21	103.24	121.50
	Hr	3.01	6.74	7.66	12.92
School-age	FT	82.48	120.26	166.19	155.15
	PT	57.40	81.23	100.64	112.84
	Hr	2.75	6.35	6.98	13.03
Summer	FT	89.93	129.61	176.30	278.19
	PT	57.40	88.55	105.14	119.80
	Hr	2.75	6.68	11.13	14.51



Table 76. 70th Percentile Market Rate for Licensed Type B Homes

Age	Enrollment	A	B	C	D
Infant	FT	192.56	148.82	167.41	190.56
	PT	85.89	100.03	104.77	129.29
	Hr	1.76	7.82	8.43	14.54
Toddler	FT	116.58	143.35	173.91	188.23
	PT	70.52	99.03	110.77	134.03
	Hr	3.90	8.44	8.29	15.16
Pre-school	FT	104.92	132.21	172.92	175.37
	PT	61.68	93.98	108.72	126.69
	Hr	3.08	7.63	8.47	14.13
School-age	FT	82.85	124.94	178.12	162.05
	PT	58.39	84.62	106.82	118.76
	Hr	2.78	7.19	7.65	14.33
Summer	FT	91.25	131.84	186.35	317.44
	PT	58.39	91.18	110.77	125.21
	Hr	2.78	7.61	12.77	15.99

Table 77. 75th Percentile Market Rate for Licensed Type B Homes

Age	Enrollment	A	B	C	D
Infant	FT	198.63	152.44	172.62	198.18
	PT	89.23	104.20	108.86	135.57
	Hr	1.88	8.79	9.29	16.08
Toddler	FT	118.92	146.16	185.36	195.33
	PT	71.82	102.75	117.81	139.53
	Hr	4.08	9.52	9.17	16.70
Pre-school	FT	107.08	135.42	182.97	182.14
	PT	62.72	98.17	114.85	132.46
	Hr	3.16	8.67	9.40	15.50
School-age	FT	83.24	130.13	191.61	169.73
	PT	59.47	88.37	113.75	125.38
	Hr	2.82	8.17	8.42	15.84
Summer	FT	92.69	134.28	197.62	363.70
	PT	59.47	94.08	117.07	131.24
	Hr	2.82	8.70	14.71	17.69

Table 78. 80th Percentile Market Rate for Licensed Type B Homes

Age	Enrollment	A	B	C	D
Infant	FT	205.53	156.55	178.55	206.90
	PT	93.05	108.98	113.54	142.79
	Hr	2.01	9.94	10.31	17.91
Toddler	FT	121.56	149.33	198.69	203.45
	PT	73.28	106.99	126.00	145.84
	Hr	4.29	10.84	10.21	18.53
Pre-school	FT	109.52	139.05	194.60	189.87
	PT	63.90	102.97	121.93	139.08
	Hr	3.24	9.94	10.52	17.14
School-age	FT	83.67	136.08	207.39	178.56
	PT	60.69	92.69	121.82	133.04
	Hr	2.86	9.35	9.33	17.63
Summer	FT	94.31	137.03	210.67	420.13
	PT	60.69	97.37	124.35	138.16
	Hr	2.86	10.03	17.10	19.72

Table 79. 85th Percentile Market Rate for Licensed Type B Homes

Age	Enrollment	A	B	C	D
Infant	FT	213.77	161.42	185.63	217.37
	PT	97.63	114.73	119.16	151.53
	Hr	2.17	11.41	11.60	20.20
Toddler	FT	124.69	153.09	214.98	213.20
	PT	75.00	112.07	136.00	153.42
	Hr	4.54	12.50	11.51	20.83
Pre-school	FT	112.40	143.37	208.75	199.15
	PT	65.29	108.77	130.53	147.07
	Hr	3.35	11.55	11.92	19.18
School-age	FT	84.19	143.22	226.83	189.22
	PT	62.14	97.88	131.68	142.34
	Hr	2.91	10.87	10.48	19.88
Summer	FT	96.22	140.28	226.59	492.65
	PT	62.14	101.31	133.20	146.54
	Hr	2.91	11.73	20.17	22.27

Table 80. 90th Percentile Market Rate for Licensed Type B Homes

Age	Enrollment	A	B	C	D
Infant	FT	224.45	167.70	194.79	231.03
	PT	103.60	122.23	126.48	163.00
	Hr	2.38	13.44	13.35	23.34
Toddler	FT	128.70	157.89	236.68	225.88
	PT	77.21	118.69	149.29	163.32
	Hr	4.88	14.82	13.30	23.97
Pre-school	FT	116.11	148.93	227.49	211.24
	PT	67.06	116.35	141.91	157.53
	Hr	3.48	13.81	13.86	21.95
School-age	FT	84.83	152.56	252.89	203.21
	PT	63.99	104.69	144.79	154.62
	Hr	2.97	12.99	12.04	22.96
Summer	FT	98.66	144.44	247.70	594.51
	PT	63.99	106.41	144.91	157.53
	Hr	2.97	14.13	24.50	25.76

Table 81. 95th Percentile Market Rate for Licensed Type B Homes

Age	Enrollment	A	B	C	D
Infant	FT	240.90	177.29	208.91	252.29
	PT	112.88	133.93	137.86	181.02
	Hr	2.72	16.84	16.23	28.54
Toddler	FT	134.80	165.20	271.34	245.56
	PT	80.57	128.96	170.48	178.73
	Hr	5.40	18.72	16.25	29.14
Pre-school	FT	121.74	157.42	257.19	230.03
	PT	69.75	128.21	159.91	173.91
	Hr	3.68	17.64	17.06	26.52
School-age	FT	85.80	167.11	294.91	225.15
	PT	66.79	115.33	165.73	174.05
	Hr	3.06	16.57	14.61	28.05
Summer	FT	102.36	150.75	281.23	767.97
	PT	66.79	114.28	163.44	174.78
	Hr	3.06	18.19	31.91	31.53

Appendix A – Invitation Letter

Dear Child Care Provider:

Below you will find a link to an electronic questionnaire asking for your current enrollments and private child care rates. Information you provide about your enrollments and rates will help us gauge the demand for public funded services and set public funded rates for children of low-income families.

We are asking all providers (licensed centers, type A home providers, and certified Type B home providers) to complete this questionnaire regardless of whether they provide public funded care or not. Completing the questionnaire will not require you to participate in the public funded care program.

Our goal is to provide a high level of care for ALL children. Your participation in this survey is vital to ensure public funded rates set by ODJFS are a true representation of the current market.

ODJFS has contracted with the Statistical Consulting Service at The Ohio State University to conduct the survey. Your responses to the survey will be used to help determine ODJFS' public funded rates, but only a summary of the responses will be sent to ODJFS (not your individual responses). To ensure confidentiality, all names, mailing addresses, and e-mail addresses will be removed from the questionnaire when it is received by OSU.

Before completing the online questionnaire, please make sure to gather all your enrollment and rate information for easy entry. The questionnaire should take approximately 20 minutes to complete.

Based on a random sample of all respondents, you may be requested (at a later time) to submit your rate sheet for quality assurance purposes.

Thank you for your time and consideration.

Sincerely,

Michelle Albast, Bureau Chief
Bureau of Child Care and Development
Ohio Department of Job and Family Services

Christopher Holloman, PhD, Director
Statistical Consulting Service
The Ohio State University

Here is the link:

<http://appv3.sgizmo.com/testsurvey/survey?id=934792&crc=6d12726e8a892a6dae8dc9d3306a77e7>

This message was sent by The OSU Statistical Consulting Service, Columbus, OH 43210.

To unsubscribe, click below:

<http://s-6c2afd-i.sgizmo.com/s3/i-000000-279945/unsubscribe>



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Appendix B – Survey Instrument

2014 ODJFS Child Care Market Rate Survey

Dear Child Care Provider:

Every two years the Ohio Department of Job and Family Services (ODJFS) is required to conduct a survey to establish rates for publicly funded child care (child care provided to low-income families) under federal law. As a result, ODJFS has contracted with The Ohio State University Statistical Consulting Service to assist with conducting a survey to gather information about what the public has to pay for child care services throughout Ohio and to compile the information and analyze the results. The survey results will impact the reimbursement rates of nearly 3,000 centers and 4,000 family child care providers that currently serve child eligible for publicly-funded child care.

How is the information that I provide used?

The goal of the market rate survey is to compile a snapshot of the early education, child care and the cost of these services in Ohio. That snapshot is then used to set reimbursement rates for providers that participate in the state's Publicly Funded Child Care (PFCC) program.

Will my information be kept confidential?

To ensure confidentiality, each provider ID, name, e-mail address and mailing address will be removed from the survey when it is received. Any reports created or published will only summarize the responses across all providers and will not contain any individual provider information.

What information do we need from you?

In order to reimburse providers with rates that are based on the current rates within the child care industry, ODJFS needs enrollment and rate information from child care providers that serve families that pay for child care without any financial assistance from ODJFS.

How long will the survey take?

The survey should take about 20 minutes to complete per site.

What if I own multiple locations? Do I have to complete a survey for each site I own or can I do one survey?

Providers with multiple locations are asked to submit a survey with information about each location you operate. You will be sent a link for each location. If you have more than one location with the same enrollment and rate information, please complete a survey for one location and send an e-mail to scs_survey@stat.osu.edu with the provider IDs of the other locations.

What if I am increasing my rates within the next month; which rates should I use for this survey?

Providers should use their new rates, even if they are not in place when the survey is completed.

When is the survey due?

Please complete and submit the survey by September 15, 2014.



What do I do if I have question?

If you have questions about the purpose of the survey, please contact Michelle Albast at michelle.albast@jfs.ohio.gov or 614-752-0582.

If you have questions about how to answer one of the questions on the survey, you can

- look for an answer on the FAQ page;
- send an email to scs_survey@stat.osu.edu; or
- phone Barb Wohlever of the SCS at 614-292-1529.

Is there anything else I need to do as part of the Market Rate Survey?

A random sample of all respondents will be selected to assist with survey quality assurance. If you are selected, you will be contacted in a few weeks and asked to submit your rate sheet. This request will be sent to you via U.S. mail.

Where can I find the results of the 2014 Child Care Market Rate Survey?

The results of the Market Rate Survey will be published on the ODJFS website after December 1, 2014.

Thank you for taking our survey. Your response is very important to us.

Sincerely,

Michelle Albast

Christopher H. Holloman



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Section 1: Provider Information

Note: This information will remain confidential.

Instructions: In this section, you are asked to provide the following information about your child care business:

- The type of business;
 - Your funding sources;
 - Any price modifications you have due to sickness, holiday, and vacation;
 - Whether you charge fees for additional services;
 - Whether you offer rate adjustments for several reasons;
 - Whether you participate in Step Up to Quality and how that may have affected your rates;
 - Whether there have been changes in your ODJFS publicly-funded enrollment in the last year;
- and
- What percentage of capacity you assumed when you set your service rates.

Please follow the instructions for each question regarding whether a single answer is required or whether you may select several answers.

Provider ID: _____

Provider Name: _____

Provider Type: _____

County: _____

1. Are you currently providing child care services or planning to provide services in the next month? (Please select one)

- Yes
- No (if no, you do not need to complete the rest of the survey)

2. Select all the following items that describe your program (check all that apply)

- For-profit
- Non-profit (501C3)
- Part of a corporation
- Part of an organization with multiple locations
- A family child care provider



3a. Please check all the sources from which you receive funding or support for child care? (check all that apply)

- Payment from families
- ODJFS publicly funded child care
- Donations/endowments
- United Way
- CACFP (Child and Adult Food Program)
- Other government agencies (reduced taxes, worker’s comp, etc)
- In-kind (rent, utilities, etc.)
- Head Start
- Early Head Start
- Early Childhood Education (State Preschool)
- Step Up To Quality – Quality Achievement Award
- Private Foundations
- Corporate sponsors
- Other

3b. Please include the percentage of your child care funding that each applies for each source (this table will be generated to contain only those sources indicated in the previous question)

Funding Source	Percentage of Funding
Payment from families	
ODJFS publicly funded child care	
Donations/endowments	
United Way	
Child and Adult Food Program	
Other government agencies (reduced taxes, worker’s comp, etc)	
In-kind (rent, utilities, etc)	
Head Start	
Early Head Start	
Early Childhood Education (State Preschool)	
Step Up To Quality – Quality Achievement Award	
Private Foundations	
Corporate sponsors	
Other	

4. How much do you charge private clients when...

	Full Price	Partial or Discounted Price	No charge	Don't Know
The child is ill or does not attend a day they are scheduled to?	()	()	()	()
The child's family is on vacation?	()	()	()	()
Your location is closed for holidays or other reasons?	()	()	()	()

5. Do you charge your private pay families additional fees for any of the following services? (check all that apply)

- Registration fee
- Event/fieldtrip fee
- Food/Meal fee
- Craft/Materials fee
- Transportation fee
- Late pick up fee
- Do not charge any additional fees
- Other (*please specify*)

Misuse of Ohio ECC swipe card

- Family forgets card but needs care that day
- You need to complete a Manual Claim or Adjustment form

6. Do you adjust your private rates due to any of the following reasons?

(check all that apply)

- Sliding fee scale (based on family income)
- Discounts for families with two or more enrolled children
- Provide care in evening, overnight, weekends
- Introductory promotions/rates
- Discounts for military families
- Corporate discounts
- Scholarships
- Provide service to friends/family members
- Low enrollments
- Discounts for children who are potty-trained
- Do not adjust my rates
- Other *(please specify)*

7a. Do you participate in Step Up To Quality?

- Yes
- No

7b. Did you increase your rates when you became star rated or changed your star rating?

- Yes
- No



8a. How has the number of ODJFS publicly funded children you serve changed in the last year?

- Increased
- Stayed the same
- Decreased

8b. If there was a decrease, why did the enrollment decrease? (Check all that apply)

- Less demand
- Less funding
- Closed a classroom
- Reimbursement rate insufficient to sustain budget
- Other (please specify): _____

9a. When determining your child care operating budget and creating service rates, what percentage of total enrollment are you assuming?

- _____ %
- _____ Don't know
- _____ N/A

9b. If you provided a percentage in Question 9a, what percentages of the following categories of enrollment were you anticipating when you created your budget?

- Private pay families: _____ %
- ODJFS Publicly funded child care families: _____ %
- Other: _____ %



Sections 2 – 6: Capacity, Attendance, and Prices

This survey was designed to collect information about enrollment and rates despite differences among providers in how they deliver their services.

Please complete this survey using your location's enrollment and rate information.

The survey is divided into different sections by the age of children receiving care. The age groups in this survey are:

- Newborn through 17 months (INFANT)
- 18 months through 35 months (TODDLER)
- 3 through 5 years not yet in kindergarten (PRE-SCHOOL)
- 5 through 12 years enrolled in kindergarten or higher (SCHOOL-AGE)

The school-age group is further divided into school-year care and summer care.

In each section, you are asked to provide the following information:

- Whether you are licensed to provide care to children in the age group.
- The total capacity of children for this location.
- Any limits you may have on the number of ODJFS publicly-funded children you accept.
- The total number of children enrolled in an age group at this location.
- The total numbers of private-pay children, ODJFS publicly-funded children, and children with other funding enrolled at this location broken down into three categories based on the number of hours they attend your program per week.
- The current, non-discounted customary rates you would charge for children in three categories based on the number of hours they attend in a week (please enter all rate fields in an xxxx.xx format) along with the billing period.

IMPORTANT NOTES:

- **When answering the rate questions, please do not include any discounts in the rates.**
- **If you have sliding scales based on income, please tell us your maximum rates.**
- **DO NOT INVENT RATES FOR THESE QUESTIONS. IF THERE ARE RATES THAT DO NOT APPLY TO YOUR LOCATION, PLEASE SKIP AND CONTINUE. For example, do not divide your weekly rate by 40 to obtain an hourly rate.**

Section 2: Children Ages Newborn through 17 Months Old

1. Are you licensed to provide services at this location for children ages newborn through 17 months old?

- Yes
- No

2a. What is your program's desired capacity for children ages newborn through 17 months (your desired capacity must be less than or equal to your licensed capacity)?

_____ children

2b. What is the maximum number of ODJFS publicly-funded children ages newborn through 17 months that you will accept in your program?

- _____ ODJFS publicly-funded children
- Do not take ODJFS publicly-funded children

3a. How many TOTAL children ages newborn through 17 months old are currently enrolled at your location? (Please enter "0" if no children in this age group are currently enrolled.)

_____ enrolled children



3b. In the table below, please enter the number of children enrolled by attendance category in the first row, enter the number of children publicly funded by ODJFS by rate category in the second row, and enter the number of children with other funding in the third row.

COMPLETING THIS ENTIRE TABLE IS REQUIRED - please enter "0" in those cells that do not have any enrolled children.

Of those TOTAL children noted above, how many are:

Funding	Attendance		
	Hourly (Less than 7 hrs / wk)	Part Time (7 – 25 hrs/wk)	Full Time (More than 25 hrs/wk)
Private Pay			
ODJFS Publicly Funded Children			
Other			

4. Using your current rate schedule (non-discounted rates), please provide the rates you charge for private pay children in this age group. (Please only consider care provided on weekdays.) ALL ROWS IN THIS TABLE ARE REQUIRED - please include all rates and billing periods for each rate category. For any rate categories that do not pertain to your location, please enter "0.00" in the rate column and "Week" in the billing period column.

What would you charge for a 9-month old enrolled for:

Attendance	Billing Period (please click only one per row)							Private Pay Rate (enter in format xxxx.xx)
	Hour	Day	Week	Every 2 weeks	Month	Other	Please describe	
50 hours per week	()	()	()	()	()	()		
20 hours per week	()	()	()	()	()	()		
4 hours per week	()	()	()	()	()	()		

Section 3: Children Ages 18 Months through 35 Months Old

1. Are you licensed to provide services at this location for children ages 18 months through 35 months old?

- Yes
- No

2a. What is your program's desired capacity for children ages 18 through 35 months?

_____ children

2b. What is the maximum number of ODJFS publicly-funded children ages 18 through 35 months that you will accept in your program?

- _____ ODJFS publicly-funded children
- Do not take ODJFS publicly-funded children

3a. How many TOTAL children ages 18 through 35 months old are currently enrolled at your location? (Please enter "0" if no children in this age group are currently enrolled.)

_____ enrolled children



3b. In the table below, please enter the number of children enrolled by attendance category in the first row, enter the number of children publicly funded by ODJFS by rate category in the second row, and enter the number of children with other funding in the third row.

COMPLETING THIS ENTIRE TABLE IS REQUIRED - please enter "0" in those cells that do not have any enrolled children.

Of those TOTAL children noted above, how many are:

Funding	Attendance		
	Hourly (Less than 7 hrs / wk)	Part Time (7 – 25 hrs/wk)	Full Time (More than 25 hrs/wk)
Private Pay			
ODJFS Publicly Funded Children			
Other			

4. Using your current rate schedule (non-discounted rates), please provide the rates you charge for private pay children in this age group. (Please only consider care provided on weekdays.) ALL ROWS IN THIS TABLE ARE REQUIRED - please include all rates and billing periods for each rate category. For any rate categories that do not pertain to your location, please enter "0.00" in the rate column and "Week" in the billing period column.

What would you charge for a 27-month old enrolled for:

Attendance	Billing Period (please click only one per row)							Private Pay Rate (enter in format xxxx.xx)
	Hour	Day	Week	Every 2 weeks	Month	Other	Please describe	
50 hours per week	()	()	()	()	()	()		
20 hours per week	()	()	()	()	()	()		
4 hours per week	()	()	()	()	()	()		

Section 4: Children Ages 3 through 5 Years, not yet in Kindergarten AND not enrolled in a public preschool

1. Are you licensed to provide services at this location for children ages 3 through 5 years, not yet in kindergarten AND not enrolled in a public preschool?

- Yes
- No

2a. What is your program's desired capacity for children ages 3 through 5 years?

_____ children

2b. What is the maximum number of ODJFS publicly-funded children ages 3 through 5 months you will accept in your program?

- _____ ODJFS publicly-funded children
- Do not take ODJFS publicly-funded children

3a. How many TOTAL children ages newborn through 3 through 5 years old are currently enrolled at your location? (Please enter "0" if no children in this age group are currently enrolled.)

_____ enrolled children



3b. In the table below, please enter the number of children enrolled by attendance category in the first row, enter the number of children publicly funded by ODJFS by rate category in the second row, and enter the number of children with other funding in the third row.

COMPLETING THIS ENTIRE TABLE IS REQUIRED - please enter "0" in those cells that do not have any enrolled children.

Of those TOTAL children noted above, how many are:

Funding	Attendance		
	Hourly (Less than 7 hrs / wk)	Part Time (7 – 25 hrs/wk)	Full Time (More than 25 hrs/wk)
Private Pay			
ODJFS Publicly Funded Children			
Other			

4. Using your current rate schedule (non-discounted rates), please provide the rates you charge for private pay children in this age group. (Please only consider care provided on weekdays.) ALL ROWS IN THIS TABLE ARE REQUIRED - please include all rates and billing periods for each rate category. For any rate categories that do not pertain to your location, please enter "0.00" in the rate column and "Week" in the billing period column.

What would you charge for a 4-year old enrolled for:

Attendance	Billing Period (please click only one per row)							Private Pay Rate (enter in format xxxx.xx)
	Hour	Day	Week	Every 2 weeks	Month	Other	Please describe	
50 hours per week	()	()	()	()	()	()		
20 hours per week	()	()	()	()	()	()		
4 hours per week	()	()	()	()	()	()		

Section 5: Children Ages 5 through 12 Years who are in Kindergarten or Higher During the Regular School Year

1. Are you licensed to provide services at this location for children ages 5 through 12 years who are in kindergarten or higher during the regular school year?

- Yes
- No

2a. What is your program's desired capacity for children ages 5 through 12 years?

_____ children

2b. What is the maximum number of ODJFS publicly-funded children ages 5 through 12 months you will accept in your program?

- _____ ODJFS publicly-funded children
- Do not take ODJFS publicly-funded children

3a. How many TOTAL children ages newborn through 5 through 12 years old who are in kindergarten or higher are currently enrolled at your location? (Please enter "0" if no children in this age group are currently enrolled.)

_____ enrolled children



3b. In the table below, please enter the number of children enrolled by attendance category in the first row, enter the number of children publicly funded by ODJFS by rate category in the second row, and enter the number of children with other funding in the third row.

COMPLETING THIS ENTIRE TABLE IS REQUIRED - please enter "0" in those cells that do not have any enrolled children.

Of those TOTAL children noted above, how many are:

Funding	Attendance		
	Hourly (Less than 7 hrs / wk)	Part Time (7 – 25 hrs/wk)	Full Time (More than 25 hrs/wk)
Private Pay			
ODJFS Publicly Funded Children			
Other			

4. Using your current rate schedule (non-discounted rates), please provide the rates you charge for private pay children in this age group. (Please only consider care provided on weekdays.) ALL ROWS IN THIS TABLE ARE REQUIRED - please include all rates and billing periods for each rate category. For any rate categories that do not pertain to your location, please enter "0.00" in the rate column and "Week" in the billing period column.

What would you charge for a 7-year old enrolled for:

Attendance	Billing Period (please click only one per row)							Private Pay Rate (enter in format xxxx.xx)
	Hour	Day	Week	Every 2 weeks	Month	Other	Please describe	
50 hours per week	()	()	()	()	()	()		
20 hours per week	()	()	()	()	()	()		
4 hours per week	()	()	()	()	()	()		



Section 6: Children Ages 5 through 12 Years who are in Kindergarten or Higher during Summer and School Vacation Periods

1. Are you licensed to provide services at this location for children ages 5 through 12 years who are in kindergarten or higher during summer and school vacation periods?

- Yes
- No

2a. What is your program's desired capacity for children ages 5 through 12 years during summer and school vacation periods?

_____ children

2b. What is the maximum number of ODJFS publicly-funded children ages 5 through 12 months during summer and school vacation periods?

- _____ ODJFS publicly-funded children
- Do not take ODJFS publicly-funded children

3a. How many TOTAL children ages newborn through 5 through 12 years old during summer and school vacation periods are currently enrolled at your location? (Please enter "0" if no children in this age group are currently enrolled.)

_____ enrolled children



3b. In the table below, please enter the number of children enrolled by attendance category in the first row, enter the number of children publicly funded by ODJFS by rate category in the second row, and enter the number of children with other funding in the third row.

COMPLETING THIS ENTIRE TABLE IS REQUIRED - please enter "0" in those cells that do not have any enrolled children.

Of those TOTAL children noted above, how many are:

Funding	Attendance		
	Hourly (Less than 7 hrs / wk)	Part Time (7 – 25 hrs/wk)	Full Time (More than 25 hrs/wk)
Private Pay			
ODJFS Publicly Funded Children			
Other			

4. Using your current rate schedule (non-discounted rates), please provide the rates you charge for private pay children in this age group. (Please only consider care provided on weekdays.) ALL ROWS IN THIS TABLE ARE REQUIRED - please include all rates and billing periods for each rate category. For any rate categories that do not pertain to your location, please enter "0.00" in the rate column and "Week" in the billing period column.

What would you charge for a 7-year old during summer and school vacation periods enrolled for:

Attendance	Billing Period (please click only one per row)							Private Pay Rate (enter in format xxxx.xx)
	Hour	Day	Week	Every 2 weeks	Month	Other	Please describe	
50 hours per week	()	()	()	()	()	()		
20 hours per week	()	()	()	()	()	()		
4 hours per week	()	()	()	()	()	()		