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### **Market for Formal Childcare in the Cairns Region: Demand, Supply and Prescriptions for New Childcare Facility Locations**

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## **Abstract**

This study assesses the market for “formal” childcare industry in the Cairns region of Queensland, Australia. Formal childcare is defined as regulated care that takes place away from the child’s home. As at February 2006, there were 39 long day cares, 25 school age cares, three family day cares, and nine kindergartens in the region that had a combined total of more than 2829 licensed places. The market potential for formal childcare is 5520 places. There is a gap of at least 2691 places in the region. It is shown that a geographical region within the Trinity statistical local area in Cairns would be an ideal location for a new childcare facility.

The paper reports a study that applies quantitative tools that can assist marketing planners to assess demand for goods and services and to decide on geographical locations for new retail facilities. Briefly, a ‘biased’ regression approach is highlighted to estimate structural relations between criterion (product demand) and its predictors. Then, a differential equation model is used to forecast medium-term (less than three years) demand. Finally, a nonparametric density estimation approach is used to choose a location that would maximize the market share of a new facility.

The Cairns region of Queensland is a typical location, and one of the fastest growing in Australia. This was a suitable testing ground to implement a set of models for assessing demand, and the study was motivated partly by requests for assessment of demand from the North Queensland childcare industry.

**Keywords:** Determinants of childcare, Equity estimator, Location Choice, Density estimation, Forecasting.

## *Introduction*

This study assesses “formal” childcare needs in the Cairns region. In line with Australian Bureau of Statistics (ABS) (2005), Cairns region is defined to include seven Statistical Local Areas (SLAs): Barron, Central Suburbs, City, Mt Whitfield, Northern Suburbs, Trinity and Western Suburbs. Formal childcare is defined as regulated care that takes place away from the child’s home. This definition includes preschool, childcare centre, family day care and occasional care (ABS, 2003).

The findings from this study can be used to set directions for firms seeking to enter the childcare industry or existing firms wanting to expand their childcare operations. New-facility-location decisions require analyses of ‘customer factors’ and the ‘competitive landscape’ of the childcare industry in Cairns. Put simply, a demand-supply assessment of childcare industry is required to decide on entry / expansion options for businesses. This paper provides such analyses by pursuing the following objectives:

1. to describe the spatial pattern of childcare facilities in the Cairns region;
2. to explain why the facilities are located where they are;
3. to identify communities with need for additional childcare places in the region, and
4. to highlight geographical territory(s) that would be ideal location(s) for new childcare facility(s) in the region.

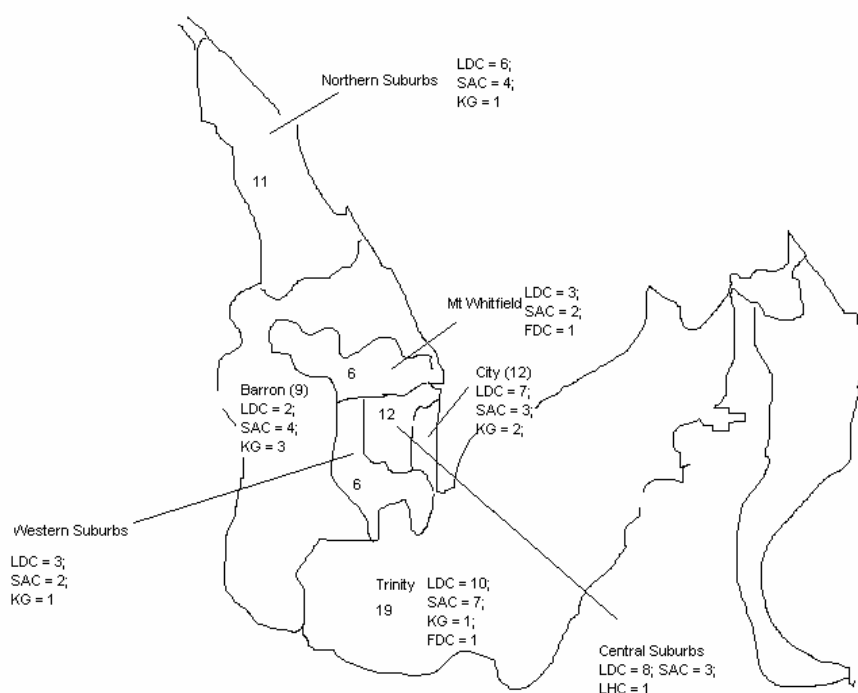
The paper is organized as follows. In order to facilitate readability, a sequential presentation of conceptual frameworks, research methods and findings are discussed for each of the four objectives in Section I of the paper. For example, the discussion on spatial mapping of childcare facilities in Cairns (objective 1) includes a brief discussion about the method employed to map the childcare facilities and the results of the mapping exercise. Section II presents a summary of the research and concludes with strategic recommendations for new entrants to the industry.

## Location of childcare facilities in the region

Today's executive recognizes that graphic summaries of data communicate results better than tables (Shugan, 2004). The advantages of graphics are best captured by the phrase, "a picture is worth more than a thousand words". Our interest is in portraying formal childcare facilities in Cairns using Chloropleth maps (Raisz, 1962). Chloropleth maps describe areas of interest using coloring or shading and indicate values.

Figure 1 highlights the number of centre-based childcare facilities in each of the SLAs. As shown in the Figure, a majority of centre-based facilities are long day cares. In all, there are 39 long day care facilities in the region. Each of these facilities provides an average of 66 childcare places. While 'school age care' is also prevalent in the region (25 facilities), 'limited hours care' is almost non-existent and is provided by only one facility in the Central Suburbs area.

**Figure 1.** Centre-Based Childcare Facilities in Cairns as at April 2005



**Note:** LDC = Long Day Care;  
 SAC = School Age Care;  
 KG = Kindergarten;  
 FDC = Family Day Care, and  
 LHC = Limited Hours Care

Source: Queensland Government (2005).

## Determinants of childcare places

Variability in childcare places among communities is often explained using factors such as number of school age children, unemployment rate, and average income levels (Blain, 2004; Gray, Qu, de Vaus and Millward, 2002; Joesch and Hidemann, 2002). Based on earlier research on the topic (c.f., Evans and Kelley, 2002), we express the supply of childcare places at the community level as follows:

$Q$  (quantity supplied) =  $f$  (Income, Unemployment rate, Proportion of couples with children, Proportion of children in the population, Proportion who work from home (see Table 1 for variable definitions)).

We assume a linear supply function. This results in the expression:

$Q = \sum b_i X_i$  where,  $X_i$  are the independent variables stated above and  $b_i$  are the parameters.

Our interest is in determining the impact of each variable on the criterion variable: that is, to estimate the parameters "b<sub>i</sub>s". Parameters of linear models are generally estimated using Ordinary Least Squares (OLS). However, if the explanatory variables are correlated, then OLS may produce unreliable estimates of parameters (Mahajan, Jain and Bergier, 1977). Often, community-level, socio-economic variables are highly correlated among each other (Shaffer, 1989). Our predictor variables are no exception since we expect variables such as income and unemployment to be related. Multicollinearity can be measured in terms of the ratio of the largest to the smallest eigenvalue of the correlation matrix of the independent variables. This ratio is called the 'condition number' and a value > 1000 is an indication of serious multicollinearity (Myers, 1990). The condition number for our matrix of explanatory variables was 29,108. To overcome this co-linearity problem among predictors, we utilize the 'equity estimator' to estimate the parameters in the linear model (Krishnamurthi and Rangaswamy, 1987).

## Description of the equity estimator

We begin our discussion using a model of the form  $y = X\lambda + \varepsilon$  which is linear in parameters.  $X$  is a  $N \times (K + 1)$  matrix of explanatory variables,  $y$  is a  $N \times 1$  vector of data points of the criterion variable,  $\varepsilon$  is a  $N \times 1$  vector of disturbance terms distributed normally  $(0, \sigma^2)$ ,  $\lambda$  is the true parameter vector, and  $K$  is the number of variables. Note that when  $X$  is centralized and normalized to unit length ( $X_c$ ), the matrix  $X'_c X_c = R$ , the correlation matrix of the explanatory variables. Similarly, the correlation between the centralized and normalized  $y$  ( $y_c$ ) and  $X'_c$  is  $r_{xy} = X'_c y_c$ . The standardized estimated parameter vector is denoted by  $\beta^\wedge$ . Note that the standardized coefficient vector for OLS, that is,  $\beta^\wedge$  (OLS), is given by  $R^{-1} r_{xy}$ .

The difference between OLS and Equity Estimator is that when  $X_c$  is multi-collinear, the impact of each regressor is derived by replacing  $X_c$  with its orthonormal equivalent  $Z$   $\{Z = z_1, z_2, \dots, z_j\}$  where each  $z_j$  is as close as possible, in a least squares sense, to its corresponding independent variable  $x_k$ . The steps involved in computing  $\beta^\wedge$  (Equity Estimator) are:

(i) Compute  $Z = P Q'$  where,  $P$  = the eigenvectors of  $X_c X'_c$  and  $Q$  = the eigenvectors of  $X'_c X_c$ ;

(ii) Regress  $y_c$  against  $Z$  to obtain  $(Z' Z)^{-1} Z' y_c = \eta$ . Since  $Z = P Q'$ , we can rewrite  $\eta$  as follows:  $\eta = (Q P') y_c$ . Since the singular value decomposition of  $X_c$  is given by

$PD^{-1/2} Q'$ , it can be shown that  $P = XcQ^{D-1/2}$ , hence  $\eta = (QD^{-1/2}Q') r_{xy}$ , and  
 (iii) Rescale  $\eta$  to obtain standardized coefficients calibrated in terms of the original "x" variables. In other words,  $\beta^{\wedge}$  (Equity Estimator) =  $v\eta = v(QD^{-1/2}Q') r_{xy}$   
 where,  $v = \eta' r_{xy} / r'_{xy} r_{xy}$

## Data for analysis

Appendix 1 lists the 20 suburbs in Cairns region that provide long day care places to the community. The number of long day care places in these communities range from a low 29 in Palm Cove in the Northern SLA to a high 332 in Manunda in the Central Suburbs. In order to explain the variability, we fitted the model  $y = X\lambda + \varepsilon$ , with data sourced from an internal working document for the city of Cairns prepared by the Office of Economic and Statistical Research (2003), and the Queensland Government's [www.families.qld.gov.au/childcare/search/text/index.cfm](http://www.families.qld.gov.au/childcare/search/text/index.cfm). The variables, their definitions and sources of information for the variables are given in Table 1.

**Table 1.** Variables Employed in the Linear Model

Variable Label	Definition	Source
Y (Criterion)	Number of licensed long day care Places in the suburb	QLD Government (2005)
X1: Income	Median income.	OESR (2003)
X2: Work from home	Proportion in the working population who work from home	OESR (2003)
X3: Employment	Unemployment rate in the suburb	OESR (2003)
X4: Children	Proportion less than 15 years of age in the population	OESR (2003)
X5: Family	Proportion of couple with Children in the population	OESR (2003)

## Results

The results of the regression run highlights the relevance of at least three variables in explaining the existence of long day care places in the suburbs (Table 2). Specifically, the larger the proportion of people working from home, the lower the childcare places in the community. Similarly, the higher the proportion of children in the community, the greater is the number of childcare places. The same is true for the proportion of "couples with children" in the community – the larger the number of couples with children, the greater is the number of long day care places. Finally, our research confirms the findings in the extant literature that income is not a determinant of childcare places (Powlay, 2000).

An implication of the above is that the new entrants to the industry should base their location decisions on pertinent site factors such as proportion of children in the population, and proportion of people working from home in the geographical area.

**Table 2.** Results of the Linear Model

Variable	Estimate	Std. Error	t-value	Prob.	Std. Estimate
Constant	233.3033	145.397	1.604592	0.131	NA
X1: Income	0.002078	0.001803	1.152947	0.268	0.363435
X2: Work from home	-46.3840	16.836544	-2.75496	0.015	-0.58254
X3: Employment	-21.79812	15.785919	-1.38085	0.189	-0.38956
X4: Children	21.69330	6.351222	3.41561	0.004	1.545722
X5: Family	8.259137	3.675436	2.247117	0.041	1.103543

**Note:** (i) Total SS = 117234.550; R-squared = 0.575; Residual SS = 49812.369; Std error of est = 59.649;  $F(5,14) = 3.790$ ; Probability of F = 0.022

(ii) The equivalent OLS estimates are:  $b_0 = 1962.9$ ,  $b_1 = -15.8$ ,  $b_2 = 0.05$ ,  $b_3 = 1.59$ ,  $b_4 = -4.1$ , and  $b_5 = -394.43$

### *Communities with need for additional childcare places*

Data from the Census of Child Care Services 1999 and 2002 suggest that children less than five years of age constitute the major consumers of 'long day care', 'family day care', 'in-home care', and 'occasional care'. On the other hand, 'after school care', and 'vacation care' are largely consumed by children in the 6-12 years of age category. In the following pages, we focus on the 0-12 age group and construct a model to predict changes to this population over time.

### **Population forecasts for the 0-12 age category: 2006 and 2007**

The following mathematical model was implemented at the SLA level to forecast the population numbers:

Model assumptions:

1.  $P = P(t)$  denotes the SLA's total population at time "t";
2. Both births and deaths are proportional to the population size and time interval ( $\delta t$ ). That is, Births =  $xP\delta t$ , deaths =  $yP\delta t$  where  $x$  and  $y$  are constants

Thus, increase in population during the time interval ' $\delta t$ ' is given by:

$$\delta P = xP\delta t - yP\delta t \quad (1)$$

which can be rewritten as:

$$(x-y) P\delta t = \theta P\delta t \quad (2)$$

where,  $\theta = (x-y)$ .

The above formulation leads to the first-order differential equation:

$$\delta P / \delta t = \theta P \text{ or}$$

$$[(1/P) (\delta P / \delta t)] = \theta \quad (3)$$

Integrating the above equation with respect to 't' yields:

$$\int [(1/P) (\delta P / \delta t)] = \int \theta \delta t$$

$$\text{or } \int [(1/P) \delta P = \theta t + C \quad (4)$$

where, C = constant

$$\ln P = \theta t + C \quad (5)$$

at 't' = 0, we have:  $P_0 = e^{\theta t + C}$  which can be expressed as:

$$P_0 = ke^{\theta t} = k \quad (6)$$

Similarly, for 't' = 1, we get:

$\ln P_1 = \theta_1 + C$  which can be rewritten as:

$$P_1 = e^{\theta_1 + C} \text{ or alternatively, } P_0 e^{\theta} = P_1 \quad (7)$$

The prediction model was fitted to population data sourced from Australian Bureau of Statistics (ABS) *Census of Population and Housing 1991, 1996, 2001* and Cairns' City Council's on line publications (see [http://www.cairns.qld.gov.au/community/profiles/social\\_demographic\\_profile\\_cairns\\_LGA.htm](http://www.cairns.qld.gov.au/community/profiles/social_demographic_profile_cairns_LGA.htm)). In all, 13 prediction equations were developed for each of the seven SLAs resulting in a total of 91 prediction equations for each of the forecast year. Each equation represented an age group within the 0 to 12 years of age category. Table 3 shows the numerical values for a sample of six of the 13 prediction equations employed to forecast population growth for the 'Cairns City' area (SLA 350052066). Appendix 2 contains forecasts for all of the age groups and the SLAs.

**Table 3.** Prediction Equations for Cairns City: Age Group 0 to 5

Age	Base Population (2001)	$\theta$ (Growth Parameter)	Population Forecast for 2006
< 1	121	0.05	154
1 - < 2	66	0.04	79
2 - < 3	57	-0.03	48
3 - < 4	59	0.05	74
4 - < 5	52	~0	51
5 - < 6	56	0.02	63

## Market Potential

Childcare consumption data (ABS, 2003) were used as weights to compute market potential for the industry, in each of the SLA. This entails computing potential consumer share or potential 'transaction quantity' for the formal childcare industry in Cairns. For instance, consider the "6 years of age" segment in the region. From Appendix 2, we know that the forecast population for this segment for 2006 is 1980. We apply a 0.13 weighting to this number – 13% being the average childcare usage



rate among children in this population (ABS, 2003), to arrive at a potential transaction quantity of 257 for the 6 years of age segment. Table 4 lists the market potential for the Cairns region. Appendix 3 highlights the market potential, age-wise, for each of the SLAs for 2006 and 2007.

**Table 4.** Market Potential Computations: Weights and Predictions for 2006 and 2007

Age	Proportion of Population in Childcare*	Predictions for 2006	Predictions for 2007
0	0.07	121	120
1	0.27	453	455
2	0.41	772	783
3	0.63	1008	1009
4	0.83	1346	1345
5	0.28	492	500
6	0.13	257	264
7	0.13	237	241
8	0.13	270	284
9	0.07	145	151
10	0.07	148	155
11	0.07	127	130
12	0.07	143	149

\*Source: ABS (2003).

As at February 2006, there were 39 long day cares, 25 school age cares, three family day cares, and nine kindergartens in the region that had a combined total of more than 2829 licensed places (Appendix 1). This figure translates into approximately 0.51 places per child in the target age group during 2006: that is, market potential for children in the 0-12 years of age / number of licensed childcare places. If we restrict our focus to children in the “0-5 age group”, then there are 0.67 places for each child in the Cairns region. As regards “after school care” market, there were 25 businesses competing for 1328 potential users in the 6-12 years of age category (Appendix 3).

Given these numbers, is there a need for additional, formal childcare places in the region? This question is addressed next.

### Demand-Supply Gaps

In order to highlight the demand-supply gap for childcare places in Cairns, we employ the kernel density approach to “customer-density” analysis (Silverman, 1986). As mentioned earlier, demand refers to the potential ‘transaction quantity’ for the formal childcare industry (Appendix 3) and supply refers to the actual licensed childcare places in the Cairns region (Appendix 1). Donthu and Rust (1989) have shown the superiority of kernel density approach over methods such as histogram for density estimation purposes. For this exercise, we employ as kernel function (K) a standard normal bivariate distribution. In line with common practice, the bandwidth “h” was chosen to minimize the approximate mean integrated square error (MISE) of the estimated density. Note that,

$$\text{MISE} = \int E \{f^{\wedge}(\mathbf{x}) - f(\mathbf{x})\}^2 dx$$

$$= \int \text{MSE} (f \wedge) dx$$

$$= \int E \{f \wedge(\mathbf{x}) - f(\mathbf{x})\}^2 dx + \int \text{var} f \wedge(\mathbf{x}) dx$$

The kernel estimate defined in “d” dimensions can be written as:

$$f(\mathbf{x}) = (nh^d)^{-1} \sum_i K((\mathbf{x} - \mathbf{x}_i) / h)$$

Where the “x” variables in f(x) are the two-dimensional Cartesian coordinates of Figure 1.

The kernel function has the following properties:

$$0 < K(x) < C; \quad (i)$$

$$K(x) = K(-x); \quad (ii)$$

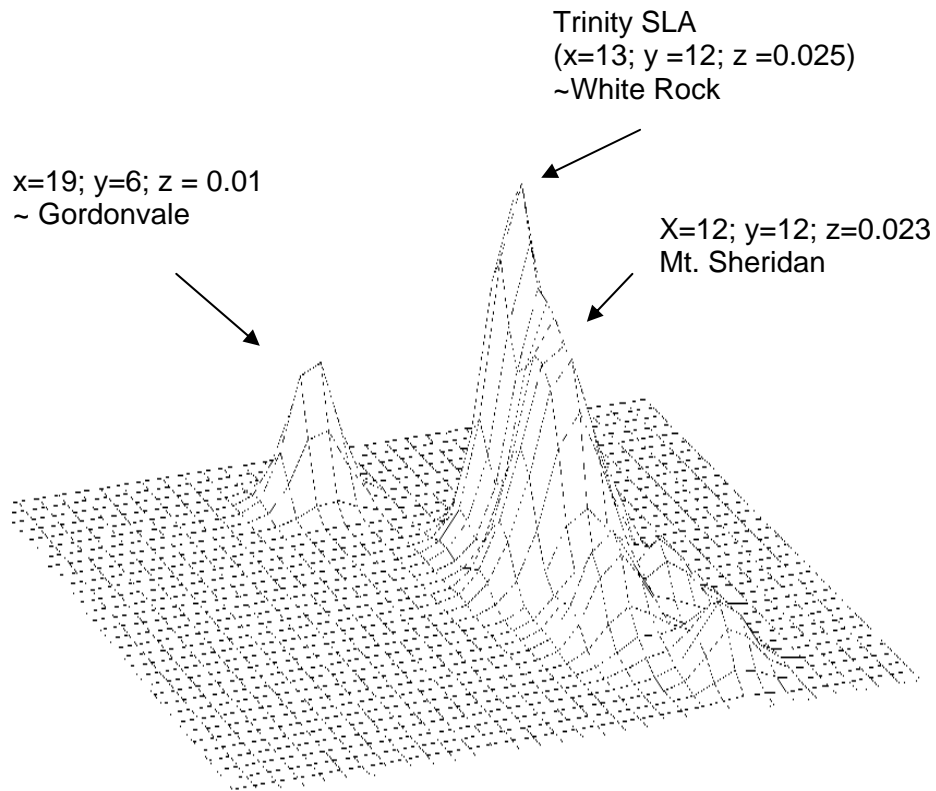
$$\int K(x) dx = 1; \quad (iii)$$

$$\int K(x)x dx = 1; \quad (iv)$$

$$h \rightarrow 0 \text{ as } n \rightarrow \infty \quad (v)$$

Four of the seven SLAs in the region have gaps in excess of 100 places (Appendix 4). The Trinity SLA has the most need for additional childcare places (1061 places). Figure 2 shows the kernel density plot of gaps in childcare places. For instance, the SLA “Barron” has a market potential for 958 places for 2006 (Appendix 3). It has an estimated supply of 421 places: a gap of 537 places. Within Barron, the suburb ‘Brinsmead’ has a gap of 162 childcare places (Appendix 4). We input Brinsmead’s details into the kernel estimate to arrive at a density value of 1.6 E-12 (z axis in Figure 2). Figure 2 was constructed as follows. First, we adapted from ABS (2005) a Cairns regional map that contained all of the seven SLAs and their suburbs (see Figure 1). Next, we partitioned the map finely into 1089 x, y coordinates or grid (33 partitions for each axes). Finally, we superimposed the “z” axis (density estimates) on to the x and y axes, to arrive at Figure 2.

**Figure 2.** Customer Density Assessment based on Demand-Supply Gaps: Kernel Density Plot



**Note:** Appendix 5 provides details related to x, y and z coordinates for suburbs in each of the seven SLAs.

### ***Ideal location for a new childcare facility***

To identify the location for new childcare facility, we begin with the density estimate  $f(x,y)$  (see Figure 2 and Appendix 5), and express the market share of childcare facility(s) at location “j” as:

$$MS_j = \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} f(x,y) P_j(x,y) dx dy$$

where  $f(x,y)$  is the demand-supply gaps given in Appendix 5 and  $P_j(x,y)$  is similar to Luce’s formulation for choice: that is,  $U_j / \sum_i U_k$  (Luce, 1959).

Specifically, in line with gravity models (Donthu and Rust, 1989), it is assumed that childcare decisions are made under conditions of uncertainty; utility for a customer is based on her expectation of costs and benefits associated with childcare at location “j”.

We compute  $U_j$  as an exponential function of the distance between childcare facility(s) in one location and other geographical areas. That is:

$$U_j = \exp (-d_j^2)$$

The optimal location ( $x^*$ ,  $y^*$ ) is found by maximising “MS”. We employ the Newton search procedure to find the local optima.

## Results

The geographical area with coordinates  $x = 13$  and  $y = 12$  within “Trinity” would be the ideal location for a new childcare facility. This location would give the new facility a 7% market share for formal care in the region (approximately 70 places in the Trinity SLA). Table 5 shows that the new facility would also attract customers from Edmonton, Bentley Park, and White Rock suburbs.

**Table 5.** Market Share Estimation

<b>SLA</b>	<b>Estimated Market Share Before the New Entry</b>	<b>Estimated Market Share After the New Entry</b>
Bentley Park	13%	12%
Edmonton	20%	17%
White Rock	26%	23%

## Summary and Conclusion

The results of this study can be summarized as follows:

1. There are 39 long day care facilities in the Cairns region. Each of these facilities provides an average of 66 childcare places. While 'school age care' is also prevalent in the region (25 facilities), 'limited hours care' is almost non-existent and is provided by only one facility in the Central Suburbs area.

2. The variability in childcare places in the region can be explained by three factors:

- a. People working from home: the larger the proportion of people working from home, the lower the childcare places in the community;
- b. Couples with children: the larger the number of couples with children, the greater is the number of long day care places;
- c. Number of children: the higher the proportion of children in the community, the greater the number of childcare places.

Our research confirms the findings in the extant literature that household income is not a determinant of childcare places.

3. Four of the seven SLAs in the region: Barron, Central Suburbs, Trinity, and Western Suburbs, have gaps in excess of 100 places (Appendix 4). Trinity SLA has the most need for additional childcare places (827 places).

4. A geographical region within the Trinity SLA would be the ideal location for a new childcare facility (see Figure 3; the Cartesian coordinates are:  $x = 13$ ,  $y = 12$ , and  $z = 0.025$ ). This location would attract customers from Edmonton, Bentley Park, and White Rock suburbs.

In conclusion, we believe that the formal care market in Cairns is **attractive** for the following reasons:

- a. **Category Size**: The market potential is 5520 places. There is a gap of at least 2691 places in the region.
- b. **Category Growth**: Overall, user population is growing. In addition, the federal government has announced funding for new childcare places in the region making it attractive for new entrants to the industry (The Australian, May 11, 2005).

Given the existing trend in the industry for long day cares to offer extra services such as outside school hours care, and vacation care, it would be strategically important for a new facility to offer the following range of services: After School Care, Before School Care, Outside kindergarten hours care, Vacation Care, and Casual Care.

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**APPENDIX 1: FORMAL CHILDCARE IN THE CAIRNS REGION: AN SLA-WISE ANALYSIS****SLA: BARRON****(i) LONG DAY CARE**

<b>Name of Business</b>	<b>Address</b>	<b>Postcode</b>	<b>License d capacit y</b>	<b>Hours of operation</b>	<b>Extra services</b>
Hutchison's Early Learning Centre Brinsmead	83 Loridan Drive	Brinsmead, 4870	74	52 weeks M-F:06:30AM– 06:30 PM	After School Care, Before School Care, Casual Care, Outside kindergarten hours care, Pupil-free Days, Vacation Care
Redlynch Daycare & Early Childhood Development Centre	Fairweather Road	Redlynch, 4870	74	52 weeks M-F:07:00AM– 06:00 PM	

**(ii) SCHOOL AGE CARE**

<b>Name of Business</b>	<b>Address</b>	<b>Postcode</b>	<b>License d capacit y</b>	<b>Hours of operation</b>	<b>Extra services</b>
Peace Lutheran College After School Care	Cowley Street	Kamerunga , 4870			After School Care
Machans Beach After School Care	Machans Beach State School, 61 Machans Street	Machans Beach, 4878			
Redlynch State School After School & Vacation Care	Redlynch State School, Jungara Road	Redlynch, 4870			After School Care, Pupil-free Days, Vacation Care
St Andrew's Redlynch Valley Outside School Hours Care	St Andrews Catholic College, Intake Rd	Redlynch, 4870			



Name of Business	Address	Postcode	License d capacit y	Hours of operation	Extra services
Yorkeys Knob State School After School Care	Clinton Street	Yorkeys Knob, 4878			After School Care, Before School Care, Pupil-free Days, Vacation Care
Caravonica Outside School Hours Care	Caravonica State School, Lot 3 Kamerunga Road	Caravonica , 4878	30		After School Care, Pupil-free Days, Vacation Care

**(iii) KINDERGARTEN**

Name of Business	Address	Postcode	License d capacit y	Hours of operation	Extra services
Redlynch Kindergarten	Margaret Street	Redlynch, 4870	24	M-F: 09:00 AM – 02:30 PM	
Holloways Beach Community Kindergarten and Preschool	7 Jacaranda Street	Holloways Beach, 4878	25	42 weeks M: 09:00 AM – 02:30 PM T-F: 09:00 AM – 02:30 PM	
Yorkeys Knob Community Kindergarten and Preschool	35 Best Street	Yorkeys Knob, 4878	25	40 weeks M-F: 09:00 AM – 02:30 PM	

**SLA: CENTRAL SUBURBS****(i) LONG DAY CARE**

<b>Name of Business</b>	<b>Address</b>	<b>Postcode</b>	<b>License d capacit y</b>	<b>Hours of operation</b>	<b>Extra services</b>
ABC Developmental Learning Centre – Manoora	12-14 Reservoir Road	Manoora, 4870	74	52 weeks M-F:06:30 AM– 06:30 PM	After School Care, Before School Care, Outside kindergarten hours care, Pupil-free Days, Vacation Care
ABC Developmental Learning Centre – Manunda	70 Anderson Street	Manunda, 4870	61	52 weeks M-F:06:30 AM– 06:30 PM	After School Care, Before School Care, Outside kindergarten hours care, Pupil-free Days, Vacation Care
ABC Developmental Learning Centre – Manunda West	160-162 Hoare Street	Manunda, 4870	74	52 weeks M-F:06:30 AM– 06:30 PM	After School Care, Before School Care, Casual Care, kindergarten, Outside hours care, Vacation Care
Callum Early Learning	100 Callum Street	Mooroolbark, 4870	74	52 weeks M-F:06:30 AM– 06:30 PM	After School Care, Before School Care, Casual Care, Outside kindergarten hours care, Pupil-free Days, Rotating shift, Vacation Care
Childs Play Day Care Centre	38 James Street	Manunda, 4870	62	51 weeks M-F:06:45AM– 06:15 PM	
Hutchison’s Early Learning Centre Westcourt	40-42 Tills Street	Westcourt, 4870	74	52 weeks M-F:06:30AM– 06:30 PM	After School Care, Before School Care, Casual Care, Outside kindergarten hours care, Pupil-free Days, Vacation Care

Name of Business	Address	Postcode	License d capacit y	Hours of operation	Extra services
Mooroobool Children's Centre	120 Swallow Street	Mooroobool, 4870	50	52 weeks M-F:07:00AM-06:00 PM	Casual Care, Vacation Care
Waratah Drive Child Care Centre	8 Waratah Drive	Manunda, 4870	75	52 weeks M-F:07:00AM-06:00 PM	After School Care, Before School Care, Casual Care, Outside kindergarten hours care, Pupil-free Days, Rotating shift, Vacation Care

**(ii) SCHOOL AGE CARE**

Name of Business	Address	Postcode	License d capacit y	Hours of operation	Extra services
Cairns Pyc After School Care and Vacation Care	91-97 Macnamara Street	Manunda, 4870			After School Care, Pupil-free Days, Vacation Care
Cairns West State School Outside School Hours Care	Mayers Street	Manunda, 4870			After School Care, Pupil-free Days, Vacation Care

**(iii) KINDERGARTEN**

Name of Business	Address	Postcode	License d capacit y	Hours of operation	Extra services
Boopa Werem Community Kindergarten & Preschool	12-16 Barrett Street	Bungalow, 4870	50	39 weeks M-F: 09:00 AM – 02:30 PM	

**(iv) LIMITED HOURS CARE**

<b>Name of Business</b>	<b>Address</b>	<b>Postcode</b>	<b>License d capacit y</b>	<b>Hours of operation</b>	<b>Extra services</b>
Tinker, Tailor... Child Care Centre	3 Jensen Street	Manoora, 4870	21	40 weeks Mon: 09:00 AM – 12:00 PM Wed: 09:00 AM – 12:00 PM Th: 09:00 AM – 12:00 PM	

**SLA: CITY**

**(i) LONG DAY CARE**

<b>Name of Business</b>	<b>Address</b>	<b>Postcode</b>	<b>License d capacit y</b>	<b>Hours of operation</b>	<b>Extra services</b>
ABC Developmental Learning Centre – Brinsmead	150 Loridan Street Brinsmead	Cairns, 4870	75	52 weeks; M-F:06:30 AM– 06:30 PM	After School Care, Before School Care, Outside kindergarten hours care, Pupil-free Days, Vacation Care
ABC Developmental Learning Centre – Westcourt	274 Buchan Street	Cairns, 4870	50	52 weeks M-F:06:30 AM– 06:30 PM	After School Care, Before School Care, Pupil-free Days, Vacation Care
Cairns Tafe Community Child Care Centre	2 Newton Street Manunda	Cairns, 4870	44	50 weeks M-F:07:30 AM– 06:30 PM	
Just Kids Child Care Centre	219 Draper Street	Cairns, 4870	59	52 weeks M-F:07:00AM– 06:30 PM	After School Care, Before School Care Casual Care

<b>Name of Business</b>	<b>Address</b>	<b>Postcode</b>	<b>License d capacit y</b>	<b>Hours of operation</b>	<b>Extra services</b>
					Outside kindergarten hours care, Pupil-free Days, Vacation Care
Sheridan Child Care Centre	365 Sheridan Street	Cairns, 4870	73	52 weeks M-F:06:30AM– 06:00 PM	Casual Care, Outside kindergarten hours care, Pupil-free Days, Rotating shift
Water St Occasional Care Centre	70 Water Street	Cairns, 4870	36	50 weeks M-F:08:00AM– 04:00 PM	Casual Care

**(ii) SCHOOL AGE CARE**

<b>Name of Business</b>	<b>Address</b>	<b>Postcode</b>	<b>License d capacit y</b>	<b>Hours of operation</b>	<b>Extra services</b>
North Cairns Parish Outside School Hours Care	Mother of Good Counsel School, 392 Sheridan Street	North Cairns, 4870			After School Care, Pupil-free Days, Vacation Care
Parramatta State School After School Care	122 Mulgrave Road	Cairns, 4870			After School Care, Before School Care, Pupil-free Days, Vacation Care
St. Joseph's Parramatta Outside School Hours Care	13 Loeven Street	Parramatta Park, 4870	75		
Whitfield After Hours School Care	Cnr Marino & Mcmanus Streets	Cairns, 4870	50		After School Care Pupil-free Days

**(iii) KINDERGARTEN**

<b>Name of Business</b>	<b>Address</b>	<b>Postcode</b>	<b>License d capacit y</b>	<b>Hours of operation</b>	<b>Extra services</b>
Cairns Community Kindergarten & Pre School	174-178 Gatton Street	Cairns, 4870	24	41 weeks M-F: 08:45 AM – 02:15 PM	
Whitfield Community Kindergarten	Marino Street Whitfield	Cairns, 4870	42	40 weeks M-F: 08:45 AM – 02:30 PM	

**SLA: Mt WHITFIELD**

**(i) LONG DAY CARE**

<b>Name of Business</b>	<b>Address</b>	<b>Postcode</b>	<b>License d capacit y</b>	<b>Hours of operation</b>	<b>Extra services</b>
Edge Hill Child Care Centre	274 Pease Street	Edge Hill, 4870	36	51 weeks M-F:07:00AM–06:00 PM	After School Care, Before School Care, Casual Care, Outside kindergarten hours care, Pupil-free Days, Vacation Care
Pelicans in the Park Early Learning & Child Care Centre	32-36 Arthur Street	Edge Hill, 4870	75	52 weeks M-F:06:30AM–06:00 PM	Before School Care, Outside kindergarten hours care
Sunshine Day Care Centre	41-45 Aeroglen Drive	Aeroglen, 4870	74	52 weeks M-S:06:30AM–06:00 PM	After School Care, Before School Care, Casual Care, Outside kindergarten hours care, Pupil-free Days, Rotating shift, Vacation Care

**(ii) SCHOOL AGE CARE**

<b>Name of Business</b>	<b>Address</b>	<b>Postcode</b>	<b>License d capacit y</b>	<b>Hours of operation</b>	<b>Extra services</b>
Edge Hill State School Outside School Hours Care	Edge Hill State School 254 Pease Street	Edge Hill, 4870	75		After School Care, Pupil-free Days, Vacation Care
Freshwater Outside School Hours Care	Freshwater State School Corkill Street	Freshwater , 4870	65		After School Care, Before School Care, Pupil-free Days, Vacation Care

**(iii) FAMILY DAY CARE**

<b>Name of Business</b>	<b>Address</b>	<b>Postcode</b>	<b>License d capacit y</b>	<b>Hours of operation</b>	<b>Extra services</b>
Cairns Central Family Day Care Scheme	108 Collins Avenue	Edge Hill, 4870		51 weeks M-F: 08:30 AM – 04:00 PM	

**SLA: NORTHERN SUBURBS****(i) LONG DAY CARE**

<b>Name of Business</b>	<b>Address</b>	<b>Postcode</b>	<b>License d capacit y</b>	<b>Hours of operation</b>	<b>Extra services</b>
ABC Developmental Learning Centre – Smithfield Centre 1	4 Faculty Close	Smithfield, 4878	75	52 weeks M-F:06:30AM– 06:30 PM	After School Care, Before School Care, Outside kindergarten hours care, Pupil-free Days, Vacation Care
ABC Developmental Learning Centre – Smithfield Centre 2	Cnr McGregor Road and Faculty Close	Smithfield, 4878	55	52 weeks M-F:06:30AM– 06:30 PM	After School Care, Before School Care, Outside kindergarten hours care, Pupil-free Days, Rotating shift, Vacation Care
Johnny Crow's Child Care Centre	72 Johanna Street	Trinity Beach, 4879	58	52 weeks M-F:06:30AM– 06:00 PM	Casual Care, Pupil-free Days, Rotating shift
Kewarra Beach Early Learning Centre	11-13 Cottesloe Drive	Kewarra Beach, 4879	74	52 weeks M-F:07:00AM– 06:00 PM	
Novotel Palm Cove Resort Day Care Centre	Coral Coast Drive	Palm Cove, 4879	29	52 weeks M-F:08:00AM– 06:00 PM	
Smithfield Child Care Centre	64 Cheviot Street	Smithfield, 4878	61	51 weeks M-F:07:30AM– 06:00 PM	



**(ii) SCHOOL AGE CARE**

<b>Name of Business</b>	<b>Address</b>	<b>Postcode</b>	<b>License d capacit y</b>	<b>Hours of operation</b>	<b>Extra services</b>
Holy Cross Catholic School Outside School Hours Care	Holy Cross Preschool Reed Rd	Trinity Park, 4879			After School Care, Pupil-free Days, Vacation Care
Trinity Anglican School After School Care – Marlin Coast	Poolwood Road	Kewarra Beach, 4879			After School Care
Trinity Beach Outside School Hours Care	Trinity Beach State School, Cnr Wewak and Huon Streets	Trinity Beach, 4879			
Ymca Smithfield Vacation Care	Leisure Park Road	Smithfield, 4878			Vacation Care

**(iii) KINDERGARTEN**

<b>Name of Business</b>	<b>Address</b>	<b>Postcode</b>	<b>License d capacit y</b>	<b>Hours of operation</b>	<b>Extra services</b>
Trinity Beach Community Kindergarten	51-79 Trinity Beach Road	Trinity Beach, 4879	20	41 weeks M-F: 08:45 AM – 02:15 PM	

(iv) **FAMILY DAY CARE**

Name of Business	Address	Postcode	License d capacit y	Hours of operation	Extra services
Marlin Coast Family Day Care Scheme	1 – 2/8 Maisel Close	Smithfield, 4878		50 weeks M-F: 08:00 AM – 04:00 PM	

**SLA: TRINITY**

(i) **LONG DAY CARE**

Name of Business	Address	Postcode	License d capacit y	Hours of operation	Extra services
ABC Developmental Learning Centre – Edmonton	189 – 191 Bruce Highway	Edmonton, 4869	75	52 weeks; M-F:06:30 AM–06:30 PM	After School Care, Before School Care, Outside kindergarten hours care, Pupil-free Days, Vacation Care
ABC Developmental Learning Centre – Forest Gardens Baby World	Lot 700 Benjamina Street	Forest Gardens, 4868	36	52 weeks; M-F:06:30 AM–06:30 PM	
ABC Developmental Learning Centre – Forest Gardens Centre One	Lot 700 Benjamina Street	Forest Gardens, 4868	64	52 weeks; M-F:06:30 AM–06:30 PM	
ABC Developmental Learning Centre – Tamarind Gardens	36 Trafalgar Road Tamarind Gardens	Edmonton, 4869	74	52 weeks M-F:06:30 AM–06:00 PM	
ABC Developmental Learning Centre – Woree	56-62 Anderson Road	Woree, 4868	75	52 weeks M-F:06:30 AM–06:30 PM	After School Care, Before School Care, Outside kindergarten hours care, Pupil-free Days, Vacation Care
Balaclava Road Children’s Centre	84-86 Balaclava	Earlville,	65	51 weeks	After School Care, Before School

Name of Business	Address	Postcode	License d capacity	Hours of operation	Extra services
	Rd	4870		M-F:07:00 AM–06:30 PM	Care, Outside kindergarten hours care, Pupil-free Days, Vacation Care
Bibanbaye Kindergarten & Day Care Centre	9 Brose Street	White Rock, 4868	74	52 weeks M-F:06:30 AM–06:30 PM	
Cat and Fiddle Kindy and Child Care Centre	60-64 Robert Road Centenary Park	Edmonton, 4869	75	52 weeks M-F:06:30 AM–06:00 PM	Care, Before School Care, Casual Care, Outside kindergarten hours care, Pupil-free Days, Vacation Care
Centenary Park Early Learners Childcare Centre	2-4 Kangaroo Street	Centenary Park, 4869	75	52 weeks M-F:06:30 AM–06:00 PM	Care, Before School Care, Casual Care, Outside kindergarten hours care, Pupil-free Days, Vacation Care
Kawana Kindergarten & Day Care	3 Charlotte Close	Woree, 4868	75	52 weeks M-F:06:00AM–06:00 PM	After School Care, Before School Care, Casual Care, Pupil-free Days, Vacation Care
Southside Early Learning Child Care Centre	24 Ravizza Drive	Edmonton, 4869	74	52 weeks M-F:06:30AM–06:00 PM	After School Care, Before School Care, Casual Care, Outside kindergarten hours care, Pupil-free Days, Vacation Care

(ii) **SCHOOL AGE CARE**

Name of Business	Address	Postcode	License d capacity	Hours of operation	Extra services

Hambledon Outside School Hours Care	Hambledon State School 79-81 Stokes Street	Edmonton, 4869	15		After School Care, Pupil-free Days, Vacation Care
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Name of Business	Address	Postcode	License d capacity	Hours of operation	Extra services
P&j Murray's Day Care Service/st Therese's School	St Therese's School, 135-167 Robert Road	Edmonton, 4869			After School Care, Before School Care, Pupil-free Days, Vacation Care
P&j Murray's Day Care Service/ Bentley Park College	Bentley Park College, Mclaughlin Road	Edmonton, 4869			After School Care, Before School Care, Pupil-free Days, Vacation Care
St Gerard Majella Outside School Hours Care	St Gerard Majella, 63 Anderson Road	Woree, 4868			
Trinity Anglican After School Care – White Rock	Cnr Leftwich & Progress Roads	White Rock, 4868			
Whiterock State School Outside School Hours Care	White Rock State School, Progress Road	White Rock, 4868	30		After School Care, Pupil-free Days, Vacation Care
Woree State Primary School out of School Hours Care	Rigg Street	Woree, 4868			After School Care

(iii) **KINDERGARTEN**

Name of Business	Address	Postcode	License d capacity	Hours of operation	Extra services
Edmonton Community Kindergarten	19 Harthill Street	Edmonton, 4869	21	41 weeks M-Tue: 09:00 AM – 02:30 PM	

				W-F: 08:45 AM – 11:45 AM	
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(iv) **FAMILY DAY CARE**

Name of Business	Address	Postcode	License d capacit y	Hours of operation	Extra services
Family Day Care South Cairns	27 Windarra Street	Woree, 4868		51 weeks M-F: 08:30 AM – 04:30 PM	

**SLA: WESTERN SUBURBS**

(i) **LONG DAY CARE**

Name of Business	Address	Postcode	License d capacit y	Hours of operation	Extra services
ABC Developmental Learning Centre – Kanimbla Centre 1	Cnr Beatrice and Irene Streets	Kanimbla, 4870	75	52 weeks; M-F:06:30 AM– 06:30 PM	
ABC Developmental Learning Centre – Kanimbla Centre 2	54 Beatrice Street	Kanimbla, 4870	75	52 weeks; M-F:06:30 AM– 06:30 PM	
Earlville Early Learning Centre	29 Cavallaro Ave	Earlville, 4870	40	51 weeks M-F:07:00AM– 06:00 PM	Casual Care, Outside kindergarten hours care, Pupil-free Days, Rotating shift, Vacation Care

(ii) **SCHOOL AGE CARE**

Name of Business	Address	Postcode	License d	Hours of operation	Extra services
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			<b>capacit y</b>		
Balaclava After School and Vacation Care	Balaclava State School 418 Mulgrave Road	Earlville, 4870			After School Care, Pupil-free Days, Vacation Care

<b>Name of Business</b>	<b>Address</b>	<b>Postcode</b>	<b>License d capacit y</b>	<b>Hours of operation</b>	<b>Extra services</b>
P&j Murray's Day Care Service/our Lady Help of Christians	Our Lady Help of Christians, 18 Balaclava Road	Earlville, 4870			After School Care, Pupil-free Days, Vacation Care

(iii) **KINDERGARTEN**

<b>Name of Business</b>	<b>Address</b>	<b>Postcode</b>	<b>License d capacit y</b>	<b>Hours of operation</b>	<b>Extra services</b>
Bayview Heights Community Kindergarten	6-8 Jasper Street	Bayview Heights, 4868	24	41 weeks M-F: 08:45 AM – 02:15 PM	

**Notes:**

1. Blanks denote that the information is not available;
2. Licensed capacity, if missing, was imputed a value of 25 places to arrive at a final supply figure for the SLA

### Appendix 2. Population Projections: Cairns SLAs, 2006

Region	Age 0	Age 1	Age 2	Age3	Age 4	Age 5	Age 6	Age 7	Age 8	Age 9	Age 10	Age 11	Age 12	0-5 Total	6+ Total	Total
Barron (SLA 350052062)	269	288	265	303	306	285	298	307	349	328	379	380	398	1716	2439	4155
Central Suburbs (SLA 350052065)	319	275	373	329	250	250	287	271	256	324	276	284	266	1796	1964	3760
City (SLA 350052066)	154	79	48	74	51	63	43	41	64	54	29	47	60	469	338	807
Mt Whitfield (SLA 350052068)	133	120	136	133	94	139	162	130	131	180	173	158	175	755	1109	1864
Northern Suburbs (SLA 350052072)	158	203	211	164	143	199	214	192	195	280	292	182	273	1078	1628	2706
Trinity (SLA 350052074)	509	563	698	511	594	715	825	734	933	760	734	580	718	3590	5284	8874
Western Suburbs (SLA 350052076)	182	151	152	86	184	107	151	145	151	147	232	190	153	862	1169	2031

### Population Projections: Cairns SLAs, 2007

Region	Age 0	Age 1	Age 2	Age3	Age 4	Age 5	Age 6	Age 7	Age 8	Age 9	Age 10	Age 11	Age 12	0-5 Total	6+ Total	Total
Barron (SLA 350052062)	271	290	266	306	309	287	299	311	360	335	395	398	417	1729	2515	4244
Central Suburbs (SLA 350052065)	321	274	383	333	247	245	291	270	258	336	279	291	269	1803	1995	3798
City (SLA 350052066)	161	82	46	77	51	65	42	40	66	54	27	47	59	483	335	818
Mt Whitfield (SLA 350052068)	133	118	135	132	89	139	163	129	129	186	177	162	176	746	1122	1869
Northern Suburbs (SLA 350052072)	155	204	211	160	138	197	214	191	192	287	305	177	282	1065	1648	2714
Trinity (SLA 350052074)	506	566	716	510	599	748	876	776	1016	809	787	600	773	3646	5636	9282
Western Suburbs (SLA 350052076)	190	152	151	82	188	103	148	142	150	144	241	193	150	867	1169	2035

### Appendix 3: Market Potential 2006

Region	Age 0	Age 1	Age 2	Age 3	Age 4	Age 5	Age 6	Age 7	Age 8	Age 9	Age 10	Age 11	Age 12	0-5 Total	6+ Total	Total
Barron (SLA 350052062)	19	78	109	191	254	80	39	40	45	23	27	27	28	730	228	958
Central Suburbs (SLA 350052065)	22	74	153	207	208	70	37	35	33	23	19	20	19	734	186	921
City (SLA 350052066)	11	21	20	47	42	18	6	5	8	4	2	3	4	158	33	191
Mt Whitfield (SLA 350052068)	9	32	56	84	78	39	21	17	17	13	12	11	12	298	103	401
Northern Suburbs (SLA 350052072)	11	55	87	103	119	56	28	25	25	20	20	13	19	430	150	580
Trinity (SLA 350052074)	36	152	286	322	493	200	107	95	121	53	51	41	50	1489	519	2008
Western Suburbs (SLA 350052076)	13	41	62	54	153	30	20	19	20	10	16	13	11	353	109	461

### Market potential 2007

Region	Age 0	Age 1	Age 2	Age 3	Age 4	Age 5	Age 6	Age 7	Age 8	Age 9	Age 10	Age 11	Age 12	0-5 Total	6+ Total	Total
Barron (SLA 350052062)	19	78	109	193	256	80	39	40	47	23	28	28	29	736	234	970
Central Suburbs (SLA 350052065)	22	74	157	210	205	69	38	35	34	24	20	20	19	737	189	926
City (SLA 350052066)	11	22	19	49	42	18	5	5	9	4	2	3	4	161	32	194
Mt Whitfield (SLA 350052068)	9	32	55	83	74	39	21	17	17	13	12	11	12	293	104	397
Northern Suburbs (SLA 350052072)	11	55	87	101	115	55	28	25	25	20	21	12	20	423	151	574
Trinity (SLA 350052074)	35	153	294	321	497	210	114	101	132	57	55	42	54	1510	555	2065
Western Suburbs (SLA 350052076)	13	41	62	52	156	29	19	18	20	10	17	14	11	353	108	461



**Appendix 4. Demand-Supply Gaps in Childcare Places: Suburb-wise Analysis**

<b>Barron (SLA 350052062)</b>	<b>Postcode</b>	<b>Gap</b>
CARAVONICA	4878	72
HOLLOWAYS BEACH	4878	112
KAMERUNGA	4870	24
MACHANS BEACH	4878	22
REDLYNCH	4870	78
YORKEYS KNOB	4878	98
BRINSMEAD	4870	162
<b>Total FOR SLA</b>		<b>568</b>
<b>Central Suburbs (SLA 350052065)</b>		
BUNGALOW	4870	41
MANOORA	4870	138
MANUNDA	4870	-123
MOOROBOOL	4870	137
WESTCOURT	4870	7
<b>Total FOR SLA</b>		<b>201</b>
<b>City (SLA 350052066)</b>		
CAIRNS CITY	4870	-402
CAIRNS NORTH	4870	69
PARRAMATTA PARK	4870	-10
<b>Total for SLA</b>		<b>-343</b>
<b>Mt Whitfield (SLA 35005268)</b>		
AEROGLEN	4870	-48
EDGE HILL	4870	58
FRESHWATER	4870	32
<b>TOTAL FOR SLA</b>		<b>42</b>

<b>Northern Suburbs (SLA 350052072)</b>	<b>Postcode</b>	<b>Gap</b>
CLIFTON BEACH	4879	85
KEWARRA BEACH	4879	16
PALM COVE	4879	44
TRINITY BEACH	4879	38
TRINITY PARK	4879	4
SMITHFIELD	4878	-134
ELLIS BEACH		0
<b>Total FOR SLA</b>		<b>52</b>
<b>Trinity (SLA 350052074)</b>		
CENTENARY PARK	4869	174
BENTLEY PARK	4869	271
EDMONTON	4869	-62
FOREST GARDENS	4868	149
MT. SHERIDAN	4868	288
WHITE ROCK	4868	44
WOREE	4868	-37
<b>Total FOR SLA</b>		<b>827</b>
<b>Western Suburbs (SLA 350052076)</b>		
BAYVIEW HEIGHTS	4868	180
KANIMBLA	4870	-78
EARLVILLE	4870	95
<b>Total FOR SLA</b>		<b>197</b>

**Appendix 5. X, Y, and Z Coordinates for Suburbs**

<b>Barron (SLA 350052062)</b>	<b>x</b>	<b>Y</b>	<b>Z</b>
HOLLOWAYS BEACH	12	24	4.24 E-03
KAMERUNGA	9	20	2.14 E-03
MACHANS BEACH	13	22	6.15 E-03
REDLYNCH	9	17	1.69 E-03
YORKEYS KNOB	11	24	2.04 E-03
BRINSMEAD	11	19	1.02 E-02
<b>Central Suburbs (SLA 350052065)</b>			
BUNGALOW	14	16	3.14 E-03
MANOORA	12	17	2.32 E-02
MANUNDA	13	18	1.84 E-02
MOOROBOOL	11	16	1.47 E-02
WESTCOURT	13	17	1.49 E-02
<b>City (SLA 350052066)</b>			
CAIRNS CITY	15	17	1.57 E-03
CAIRNS NORTH	14	18	8.43 E-03
PARRAMATTA PARK	14	17	4.77 E-03
<b>Mt Whitfield (SLA 35005268)</b>			
AEROGLEN	14	20	8.27 E-03
FRESHWATER	11	20	2.17 E-02
EDGE HILL	12	18	2.27 E-02

<b>Northern Suburbs (SLA 350052072)</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
KEWARRA BEACH	8	27	8.45 E-04
PALM COVE	8	30	5.06 E-03
TRINITY BEACH	11	27	2.06 E-03
TRINITY PARK	11	25	6.03 E-03
SMITHFIELD	9	24	5.67 E-03
<b>Trinity (SLA 350052074)</b>			
EDMONTON	13	10	2.35 E-05
FOREST GARDENS	11	13	1.86 E-02
WHITE ROCK	14	13	5.47 E-03
WOREE	13	14	2.58 E-02
<b>Western Suburbs (SLA 350052076)</b>			
BAYVIEW HEIGHTS	11	14	1.62 E-02
KANIMBLA	11	17	1.41 E-02
EARLVILLE	12	15	2.71 E-02