



Business Report: Raising Cane's Location Optimization in Grand Forks, ND

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Executive Summary

This report outlines a data-driven analysis for identifying optimal locations for a Raising Cane's restaurant in Grand Forks, ND. The analysis incorporates demographic data, proximity to key competitors (Chick-fil-A), fast food competition, foot traffic estimates, zoning feasibility, and projected revenue models.

The study examined 651 grid points across Grand Forks, integrating data sources from the Google Maps API, U.S. Census Bureau API, and proprietary algorithms. Results indicate that the highest-potential sites are located near the University of North Dakota campus and key commercial corridors such as University Avenue and Demers Avenue.

Model Overview

Methodology

The analysis was performed using a custom-built location model leveraging a Random Forest Regressor ($R^2 \approx 0.90$). Key features included:

- **Proximity to Chick-fil-A:** Number of Chick-fil-A locations within a 5-mile radius and distance to the nearest Chick-fil-A (capped at 30 miles).
- **Foot Traffic Score:** Weighted sum of nearby universities, shopping centers, stores, and restaurants.
- **Fast Food Competition:** Counts of major chains (e.g., McDonald's, KFC, Taco Bell, etc.) within a 2 km radius.
- **Demographics:** Population, median income, and median age sourced from U.S. Census Bureau data.
- **Zoning Compliance:** Simulated binary flag for regulatory feasibility.
- **Rent per Square Foot:** Standardized at \$12.50 for Grand Forks.

Revenue Model Highlights

Revenue projections are based on:

- Positive weighting for population density, median income, foot traffic, Chick-fil-A advantage (1 to 5-mile sweet spot), and younger demographics (under 30 median age).
 - Negative adjustments for high competition density and rent costs.
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Key Insights

1. Optimal Zones Identified

The model highlights clusters of high-potential locations along:

- University Avenue near the University of North Dakota
- Demers Avenue corridor
- Columbia Mall area

2. Top Predicted Location

- **Latitude:** 47.9150°N
- **Longitude:** -97.0800°W
- **Predicted Revenue:** \$492,228
- **Distance to Chick-fil-A:** 0.7 miles
- **Competition:** 13 fast food locations nearby
- **Foot Traffic Score:** High, due to proximity to university and retail hubs

3. Zoning Considerations

The model allows filtering for zoning compliance, ensuring recommended locations meet regulatory feasibility.

Sample Top-Ranked Locations

| Latitude | Longitude | Predicted Revenue | Distance to Chick-fil-A (miles) |
|----------|-----------|-------------------|---------------------------------|
| 47.9150 | -97.0800 | \$492,228 | 0.7 |
| 47.9100 | -97.0700 | \$478,000 | 1.2 |
| 47.9050 | -97.0600 | \$465,000 | 0.9 |
| 47.9000 | -97.0750 | \$450,000 | 1.9 |
| 47.9200 | -97.0850 | \$435,000 | 0.6 |

Recommended Next Steps

1. **Field Validation**

Conduct site visits to assess local context, infrastructure, and community dynamics.

2. **Competitor Analysis**

Evaluate performance and customer demographics of nearby Chick-fil-A and other competitors.

3. **Community Engagement**

Meet with university representatives, community leaders, and property owners for feasibility assessment.

4. **Financial Modeling**

Develop detailed pro forma models using the projected revenue estimates.

5. **Regulatory Review**

Confirm zoning, permitting, and compliance requirements at selected sites.

Conclusion

This analysis provides a comprehensive, data-driven framework for Raising Cane’s site selection in Grand Forks, ND. The model’s integration of market dynamics, demographics, and competitive insights offers a strategic foundation for location decision-making.

The recommended locations demonstrate strong alignment with the brand’s target demographic and market positioning, balancing proximity to Chick-fil-A with opportunities for differentiation and customer capture.

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