# Neighborhood Economic Risk Assessment

### City of Las Vegas

Q2 2016





July 15, 2016

Cheryl Ross Office of Community Services City of Las Vegas 495 S. Main St. Las Vegas, NV 89101

#### RE: City of Las Vegas | Neighborhood Economic Risk Assessment

Dear Ms. Ross:

In accordance with your request, Applied Analysis ("AA") is pleased to submit the enclosed *City of Las Vegas Neighborhood Economic Risk Assessment* for the second quarter of 2016. AA was retained by the City of Las Vegas Office of Community Services ("the City") to assist in the preparation of an index of community economic risk (the "Neighborhood Risk Index" or the "NRI"). This summary presentation report outlines the strategy, methodology and findings of our review and analysis.

This report and index was designed by AA in response to your request. However, we make no representations as to the adequacy of these procedures for all your purposes. Generally speaking, though our findings and estimates are as of the latest data available, this report is intended to develop a methodology to be followed on a continuing basis.

Our report contains economic and real estate data pertaining to the City and the Las Vegas valley as a whole. This information was collected from various third parties and assembled by AA in such a manner as to provide insight based on its aggregated form. While we have no reason to doubt its accuracy, the information collected was not subjected to any auditing or review procedures by AA and; therefore, we can offer no representations or assurances as to its completeness.

This presentation report is a summary of the analyses undertaken and the conclusion of our analyses. It is intended to provide an overview of the analyses conducted and a summary of our findings. AA will retain additional working papers relevant to this study. If you reproduce this report, it must be done so in its entirety.

We welcome the opportunity to discuss this report with you at any time. Should you have any questions, please contact Jeremy Aguero or Brian Gordon at (702) 967-3333.

Sincerely,

Applied Analysis



### Neighborhood Risk Index (NRI)

Applied Analysis was retained by the City of Las Vegas Office of Community Services to develop an index of "neighborhood risk" that would identify focus areas for the deployment of resources under the control of the City.

This is an overview of the development of the Neighborhood Risk Index (NRI). This analysis is inherently limited to the quality of the input data as provided by the listed entities and provides a general overview of how specific geographic areas (defined as zip codes) are being impacted by a variety of social and economic factors. We anticipate that these factors, and the weights they are assigned in this analysis, will evolve over time.

This analysis contains information on eight key variables researched from:

- Nevada Division of Welfare & Supportive Services (three variables)
- Nevada Department of Employment, Training & Rehabilitation (one variable)
- Clark County Recorder (one variable)
- Clark County Assessor (one variable)
- Clark County Comprehensive Planning (one variable)
- Applied Analysis (one variable)



# methodology

: a body of methods, postulates or procedures of inquiry in a particular field

DATA LEARNING PROBE NFORMATION LEARNING PROBE NFORMATION LEARNING DATA STOCK THUS DATA LEARNING PROBE PRACTICE DATA STOCK THINK SEARCH WISDOM LINK EDUCATION DETECTION PROOF LINK SCAN PROJECT FACTOR SCENCE INFORMATION DATA SEARCH WISDOM EXAMINATION EXPLORE EXAMINE SEARCH ANALYSIS LEARNING STOCK THINK IMPACT EXPERIMENT EXPERIMENT CHECK PROBE STOCK THINK LINK SEARCH ANALYSIS ASK BOOK KNOWLEDGE TEACHING SCIENCE FACTOR EXAMINATION ASK FACTOR EDUCATION ASK FACTS BOOK EXPLORE ANALYSIS INFORMATION TEACHING DETERMENT FACTOR TEACHING BOOK EXPLORE SCAN PROJECT PACTOR DATA DETECTION EDUCATION DETECTION PROOF LINK STOCK THINK EDUCATION DETECTION PROBE INFORMATION SEARCH PROBE INFORMATION KNOWLEDGE SCAN INFORMATION LEARNING DATA LEARNING DATA

EXPERIMENT CHECK PROBE LEARNING EXAMINATION EXPLORE ANALYSIS INFORMATION DATA





### Methodology of the NRI

<u>**Objective</u>**: The City of Las Vegas is seeking to use economic and social data to identify sub-regions within the City at a heightened risk for long-term instability</u>

<u>Approach</u>: Create a Neighborhood Risk Index (NRI) by: (1) identifying risk categories; (2) decomposing each category into factors, creating common sizing and weights for the factors; and (3) calculating a mathematical composition of the area's risk and size (the NRI)

<u>Concept</u>: By identifying the regions that are at the greatest and most sizable risk, the City can direct resources to areas where they can do the *greatest good for the greatest number of people* 





### **Methodology of the NRI** Identifying Instability - Categories and Factors



### **Methodology of the NRI** Identifying Instability - Categories and Factors

	Index	
Category	Factor	Timeframe
C S	TANF: Temporary Assistance for Needy Families	6 Month Rolling
\$ <b>(1)</b> \$	Medicaid	Average
Household Instability	<b>SNAP</b> : Supplemental Nutrition Assistance Program	
Employment Instability	Unemployment Insurance Claims <sup>1</sup>	6 Month Rolling Average
	Foreclosures	6 Month Rolling Total
Neighborhood Instability	Residential Vacancies	
	Commercial Vacancies	Varying Timeframes <sup>2</sup>
	Bank Owned Properties <sup>3</sup>	

<sup>1</sup> Unemployment insurance claims are a fraction of total unemployment; this variable does not represent the "unemployment rate".

<sup>2</sup> Residential vacancies are based on annual data, commercial vacancies on quarterly data and bank owned properties on a current snapshot.

<sup>3</sup> Bank owned properties are homes that are owned by financial institutions or acquired at foreclosure auction.

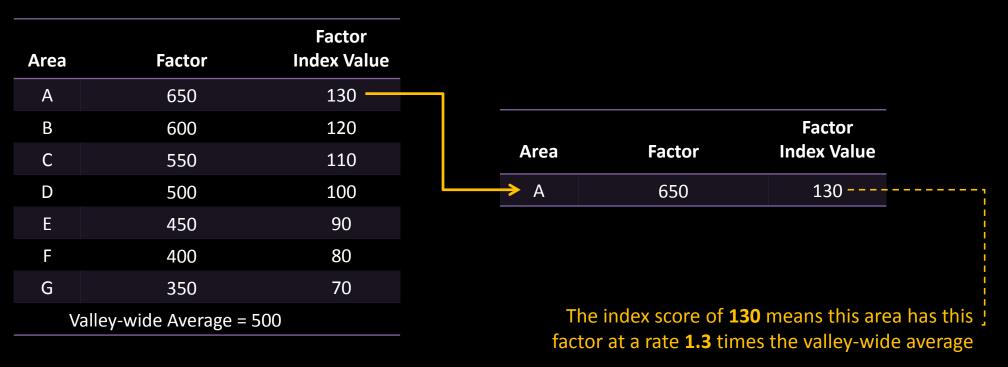




### Methodology of the NRI Common Sizing of Critical Factors

02 2016

**Common Sizing:** All factors were expressed as per 1,000 housing units (**HU**) or per 1,000 population (**POP**) where appropriate<sup>1</sup>; these measures were then expressed as a 100-base ratio of their valley- or city-wide average



<sup>1</sup>Commercial vacancy is expressed as the percentage of commercial space that is available.



### Methodology of the NRI

### Weights and Composite Risk

Not all factors are assumed to be equally important; modeling allows the City to weight factors based on their relative impact or on policy objectives

Category	Category Weight	Index Factor	Factor Weight
		TANF	8.3%
5 <b>0</b> 5	25%	Medicaid	8.3%
Household Instability		SNAP	8.3%
Employment Instability	25% Unemployment Insurance Claims		25.0%
		Foreclosures	25.0%
Neighborhood		Residential Vacancies	8.3%
	50%	Commercial Vacancies	8.3%
Instability		Bank Owned Properties	8.3%

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Initial conditions for the factor weights assumed 50% household and employment indicators and 50% real estate indicators



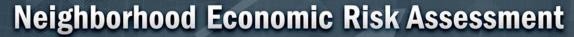
### Methodology of the NRI

### Weights and Composite Risk

02 2016

Not all factors are assumed to be equally important; modeling allows the City to weight factors based on their relative impact or on policy objectives

Category	Category Weight	Index Factor	Factor Weight
		TANF	8.3%
s O s	25%	Medicaid	8.3%
Household Instability		SNAP	8.3%
Employment Instability	25%	Unemployment Insurance Claims	25.0%
		Foreclosures	25.0%
		Residential Vacancies	8.3%
Neighborhood	50%	Commercial Vacancies	8.3%
Instability		Bank Owned Properties	8.3% —



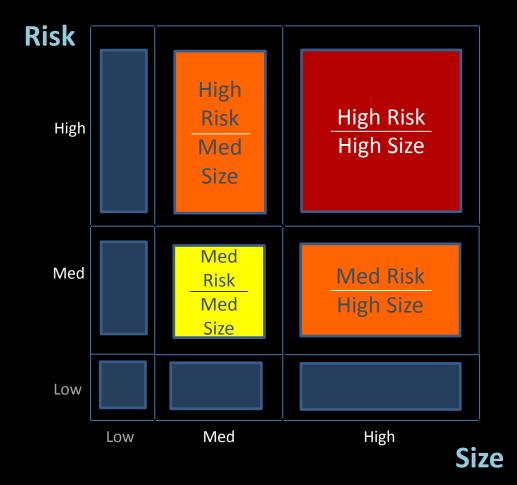
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### **Methodology of the NRI** Relativity and Composite Risk

### <u>GOAL</u>

Focus the City's efforts, making the best use of limited resources

Composite risk was weighted by the number of occupied housing units in the zip code; this way, the City can equalize risk to do the greatest good for the greatest number of people

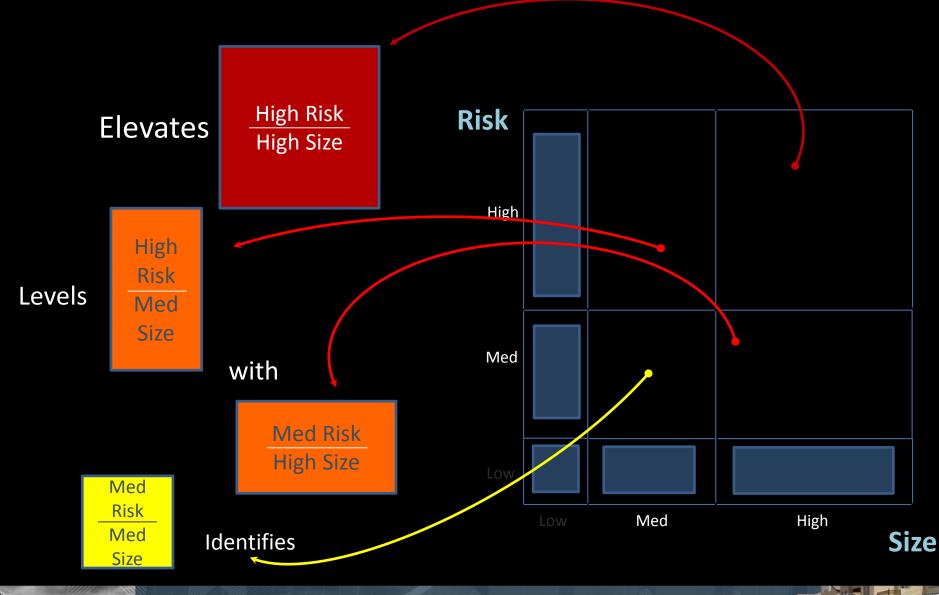


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### **Methodology of the NRI** Relativity and Composite Risk

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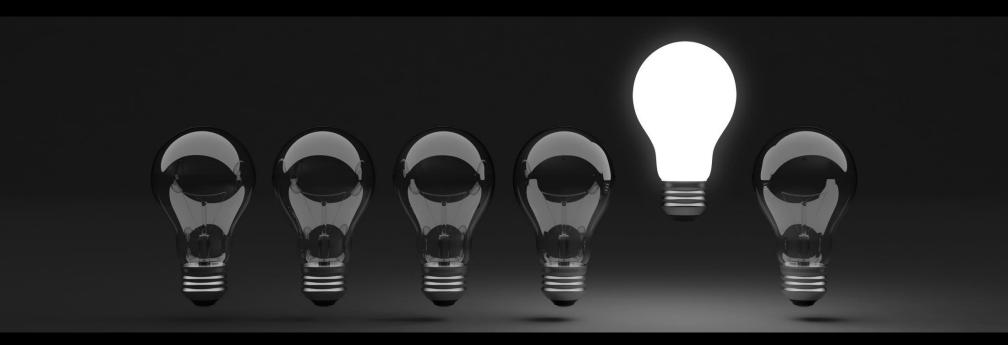
**Neighborhood Economic Risk Assessment** 

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ANALYSIS

## summary

: an abstract, abridgment or compendium especially of a preceding discourse



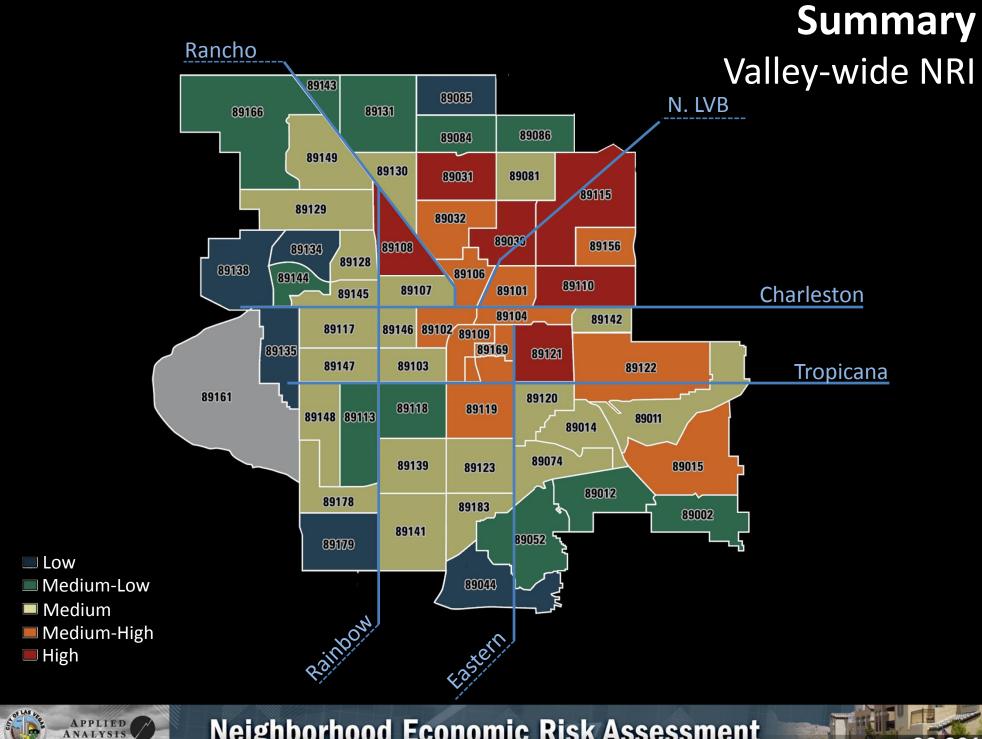




# What Areas in the Las Vegas Valley have the Highest Economic Risk?

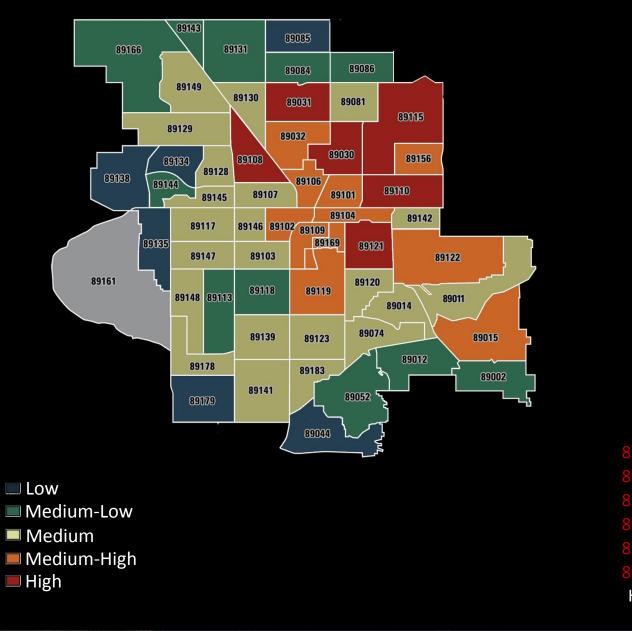








### Summary Valley-wide NRI



	High		LOW	
High	Medium-	Medium	Medium- Low	Low
9121	89169	89183	89166	89179
9115	89156	89178	89144	89138
9110	89122	89149	89143	89135
89108	89119	89148	89131	89134
9031	89109	89147	89118	89085
9030	89106	89146	89113	89044
	89104	89145	89086	
	89102	89142	89084	
	89101	89141	89052	
	89032	89139	89012	
	89015	89130	89002	
		89128 89129		
		89125 89128		
		89120 89123		
		89117 89120		
		89107		
		89103		
		89081		
		89074		
		89014		
		89011		

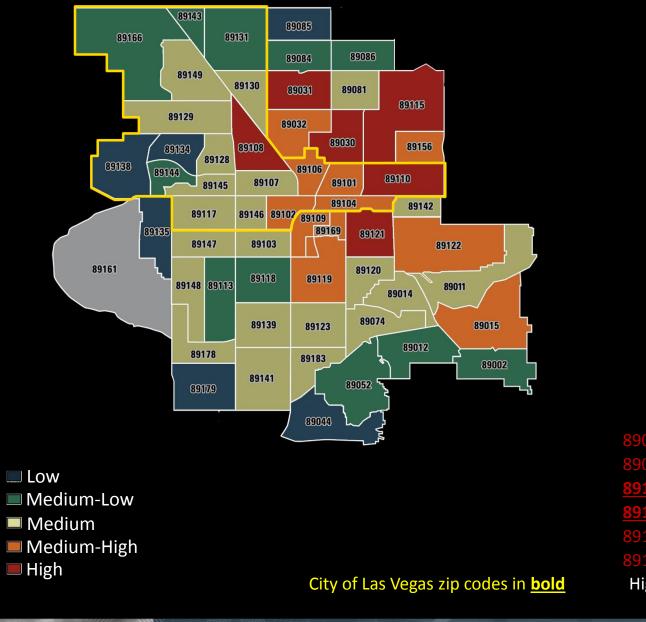
APPLIED ANALYSIS



### City of Las Vegas

### **Summary** Valley-wide NRI

89011



0	High		Low	
gh			Medium-	Low
121	89169	89183	89166	<u>89179</u>
115	89156	<u>89178</u>	89144	89138
110	89122	89149	89143	89135
108	89119	89148	89131	89134
031	<u>89109</u>	<u>89147</u>	89118	89085
030	<u>89106</u>	<u>89146</u>	89113	89044
	<u>89104</u>	<u>89145</u>	89086	
	<u>89102</u>	89142	89084	
	89101	89141	89052	
	89032	<u>89139</u>	89012	
	89015	<u>89130</u>	89002	
		<u>89120</u>		
		<b>89123</b>		
		89120 89123		
		<u>89117</u> 89120		
		<u>89107</u> <u>89117</u>		
		89103		
		89081		
		89074		
		89014		
		89011		

APPLIED ANALYSIS

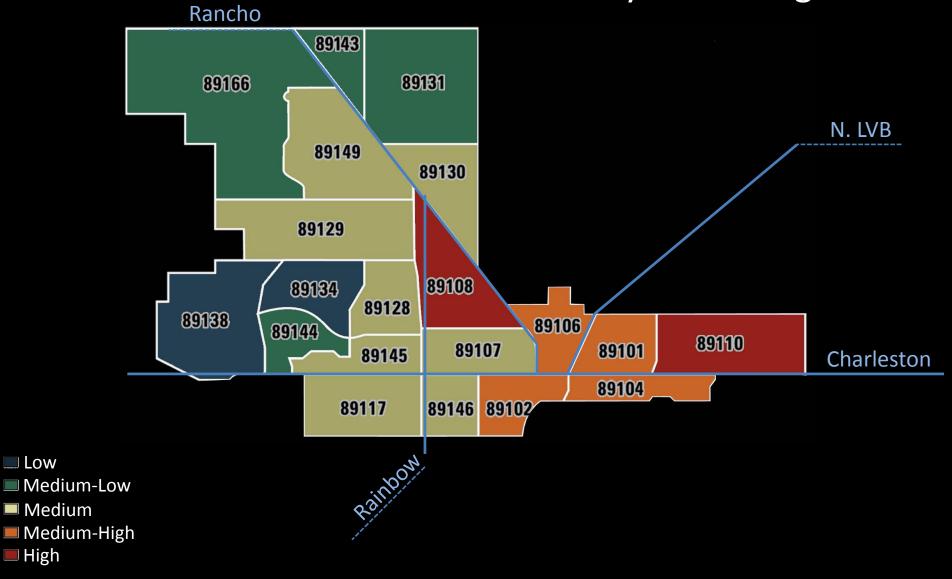


### What Areas Within the City have the Highest Economic Risk?\*

(\*) NOTE: City of Las Vegas NRI is calculated independently from the valley-wide NRI, so areas within the City can be compared to one another.





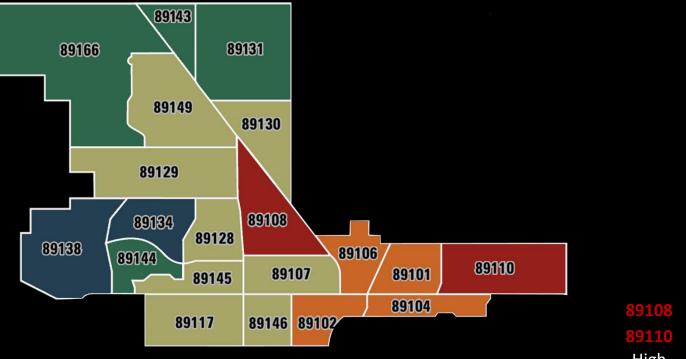


**Neighborhood Economic Risk Assessment** 

Low

APPLIED ANALYSIS





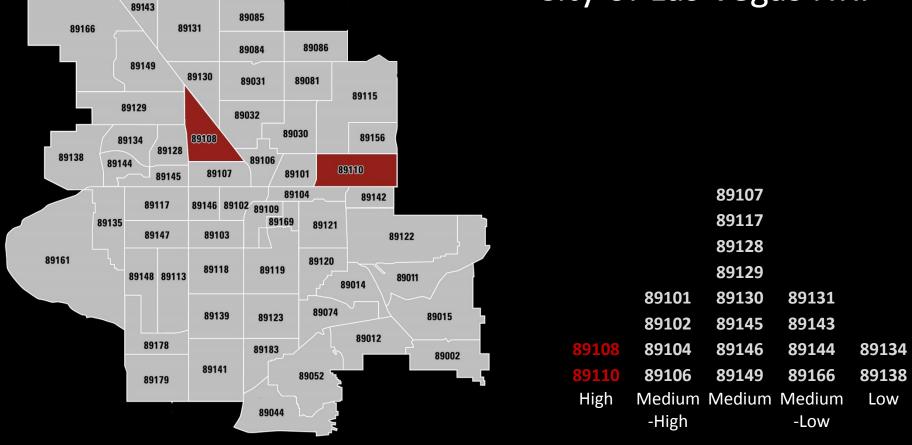
		89107		
		89117		
		89128		
		89129		
	89101	89130	89131	
	<b>89102</b>	89145	89143	
3 <b>9108</b>	89104	89146	89144	89134
391 <b>10</b>	89106	89149	89166	89138
High	Medium	Medium	Medium	Low
	-High		-Low	

# Low Medium-Low Medium Medium-High High

APPLIED ANALYSIS

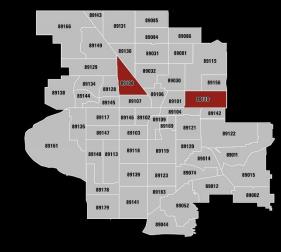
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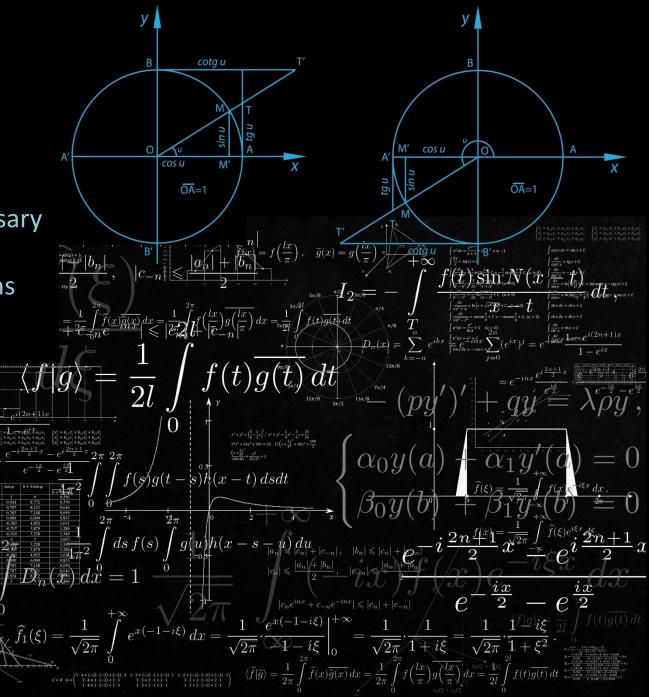
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Zip Code	89108	89110	City Average	LV Valley Average
TANF Recipients Per 1,000 Population	15.1	15.6	11.7	10.3
Medicaid Recipients Per 1,000 Population	308.1	314.5	246.0	225.7
SNAP Recipients Per 1,000 Population	222.3	226.9	176.1	160.6
Unemployment Ins. Per 1,000 Population	12.0	10.9	10.9	11.3
Foreclosures Per 1,000 Total Housing Units	3.3	4.1	2.6	2.6
Residential Vacancies Per 1,000 Total Housing Units	33.0	30.8	63.5	72.4
Commercial Vacancy	17.2%	6.7%	13.9%	15.1%
Bank Owned Homes Per 1,000 Total Housing Units	17.5	22.2	14.7	14.1



# elements

: a constituent part; necessary data values on which calculations or conclusions are based



Q2 2016



### **Elements of the NRI**



### **Employment Instability**







### Unemp. Insurance | Valley-wide Summary Data

Employment Instability

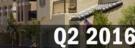
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#### **Top 10 Zip Codes**

(Zip Codes Within the City noted in **Bold**)

Zip Codes	Unemployment Insurance Claims (per 1,000 POP)	Valley-wide Mean (per 1,000 POP)	Unemployment Insurance Claims Index Value
<u>89104</u>	<u>16.4</u>	<u>11.3</u>	<u>145</u>
89121	14.2	11.3	125
89086	14.1	11.3	125
89183	14.0	11.3	124
89120	13.8	11.3	122
89179	13.8	11.3	122
89169	13.4	11.3	119
89032	13.3	11.3	118
89156	13.3	11.3	117
89113	13.2	11.3	117

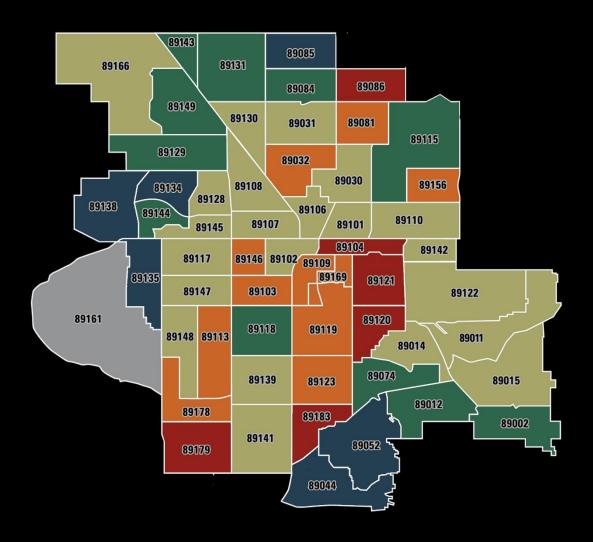




### **Elements of the NRI** Unemp. Insurance | Valley-wide Distribution Map

Employment Instability

The rate of unemployment insurance claims per 1,000 residents continued to drop. The rate fell to 11.3 from 11.5 last quarter (down 2.1 percent).





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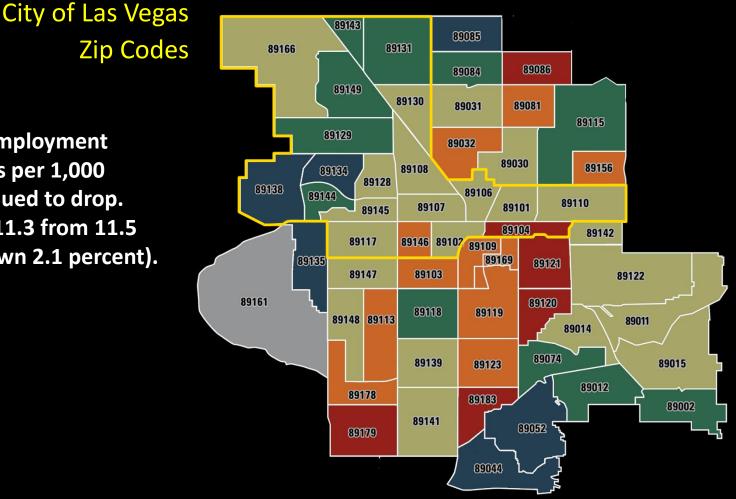


### **Elements of the NRI**

Unemp. Insurance | Valley-wide Distribution Map

**Employment** Instability

The rate of unemployment insurance claims per 1,000 residents continued to drop. The rate fell to 11.3 from 11.5 last quarter (down 2.1 percent).





APPLIED





### **Elements of the NRI** Unemp. Insurance | CLV Summary Data

**Top 5 Zip Codes** 

In the City of Las Vegas

Zip Codes	Unemployment Insurance Claims (per 1,000 POP)	<b>CLV Mean</b> (per 1,000 POP)	Unemployment Insurance Claims Index Value
89104	16.4	10.9	150
89146	12.9	10.9	118
89108	12.0	10.9	110
89107	11.8	10.9	108
89128	11.7	10.9	107

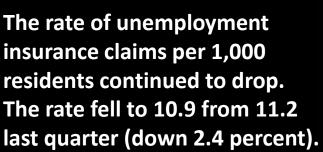
Mean unemployment insurance claims per 1,000 residents:

Valley-wide	11.3
City of Las Vegas	10.9





### **Elements of the NRI** Unemp. Insurance | CLV Distribution Map



Employment Instability

Low

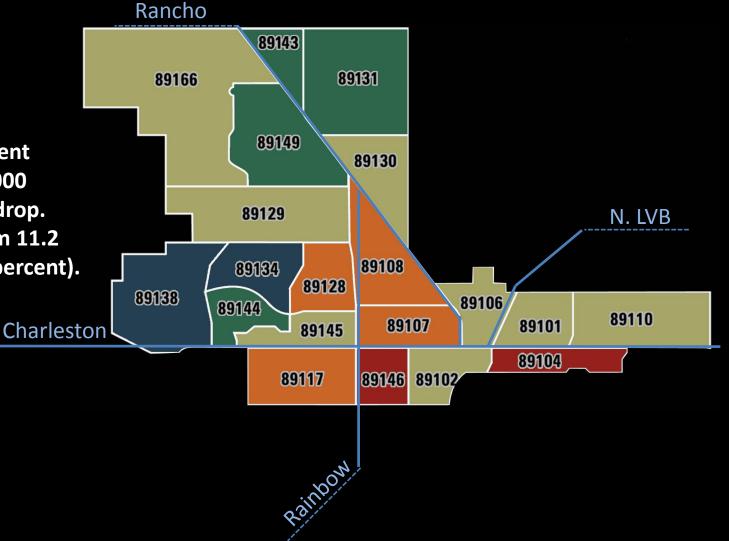
🔲 High

Medium-Low

Medium-High

APPLIED

Medium





### **Elements of the NRI**

# 

### **Neighborhood Instability**







### **Elements of the NRI** Foreclosures | Valley-wide Summary Data

### **Top 10 Zip Codes**

(Zip Codes Within the City noted in **Bold**)

Zip Codes	<b>Foreclosures</b> (per 1,000 HU)	Valley-wide Mean (per 1,000 HU)	Foreclosures Index Value
89156	4.5	2.6	176
<u>89130</u>	<u>4.2</u>	<u>2.6</u>	<u>165</u>
<u>89110</u>	<u>4.1</u>	<u>2.6</u>	<u>159</u>
89179	4.0	2.6	158
89142	4.0	2.6	156
<u>89143</u>	<u>4.0</u>	<u>2.6</u>	<u>155</u>
89120	3.9	2.6	155
89032	3.9	2.6	154
89086	3.8	2.6	149
89015	3.8	2.6	149





### **Elements of the NRI**

Foreclosures | Valley-wide Distribution Map



The rate of foreclosures per 1,000 housing units continued to decline. The rate fell to 2.6 from 2.7 last quarter (down 5.4 percent). 89146 89102 89109 89148 89113 



APPLIED



### **Elements of the NRI**

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### Foreclosures | Valley-wide Distribution Map

Neighborhood City of Las Vegas Instability **Zip Codes** The rate of foreclosures per 1,000 housing units continued to decline. The rate fell to 2.6 from 2.7 last quarter (down 5.4 percent). 89146 89102 89148 89113 Low Medium-Low Medium Medium-High

🔲 High

APPLIED

\*



### **Elements of the NRI** Foreclosures | CLV Summary Data

Q2 2016

**Top 5 Zip Codes** 

In the City of Las Vegas

Zip Codes	Foreclosures (per 1,000 HU)	CLV Mean (per 1,000 HU)	Foreclosures Index Value
89130	4.2	2.6	163
89110	4.1	2.6	157
89143	4.0	2.6	153
89138	3.4	2.6	130
89108	3.3	2.6	128

Mean foreclosures per 1,000 housing units:

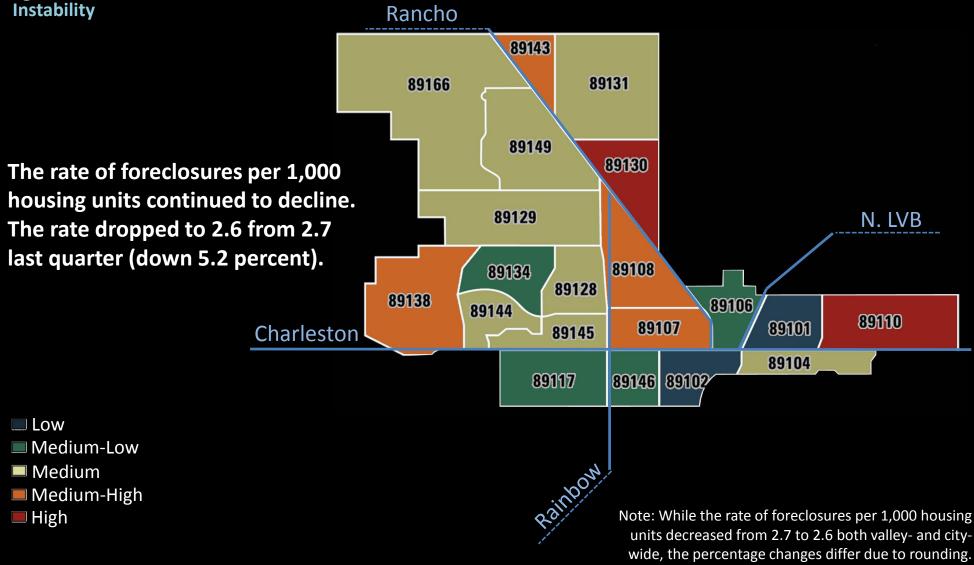
City of Las Vegas	2.6
Valley-wide	2.6





APPLIED

### **Elements of the NRI** Foreclosures | CLV Distribution Map







### **Elements of the NRI**

Residential Vacancy | Valley-wide Summary Data

### **Top 10 Zip Codes**

(Zip Codes Within the City noted in **Bold**)

Zip Codes	<b>Residential Vacancies</b> (per 1,000 HU)	Valley-wide Mean (per 1,000 HU)	Residential Vacancies Index Value
89109	686.0	72.4	948
89086	206.6	72.4	285
<u>89106</u>	<u>186.9</u>	<u>72.4</u>	<u>258</u>
89179	170.1	72.4	235
<u>89101</u>	<u>161.1</u>	<u>72.4</u>	<u>223</u>
89169	156.9	72.4	217
<u>89166</u>	<u>146.8</u>	<u>72.4</u>	<u>203</u>
89011	129.8	72.4	179
<u>89102</u>	<u>124.9</u>	<u>72.4</u>	<u>173</u>
89178	124.1	72.4	171



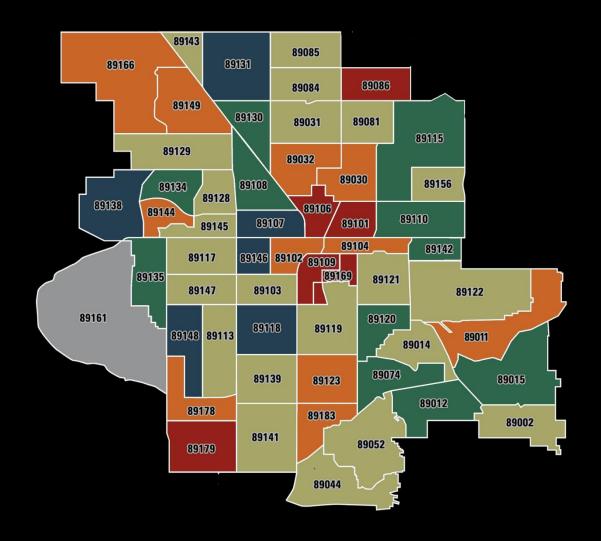


Residential Vacancy | Valley-wide Distribution Map

Neighborhood Instability

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Residential vacancies per 1,000 housing units remained unchanged at 72.4 due to annual data.





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Residential Vacancy | Valley-wide Distribution Map

Neighborhood **City of Las Vegas** Instability **Zip Codes Residential vacancies** per 1,000 housing units remained unchanged at 72.4 due to annual data. 89146 89102 89109 89148 89113 Low Medium-Low Medium Medium-High

💻 High

APPLIED

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#### **Elements of the NRI** Residential Vacancy | CLV Summary Data

Q2 2016

Top 5 Zip Codes

In the City of Las Vegas

Zip Codes	<b>Residential</b> <b>Vacancies</b> (per 1,000 HU)	<b>CLV Mean</b> (per 1,000 HU)	Residential Vacancies Index Value
89106	186.9	63.5	294
89101	161.1	63.5	254
89166	146.8	63.5	231
89102	124.9	63.5	197
89104	100.8	63.5	159

Mean residential vacancies per 1,000 housing units:

Valley-wide	72.4
City of Las Vegas	63.5



## **Elements of the NRI** Residential Vacancy | CLV Distribution Map

Similarly, within the City, the rate of residential vacancies per 1,000 housing units remained unchanged at 63.5 due to annual data.

\*

Neighborhood Instability

Low

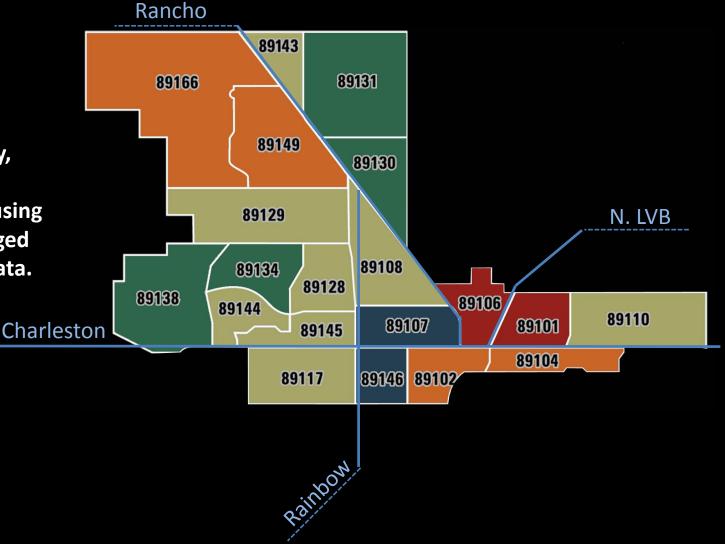
🔲 High

Medium-Low

Medium-High

APPLIED

Medium







#### Commercial Vacancy | Valley-wide Summary Data

#### Top 10 Zip Codes

(Zip Codes Within the City noted in Bold)

Zip Codes	Commercial Vacancy Rate	Valley-wide Mean	Commercial Vacancy Rate Index Value
89115	40.6%	15.1%	269
89011	33.2%	15.1%	220
89109	25.3%	15.1%	168
89118	22.4%	15.1%	148
89169	21.0%	15.1%	139
89119	19.7%	15.1%	130
89113	19.4%	15.1%	129
89012	19.3%	15.1%	128
89103	19.1%	15.1%	127
<u>89102</u>	<u>19.1%</u>	<u>15.1%</u>	<u>127</u>





Commercial Vacancy | Valley-wide Distribution Map

89146 89102 89109

89148 89113

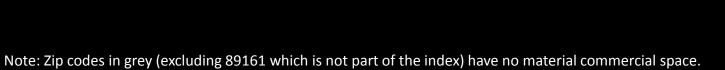
Neighborhood Instability

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Valley-wide commercial vacancy continued to drop. The vacancy rate fell to 15.1 percent from 15.6 percent last quarter (down 0.5 percentage point). 89115 had the highest vacancy rate (40.6 percent), pushing 89011 to the secondhighest spot (33.2 percent). The higher vacancy rate in 89115 was due to the closing of a Wal-Mart, which added 206,300 SF of vacant inventory back to the market.



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Commercial Vacancy | Valley-wide Distribution Map

89146 89102 89109

89148 89113

Neighborhood Instability

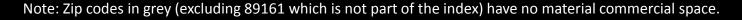
City of Las Vegas

**Zip Codes** 

Valley-wide commercial vacancy continued to drop. The vacancy rate fell to 15.1 percent from 15.6 percent last quarter (down 0.5 percentage point). 89115 had the highest vacancy rate (40.6 percent), pushing 89011 to the secondhighest spot (33.2 percent). The higher vacancy rate in 89115 was due to the closing of a Wal-Mart, which added 206,300 SF of vacant inventory back to the market.



APPLIED





#### **Elements of the NRI** Commercial Vacancy | CLV Summary Data

#### **Top 5 Zip Codes** In the City of Las Vegas

Zip Codes	Commercial Vacancy Rate	CLV Mean	Commercial Vacancy Rate Index Value
89102	19.1%	13.9%	137
89143	19.0%	13.9%	136
89129	18.1%	13.9%	130
89108	17.2%	13.9%	123
89128	16.7%	13.9%	120

#### Mean commercial vacancy rate:

Valley-wide	15.1%
City of Las Vegas	13.9%

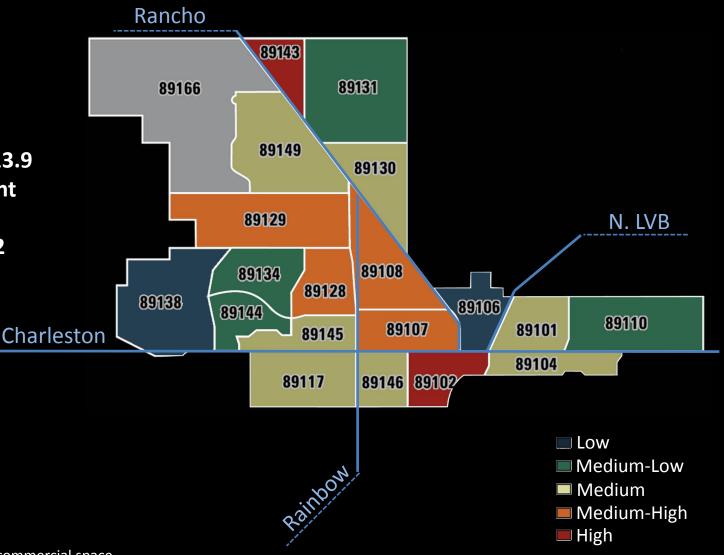






## **Elements of the NRI** Commercial Vacancy | CLV Distribution Map

City-wide commercial vacancy continued to decline. The rate fell to 13.9 percent from 14.7 percent last quarter (down 0.8 percentage point). 89102 had the highest vacancy rate at 19.1 percent.



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Note: Zip codes in grey have no material commercial space.

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ANALYSIS



#### Bank Owned Homes | Valley-wide Summary Data

#### **Top 10 Zip Codes**

(Zip Codes Within the City noted in **Bold**)

Zip Codes	Bank Owned Homes (per 1,000 HU)	Valley-wide Mean (per 1,000 HU)	Bank Owned Homes Index Value
<u>89143</u>	<u>25.6</u>	<u>14.1</u>	<u>182</u>
89156	24.3	14.1	173
89142	24.2	14.1	172
89031	23.8	14.1	169
89030	22.2	14.1	158
<u>89110</u>	<u>22.2</u>	<u>14.1</u>	<u>158</u>
89141	21.7	14.1	155
89032	21.3	14.1	152
<u>89107</u>	<u>19.7</u>	<u>14.1</u>	<u>140</u>
89081	19.4	14.1	138

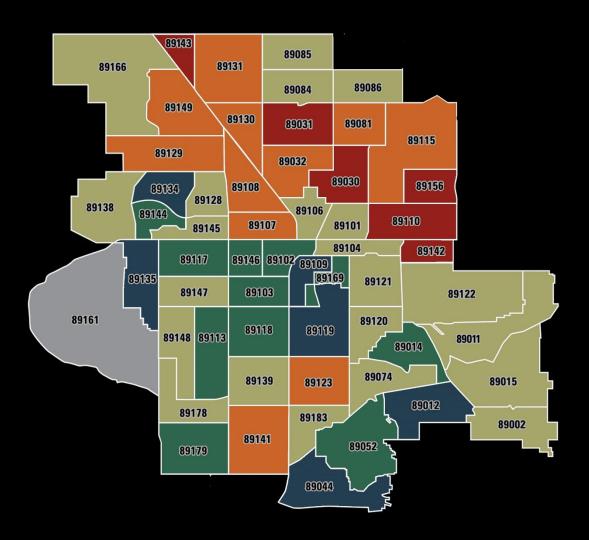




Bank Owned Homes | Valley-wide Distribution Map

Neighborhood Instability

> The rate of bank owned homes per 1,000 housing units continued to drop. The rate fell to 14.1 from 14.3 last <u>quarter</u> (down 1.4 percent).



Low
Medium-Low
Medium
Medium-High
High

APPLIED



Bank Owned Homes | Valley-wide Distribution Map

Neighborhood City of Las Vegas Instability **Zip Codes** The rate of bank owned homes per 1,000 housing units continued to drop. The rate fell to 14.1 from 14.3 last 89146 89107 89109 quarter (down 1.4 percent). 89148 89113 Low Medium-Low Medium

Medium-High

APPLIED

🔲 High





## **Elements of the NRI** Bank Owned Homes | CLV Summary Data

#### **Top 5 Zip Codes**

In the City of Las Vegas

Zip Codes	Bank Owned Homes (per 1,000 HU)	<b>CLV Mean</b> (per 1,000 HU)	Bank Owned Homes Index Value
89143	25.6	14.7	174
89110	22.2	14.7	151
89107	19.7	14.7	134
89130	18.3	14.7	124
89131	18.2	14.7	124

Mean bank owned homes per 1,000 housing units:

City of Las Vegas 14.7 Valley-wide 14.1





## **Elements of the NRI** Bank Owned Homes | CLV Distribution Map

The rate of bank owned homes per 1,000 housing units continued to decline. The rate dropped to 14.7 from 14.8 last quarter (down 0.8 percent).

\*

Neighborhood Instability

Low

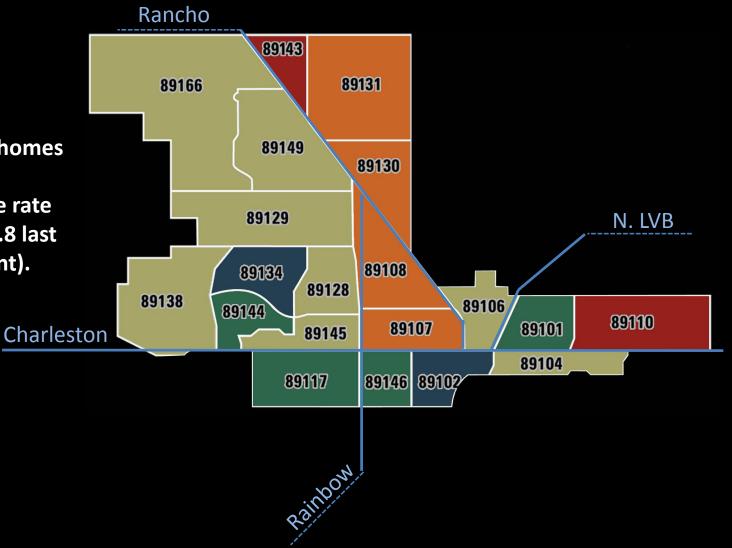
🔲 High

Medium-Low

Medium-High

APPLIED

Medium



02 2016

## **Household Instability**



S

**Neighborhood Economic Risk Assessment** 

5





#### **Elements of the NRI** TANF | Valley-wide Summary Data

#### **Top 10 Zip Codes**

(Zip Codes Within the City noted in **Bold**)

Zip Codes	<b>TANF Recipients</b> (per 1,000 POP)	Valley-wide Mean (per 1,000 POP)	TANF Recipients Index Value
<u>89106</u>	<u>33.8</u>	<u>10.3</u>	<u>328</u>
89030	33.1	10.3	322
<u>89101</u>	<u>28.8</u>	<u>10.3</u>	<u>280</u>
89115	24.7	10.3	240
89169	23.7	10.3	230
<u>89102</u>	<u>21.8</u>	<u>10.3</u>	<u>212</u>
<u>89104</u>	<u>21.8</u>	<u>10.3</u>	<u>211</u>
89156	15.9	10.3	154
89119	15.8	10.3	153
<u>89110</u>	<u>15.6</u>	<u>10.3</u>	<u>151</u>

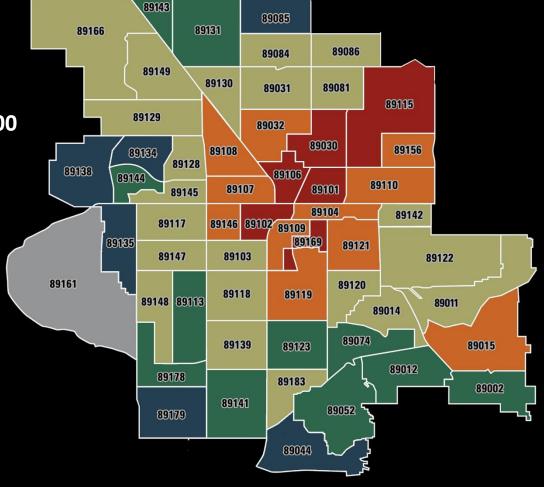






#### **Elements of the NRI** TANF | Valley-wide Distribution Map

The rate of TANF recipients per 1,000 residents continued to decline. The rate dropped to 10.3 from 10.6 last quarter (down 3.2 percent).



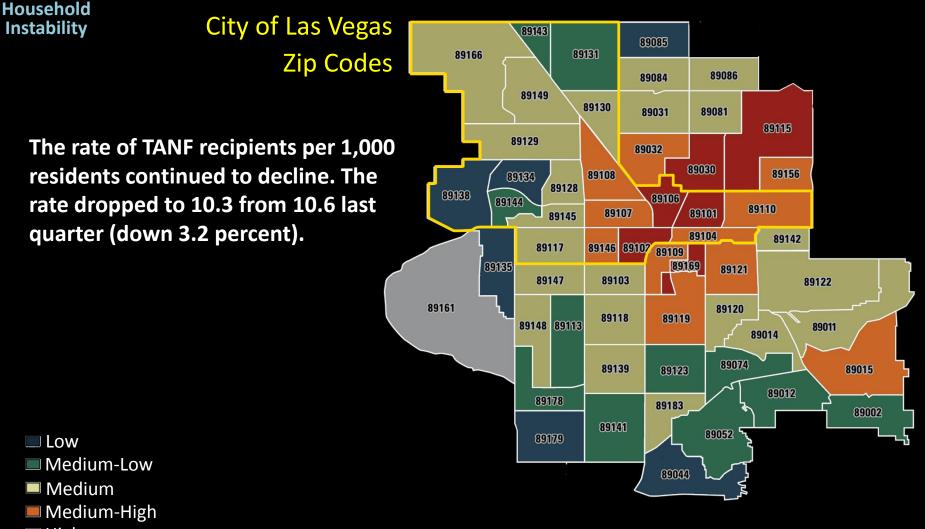
Low
Medium-Low
Medium
Medium-High
High

APPLIED

ANALYSIS



#### **Elements of the NRI** TANF | Valley-wide Distribution Map



🔲 High

APPLIED

ANALYSIS





## **Elements of the NRI** TANF | CLV Summary Data

**Top 5 Zip Codes** 

In the City of Las Vegas

Zip Codes	<b>TANF Recipients</b> (per 1,000 POP)	<b>CLV Mean</b> (per 1,000 POP)	TANF Recipients Index Value
89106	33.8	11.7	289
89101	28.8	11.7	246
89102	21.8	11.7	187
89104	21.8	11.7	186
89110	15.6	11.7	133

Mean TANF recipients per 1,000 residents:

City of Las Vegas	11.7
Valley-wide	10.3

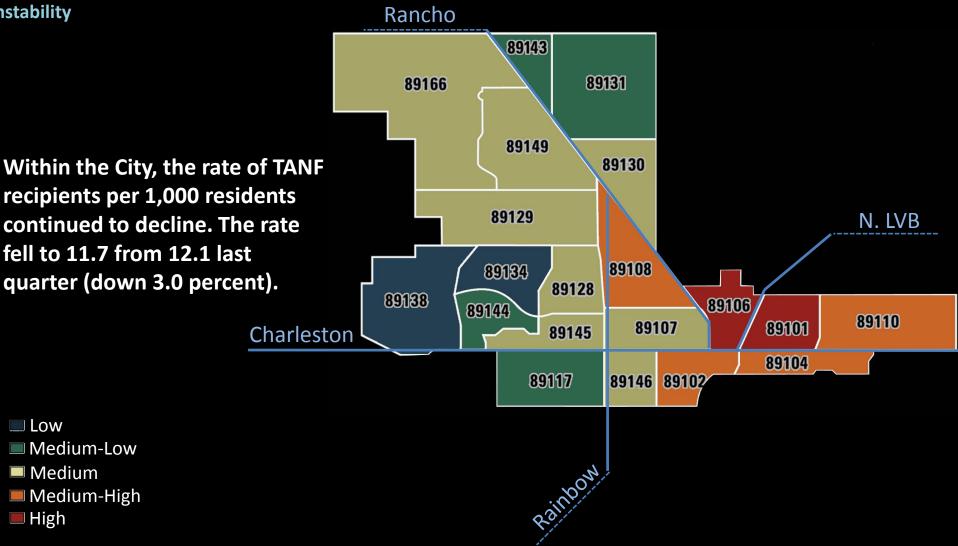






APPLIED ANALYSIS

## **Elements of the NRI** TANF | CLV Distribution Map







#### **Elements of the NRI** SNAP | Valley-wide Summary Data

#### **Top 10 Zip Codes**

(Zip Codes Within the City noted in **Bold**)

Zip Codes	<b>SNAP Recipients</b> (per 1,000 POP)	Valley-wide Mean (per 1,000 POP)	SNAP Recipients Index Value
<u>89106</u>	<u>430.7</u>	<u>160.6</u>	<u>268</u>
<u>89101</u>	<u>401.9</u>	<u>160.6</u>	<u>250</u>
89030	363.6	160.6	226
<u>89104</u>	<u>323.4</u>	<u>160.6</u>	<u>201</u>
89169	302.2	160.6	188
89115	292.4	160.6	182
<u>89102</u>	<u>285.0</u>	<u>160.6</u>	<u>177</u>
89119	253.5	160.6	158
89109	251.4	160.6	157
89121	239.9	160.6	149

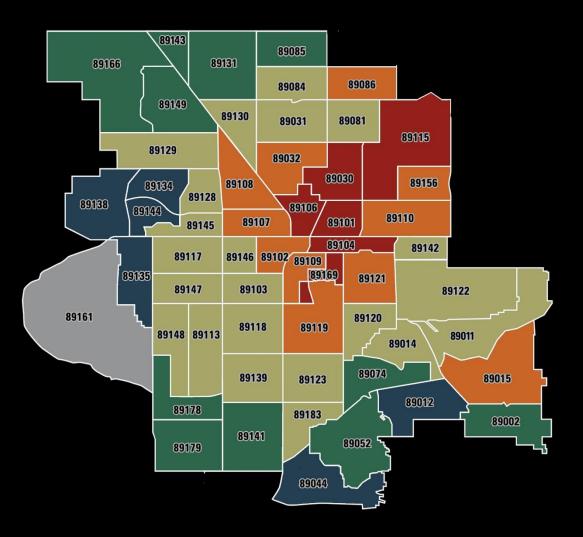






#### **Elements of the NRI** SNAP | Valley-wide Distribution Map

The rate of SNAP recipients per 1,000 residents continued to increase. The rate rose to 160.6 from 159.3 last quarter (up 0.8 percent).



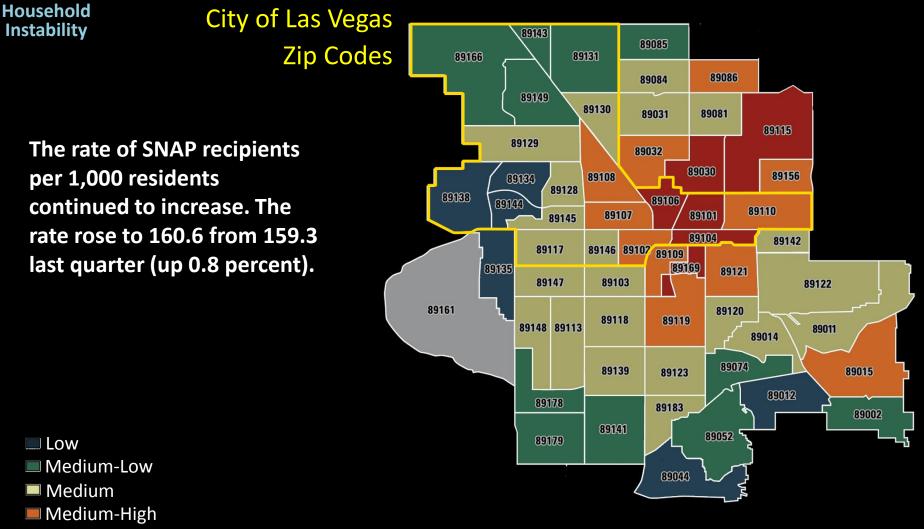
Low
Medium-Low
Medium
Medium-High
High

APPLIED

ANALYSIS



#### **Elements of the NRI** SNAP | Valley-wide Distribution Map



💻 High

APPLIED ANALYSIS





#### **Elements of the NRI** SNAP | CLV Summary Data

Top 5 Zip Codes

In the City of Las Vegas

Zip Codes	SNAP Recipients (per 1,000 POP)	<b>CLV Mean</b> (per 1,000 POP)	SNAP Recipients Index Value
89106	430.7	176.1	245
89101	401.9	176.1	228
89104	323.4	176.1	184
89102	285.0	176.1	162
89107	227.4	176.1	129

Mean SNAP recipients per 1,000 residents:

City of Las vegas	T/0.T
Valley-wide	160.6







Low

🔲 High

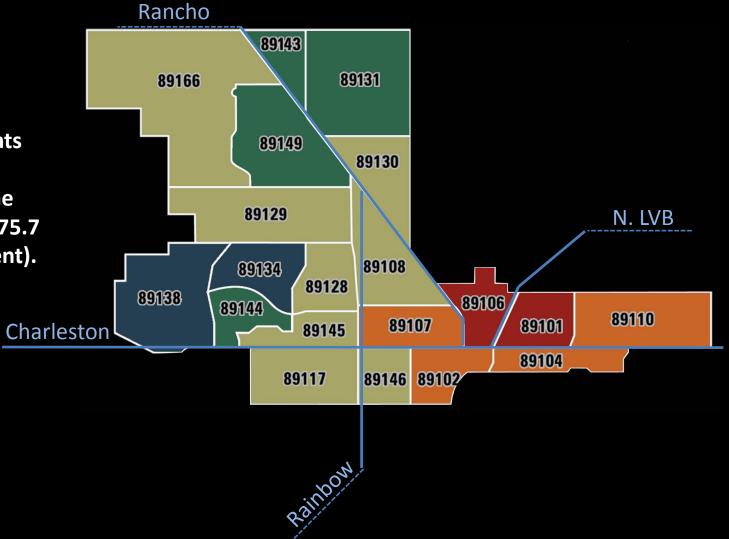
Medium-Low

Medium-High

APPLIED

Medium

#### **Elements of the NRI** SNAP | CLV Distribution Map



The rate of SNAP recipients per 1,000 residents continued to increase. The rate rose to 176.1 from 175.7 last quarter (up 0.2 percent).





#### **Elements of the NRI** Medicaid | Valley-wide Summary Data

#### Top 10 Zip Codes

(Zip Codes Within the City noted in **Bold**)

Zip Codes	Medicaid Recipients (per 1,000 POP)	Valley-wide Mean (per 1,000 POP)	Medicaid Recipients Index Value
<u>89106</u>	<u>534.0</u>	<u>225.7</u>	<u>237</u>
<u>89101</u>	<u>497.0</u>	<u>225.7</u>	<u>220</u>
89030	479.9	225.7	213
<u>89104</u>	<u>423.2</u>	<u>225.7</u>	<u>188</u>
89115	374.4	225.7	166
<u>89102</u>	<u>365.0</u>	<u>225.7</u>	<u>162</u>
89169	357.5	225.7	158
89109	340.3	225.7	151
<u>89107</u>	<u>322.9</u>	<u>225.7</u>	<u>143</u>
89156	318.6	225.7	141

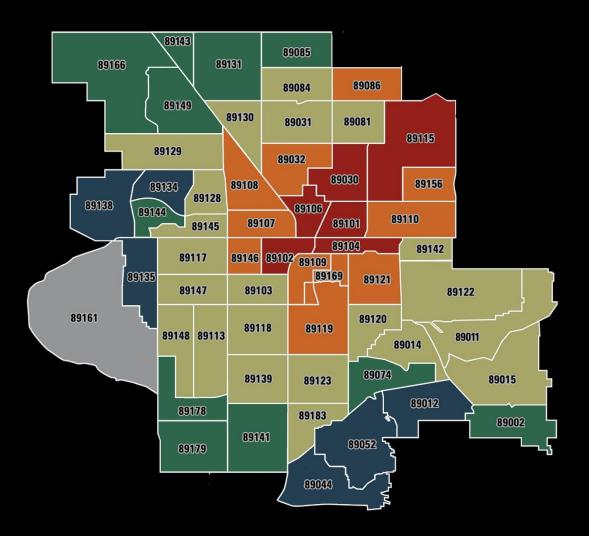






## **Elements of the NRI** Medicaid | Valley-wide Distribution Map

The rate of Medicaid recipients per 1,000 residents continued to increase. The rate rose to 225.7 from 219.7 last quarter (up 2.7 percent).

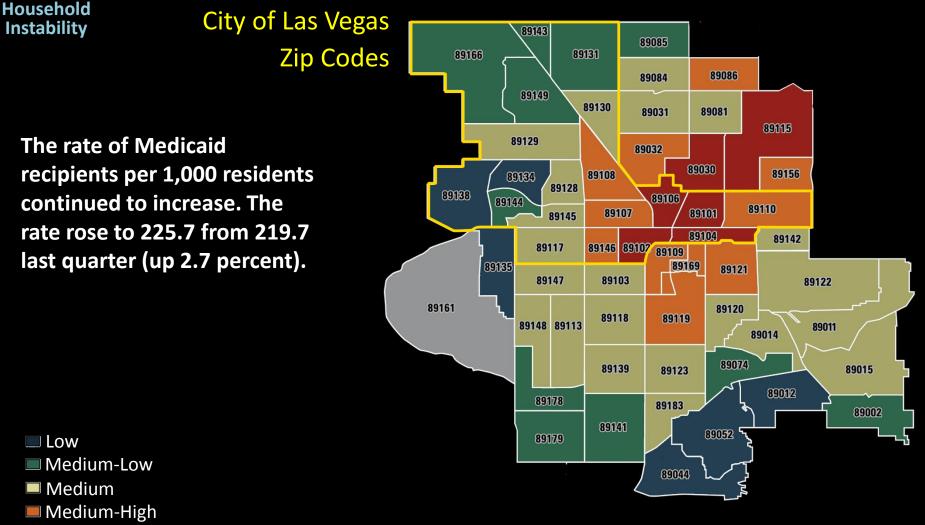


Low
Medium-Low
Medium
Medium-High
High

APPLIED

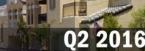


#### Medicaid | Valley-wide Distribution Map



💻 High

APPLIED ANALYSIS





## **Elements of the NRI** Medicaid | CLV Summary Data

Q2 2016

Top 5 Zip Codes

In the City of Las Vegas

Zip Codes	Medicaid Recipients (per 1,000 POP)	<b>CLV Mean</b> (per 1,000 POP)	Medicaid Recipients Index Value
89106	534.0	246.0	217
89101	497.0	246.0	202
89104	423.2	246.0	172
89102	365.0	246.0	148
89107	322.9	246.0	131

Mean Medicaid recipients per 1,000 residents:

City of Las Vegas246.0Valley-wide225.7





Low

🔲 High

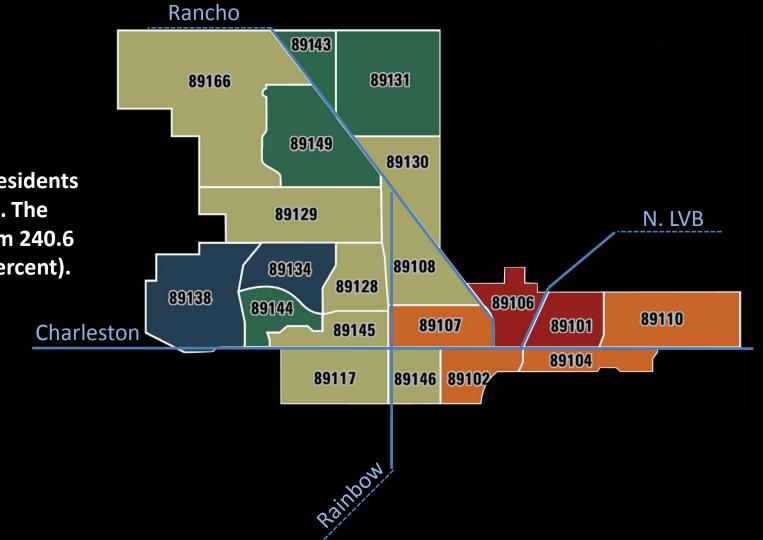
Medium-Low

Medium-High

APPLIED

Medium

## **Elements of the NRI** Medicaid | CLV Distribution Map



The rate of Medicaid recipients per 1,000 residents continued to increase. The rate rose to 246.0 from 240.6 last quarter (up 2.3 percent).

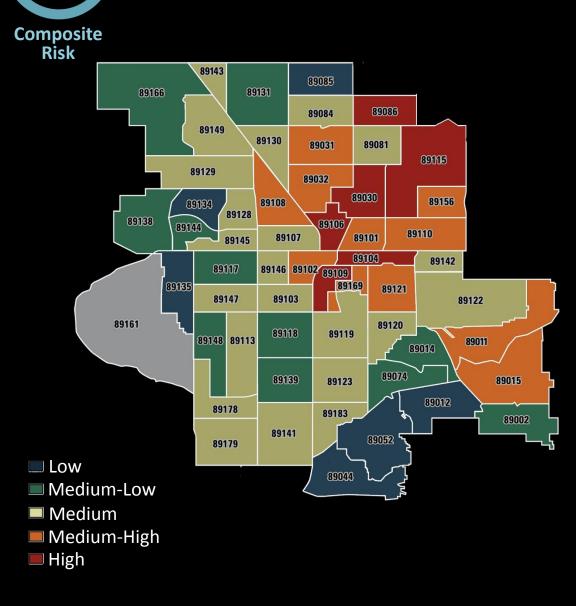


# Composite Risk





#### **Elements of the NRI** Composite Risk | Valley-wide Distribution Map



	High		Low		
High	Medium-	Medium	Medium-	Low	
39115	89169	89183	89166	89135	
39109	89156	89179	89148	89134	
39106	89121	89178	89144	89085	
89104	89110	89149	89139	89052	
39086	89108	89147	89138	89044	
89030	89102	89146	89131	89012	
	89101	89145	89118		
	89032	89143	89117		
	89031	89142	89074		
	89015	89141	89014		
	89011	89130	89002		
		89129			
		89128			
		89123			
		89122			
		89120			
		89119			
		89113			
		89103 89107			
		89103			
		89084			

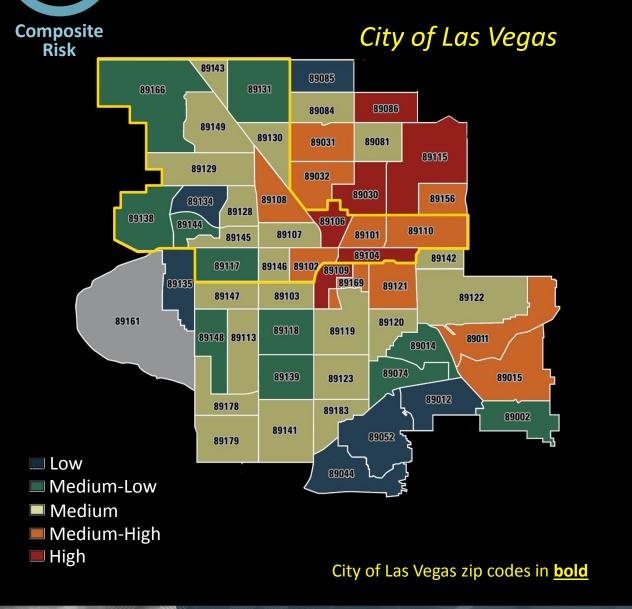
Q2 2016

89081

APPLIED ANALYSIS

89081

#### Composite Risk | Valley-wide Distribution Map



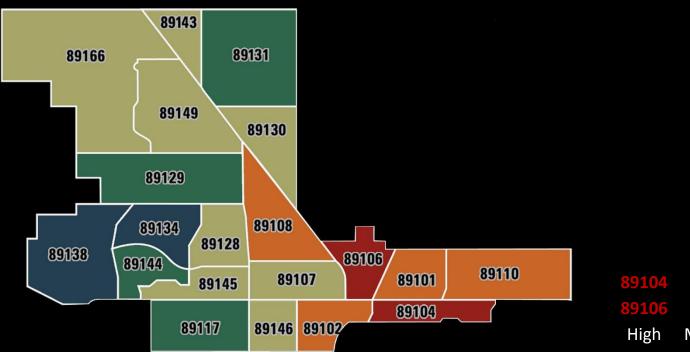
		-			
-0	High		Low		
High	Medium-	Medium		Low	
89115	89169	89183	<u>89166</u>	89135	
39109	89156	89179	89148	<u>89134</u>	
<b>9106</b>	89121	89178	<u>89144</u>	89085	
<u> 9104</u>	<u>89110</u>	<u>89149</u>	89139	89052	
39086	<u>89108</u>	89147	89138	89044	
89030	89102	89146	89131	89012	
	89101	89145	89118		
	89032	<u>89143</u>	89117		
	89031	89142	89074		
	89015	89141	89014		
	89011	89130	89002		
		<u>89129</u>			
		<u>89128</u>			
		89122			
		89120			
		89119			
		89119			
		<u>89113</u>			
		<b>89103</b>			
		89103			
		89084			

Q2 2016



#### **Elements of the NRI** Composite Risk | CLV Distribution Map





		89107		
		89128		
		89130		
		89143		
	89101	89145	89117	
	<b>89102</b>	89146	89129	
91 <b>04</b>	89108	89149	89131	89134
91 <b>0</b> 6	89110	89166	89144	89138
ligh	Medium	Medium	Medium	Low
	-High		-Low	

- Low
- Medium-Low
- Medium
- Medium-High

APPLIED

ANALYSIS

🔳 High



# How does the Composite Risk Index differ from the Neighborhood Risk Index?





## **Review of the NRI Methodology**

- 1) A relative level of risk was assigned to each zip code for all risk factors (as shown in the elements of the NRI series).
- Risk factors are combined to create a Composite Risk Index. The Composite Risk Index assigns a weight to each risk factor.
- 3) To create the Neighborhood Risk Index, the Composite Risk Index is weighted by occupied housing units. Zip codes with the highest risk and highest number of occupied housing units can be found and targeted.





Risk factors are assigned a weight of the total 100 percent distribution. TANF recipients, for example, are assigned a weight of 8.3 percent.







The Composite Risk Index is weighted by occupied housing units to find and target zip codes with the highest risk and highest number of occupied housing units, creating the NRI.







This implies that two zip codes with equally high composite risk may be ranked differently based on their number of occupied housing units.





## NRI | Valley-wide Summary Data

Zip codes with high Composite Risk may not always have equally high Neighborhood Risk once occupied housing units are factored in.

#### **Top 10 Zip Codes**

(Zip Codes Within the City noted in **Bold**)

			Neighborhood Risk
Zip Codes	Occupied Housing Units	<b>Composite Risk</b> (Factor Weighted Average)	Index (NRI)
89115	19,493	140.1	100
<u>89108</u>	<u>27,449</u>	<u>117.9</u>	<u>92</u>
89030	13,638	141.6	89
<u>89110</u>	<u>22,487</u>	<u>120.2</u>	<u>88</u>
89031	21,613	120.4	87
89121	24,777	114.6	86
<u>89104</u>	<u>12,466</u>	<u>138.9</u>	<u>85</u>
89032	14,547	131.9	84
<u>89101</u>	<u>14,548</u>	<u>129.6</u>	<u>83</u>
<u>89106</u>	<u>8,989</u>	<u>148.8</u>	<u>81</u>





#### NRI | CLV Summary Data

02 2016

Zip codes with high Composite Risk may not always have equally high Neighborhood Risk once occupied housing units are factored in.

#### **Top 5 Zip Codes** In the City of Las Vegas

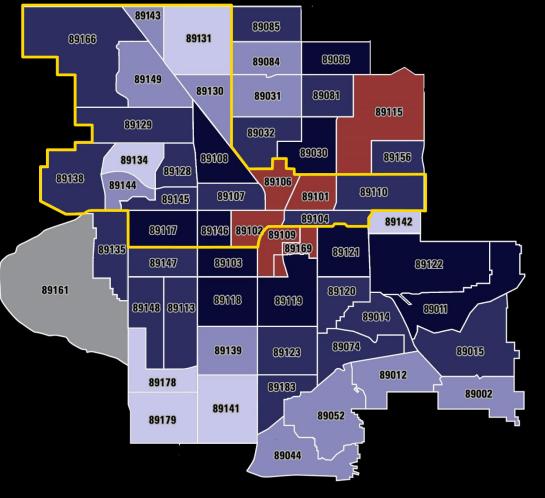
Zip Codes	Occupied Housing Units	<b>Composite Risk</b> (Factor Weighted Average)	Neighborhood Risk Index (NRI)
89108	27,449	116.0	100
89110	22,487	117.3	93
89104	12,466	137.0	90
89101	14,548	127.1	86
89106	8,989	145.6	84



# **Additional Considerations**







#### Alternative Measures of Risk Food Insecurity

Food insecurity remained unchanged due to annual data.

ightarrow Increasing Severity ightarrow

Note: Data is unchanged from last quarter due to annual data.





# Neighborhood Economic Risk Assessment

## City of Las Vegas

Q2 2016



