Definitions

**Cases** — persons diagnosed with HIV and reported to public health

**Rates** — cases per 100,000 populations

**Sex** — Sex of infant determined at birth

**Transmission Category** — most likely to be the cause of becoming infected

**MSM** — Men who have Sex with Men

**IDU** — Injection Drug Users

**Local Health District** — 29 Counties make 12 LHDs

**Foreign-born** — currently living in Utah but born outside of United States
HIV INFECTION

Human Immunodeficiency Virus (HIV) infections pertains to individuals newly diagnosed with HIV regardless of their disease stage such as AIDS.

New HIV infections are people who have never been diagnosed with HIV and who also lived in Utah at the time of their diagnosis.
Cases & Rates of HIV Infection, Utah, 2004-2013

Cases & Rates

Rate per 100,000

Number of Cases


Cases

Rates

5.4 5.0 5.0 4.5 4.9 4.7 3.2 3.5 4.1 3.6

0 50 100 150 200 250


129 123 126 117 130 127 88 99 116 105


Cases & Rates of HIV Infection, Utah, 2004-2013
Number of HIV Infections by Local Health District, Utah, 2013
HIV Infection Rates per 100,000 by Local Health District, Utah, 2013

<table>
<thead>
<tr>
<th>Local Health District</th>
<th>Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bear River</td>
<td>3</td>
</tr>
<tr>
<td>Central</td>
<td>0</td>
</tr>
<tr>
<td>Davis</td>
<td>5</td>
</tr>
<tr>
<td>Salt Lake Valley</td>
<td>73</td>
</tr>
<tr>
<td>Southeastern</td>
<td>2</td>
</tr>
<tr>
<td>Southwest</td>
<td>2</td>
</tr>
<tr>
<td>Summit</td>
<td>1</td>
</tr>
<tr>
<td>Tooele</td>
<td>1</td>
</tr>
<tr>
<td>Tri-County</td>
<td>3</td>
</tr>
<tr>
<td>Utah</td>
<td>7</td>
</tr>
<tr>
<td>Wasatch</td>
<td>0</td>
</tr>
<tr>
<td>Weber/Morgan</td>
<td>8</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>105</strong></td>
</tr>
</tbody>
</table>

HIV Infection Rates per 100,000 by Local Health District, Utah, 2013
HIV Infection Rates by Local Health District, Utah, 2013
Number of HIV Infections along the Wasatch Front by Local Health District, Utah, 2009 - 2013

<table>
<thead>
<tr>
<th>Year of Diagnosis</th>
<th>Davis</th>
<th>Salt Lake</th>
<th>Utah</th>
<th>Weber-Morgan</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>13</td>
<td>92</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>2010</td>
<td>11</td>
<td>58</td>
<td>8</td>
<td>1</td>
</tr>
<tr>
<td>2011</td>
<td>2</td>
<td>79</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>2012</td>
<td>10</td>
<td>65</td>
<td>4</td>
<td>17</td>
</tr>
<tr>
<td>2013</td>
<td>5</td>
<td>73</td>
<td>7</td>
<td>8</td>
</tr>
</tbody>
</table>

Legend:
- Blue: Davis
- Orange: Salt Lake
- Green: Utah
- Red: Weber-Morgan
Geographic Summary

- 70% of new infections are in Salt Lake County
- Other jurisdictions have elevated rates due to low population but still small case counts
- Case counts have remained stable over the last 5 years with a few exceptions
Number of HIV Infections by Sex, Utah, 2004-2013

Number of Cases

<table>
<thead>
<tr>
<th>Year</th>
<th>Males</th>
<th>Females</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
<td>115</td>
<td>14</td>
</tr>
<tr>
<td>2005</td>
<td>104</td>
<td>19</td>
</tr>
<tr>
<td>2006</td>
<td>107</td>
<td>19</td>
</tr>
<tr>
<td>2007</td>
<td>94</td>
<td>23</td>
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<tr>
<td>2008</td>
<td>113</td>
<td>17</td>
</tr>
<tr>
<td>2009</td>
<td>110</td>
<td>17</td>
</tr>
<tr>
<td>2010</td>
<td>74</td>
<td>14</td>
</tr>
<tr>
<td>2011</td>
<td>83</td>
<td>16</td>
</tr>
<tr>
<td>2012</td>
<td>96</td>
<td>20</td>
</tr>
<tr>
<td>2013</td>
<td>91</td>
<td>14</td>
</tr>
</tbody>
</table>
Number of HIV Infections by Sex & Age Group, Utah, 2013

<table>
<thead>
<tr>
<th>Age Groups</th>
<th>Male</th>
<th>Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 to 14</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>15-19</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>20-24</td>
<td>12</td>
<td>0</td>
</tr>
<tr>
<td>25-29</td>
<td>20</td>
<td>0</td>
</tr>
<tr>
<td>30-34</td>
<td>19</td>
<td>0</td>
</tr>
<tr>
<td>35-39</td>
<td>11</td>
<td>0</td>
</tr>
<tr>
<td>40-44</td>
<td>5</td>
<td>0</td>
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<tr>
<td>45-49</td>
<td>3</td>
<td>0</td>
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<tr>
<td>50-54</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>55-59</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>60-64</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>65+</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>
HIV Infections by Sex Summary

• New infections among men have declined but remained stable among women

• Young men in their 20s & 30s continue to account for the majority of new infections
  – Women are slightly older
Percentage of HIV Infection by Transmission Category, Utah, 2009 - 2013

- MSM
- No Identified Risk
- MSM/IDU
- Hetero Contact
- IDU
HIV Infection in Males by MSM Status, Utah, 2009-2013

Percent of Cases

Year of Diagnosis

2009 2010 2011 2012 2013

Unknown No Yes
Percentage of HIV Infection by Transmission Category and Sex, Utah, 2013

**Males**
- No Risk Identified: 19%
- Heterosexual Contact: 1%
- MSM / IDU: 15%
- Injection Drug Use (IDU): 2%
- Male-to-Male Sexual Contact (MSM): 63%

**No. = 91**

**Females**
- No Risk Identified: 43%
- Injection Drug Use (IDU): 21%
- Heterosexual Contact: 36%

**No. = 14**
HIV Infections by Transmission Category

Summary

• Risk trends have remained somewhat stable over the last 5 years except:
  – Unidentified Risk slightly increased
  – Hetero & MSM/IDU increased

• Male risk continues to be mostly MSM
• Female risk primarily Hetero & IDU
• Unidentified Risk continues to increase
Percentage of HIV Infection by Race/Ethnicity and Sex, Utah, 2013

**Males**
No. = 91

- White, non-Hispanic: 69%
- Hispanic*: 20%
- Black, non-Hispanic: 7%
- Asian: 2%
- Multi-Race/Other: 2%

**Females**
No. = 14

- White, non-Hispanic: 36%
- Hispanic*: 7%
- Black, non-Hispanic: 43%
- Asian: 7%
- Multi-Race/Other: 7%

*Hispanic ethnicity regardless of Race

Note: No person diagnosed with HIV in 2013 were among Pacific Islanders or American Indians / Alaskan Natives

• In 2013,
  – 41.9% of new infections were among those who were Foreign-born
  – 38.5% of Males were foreign-born
  – 64.3% of Females were foreign-born
    o Furthermore,
      ✷ 100% white females were US-born
      ✷ 100% non-white females were Foreign-born
Percent of Foreign-born Females Diagnosed with HIV, Utah, 2009 - 2013

- Hispanic: 29%
- Black: 49%
- Asian: 11%
- White: 7%
- Multi-Race: 4%
New Infections Summary

• Majority of new infections are in Salt Lake

• **Males** are primarily **White, MSM, and younger**
  – MSM/IDU and Hispanics are also highly affected

• **Females** are primarily **Black, older, and report Heterosexual risks**
  – Clear distinction between Race & Foreign-born

• **Foreign-born** is higher among females but accounts for more than expected of total number
AIDS AT DIAGNOSIS

Acquired Immunodeficiency Syndrome (AIDS) is a progressed stage of HIV infection (eg. Stage 3).

Persons infected with HIV who progress to AIDS prior to diagnosis are considered to have a prolonged infection without testing. People unaware of their infection will unknowingly continue to spread the virus and develop poor health.
AIDS Diagnosis Rates & Percentage, Utah, 2004-2013

<table>
<thead>
<tr>
<th>Year</th>
<th>% AIDS at Diagnosis</th>
<th>AIDS Rate at Diagnosis</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
<td>31%</td>
<td>1.7</td>
</tr>
<tr>
<td>2005</td>
<td>32%</td>
<td>1.6</td>
</tr>
<tr>
<td>2006</td>
<td>30%</td>
<td>1.5</td>
</tr>
<tr>
<td>2007</td>
<td>31%</td>
<td>1.4</td>
</tr>
<tr>
<td>2008</td>
<td>26%</td>
<td>1.3</td>
</tr>
<tr>
<td>2009</td>
<td>27%</td>
<td>1.2</td>
</tr>
<tr>
<td>2010</td>
<td>31%</td>
<td>1.0</td>
</tr>
<tr>
<td>2011</td>
<td>33%</td>
<td>1.2</td>
</tr>
<tr>
<td>2012</td>
<td>35%</td>
<td>1.4</td>
</tr>
<tr>
<td>2013</td>
<td>27%</td>
<td>1.0</td>
</tr>
</tbody>
</table>
Number of HIV (not AIDS) & AIDS Cases, Utah, 2004 - 2013
Clinical Stage at Time of Diagnosis by Local Health District, Utah, 2013

- Salt Lake County accounted for no difference between % of AIDS (68%) and HIV (70%)

- Within the Wasatch Front, Salt Lake County had the lowest proportion of AIDS at diagnosis (26%)

- Southeastern Health District only had two cases of HIV but both were AIDS at diagnosis
Percentage of AIDS Cases at Time of Diagnosis by Local Health Jurisdiction, Utah, 2013

- Bear River: 0% HIV, 0% AIDS
- Central: 0% HIV, 0% AIDS
- Davis: 40% HIV, 26% AIDS
- Salt Lake Valley: 0% HIV, 0% AIDS
- Southeastern: 100% AIDS
- Southwest: 0% HIV, 0% AIDS
- Summit: 0% HIV, 0% AIDS
- Tooele: 0% HIV, 0% AIDS
- Tri-County: 0% HIV, 0% AIDS
- Utah: 0% HIV, 0% AIDS
- Wasatch: 29% HIV, 0% AIDS
- Weber/Morgan: 0% HIV, 38% AIDS
AIDS at Diagnosis by Sex & Age Group, Utah, 2013

- New AIDS diagnoses ranged from 20 – 60 years old for both males and females
- 43% of males with AIDS at their HIV diagnosis were between 25 – 34 years old
- Females with AIDS at their HIV diagnosis were even among the age groups
- Only 23% of males were AIDS at their HIV diagnosis compared to 50% of females
Percentage of New HIV Diagnoses with AIDS at Diagnosis by Race/Ethnicity, Utah, 2013

- **White, non-Hispanic**: 21% (14 AIDS cases)
- **Black, non-Hispanic**: 33% (4 AIDS cases)
- **Hispanic**: 37% (7 AIDS cases)
- **Asian**: 67% (2 AIDS cases)
- **Pacific Islander**: 0%
- **American Indian/Alaskan Native**: 0%
- **Multi-Race**: 33% (1 AIDS case)
- **Unknown**: 0%
Percent of AIDS at Diagnosis by Race/Ethnicity, Utah, 2009 - 2013

- **Hispanic†**: 40.3% (50 AIDS / 124 Cases)
- **Asian**: 31.3% (5 AIDS / 11 Cases)
- **White, non-Hispanic**: 27.1% (87 AIDS / 321 Cases)
- **Black, non-Hispanic**: 25.0% (11 AIDS / 44 Cases)
- **Multiple§**: 25.0% (4 AIDS / 16 Cases)
AIDS at Diagnosis Summary

- AIDS rate at diagnosis has steadily decreased over last 10 years
- Percentage of AIDS at diagnosis has remained somewhat stable
- Majority of males with an AIDS diagnosis were younger
- Racial & Ethnic minorities have higher percentage of AIDS at diagnosis but the number of cases is very small
PEOPLE LIVING WITH HIV/AIDS

People living with HIV/AIDS (PLWHA) in Utah are considered to have a current address in Utah and are last known to be alive.

PLWHA may or may not have been previously diagnosed in Utah, however they may have moved into or out of the state.
Cases & Rates of People Living with HIV Infection (including AIDS), Utah, 2004-2013

Cases:
- 2004: 1,832
- 2005: 1,956
- 2006: 2,084
- 2007: 2,191
- 2008: 2,326
- 2009: 2,452
- 2010: 2,543
- 2011: 2,643
- 2012: 2,765
- 2013: 2,872

Rates:
- 2004: 76.3
- 2005: 79.6
- 2006: 82.5
- 2007: 84.3
- 2008: 87.3
- 2009: 90.0
- 2010: 91.7
- 2011: 93.9
- 2012: 96.9
- 2013: 99.0

Graph showing the increase in both cases and rates from 2004 to 2013.
Percentage of People Living with HIV (not AIDS) & AIDS, Utah 2004 - 2013

- 2004: 63% HIV, 37% AIDS
- 2005: 62% HIV, 38% AIDS
- 2006: 60% HIV, 40% AIDS
- 2007: 59% HIV, 41% AIDS
- 2008: 57% HIV, 43% AIDS
- 2009: 56% HIV, 44% AIDS
- 2010: 55% HIV, 45% AIDS
- 2011: 54% HIV, 46% AIDS
- 2012: 53% HIV, 47% AIDS
- 2013: 52% HIV, 48% AIDS
Number of People Living with HIV Infection by Local Health District, Utah, 2013

- Bear River: 70
- Central: 29
- Davis Co.: 191
- Salt Lake Valley: 2,020
- Southeastern: 21
- Southwest: 102
- Summit: 24
- Tooele: 29
- Tri-County: 23
- Utah: 182
- Wasatch: 15
- Weber/Morgan: 159
Number of People Living with HIV (not AIDS) & AIDS by Local Health District, Utah, 2013

- Bear River: 38 HIV, 32 AIDS
- Central: 8 HIV, 21 AIDS
- Davis Co.: 87 HIV, 104 AIDS
- Salt Lake Valley: 967 HIV, 1,053 AIDS
- Southeastern: 5 HIV, 16 AIDS
- Southwest: 51 HIV, 51 AIDS
- Summit: 9 HIV, 15 AIDS
- Tooele: 13 HIV, 16 AIDS
- Tri-County: 15 HIV, 8 AIDS
- Utah: 91 HIV, 91 AIDS
- Wasatch: 7 HIV, 8 AIDS
- Weber/Morgan: 73 HIV, 86 AIDS
Rates of People Living with HIV (not AIDS) & AIDS by Local Health District, Utah, 2013

- Rates per 100,000

<table>
<thead>
<tr>
<th>District</th>
<th>HIV (not AIDS)</th>
<th>AIDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bear River</td>
<td>22</td>
<td>19</td>
</tr>
<tr>
<td>Central</td>
<td>28</td>
<td>10</td>
</tr>
<tr>
<td>Davis Co.</td>
<td>27</td>
<td>27</td>
</tr>
<tr>
<td>Salt Lake Valley</td>
<td></td>
<td>90</td>
</tr>
<tr>
<td>Southeastern</td>
<td>29</td>
<td>9</td>
</tr>
<tr>
<td>Southwest</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td>Summit</td>
<td>23</td>
<td>39</td>
</tr>
<tr>
<td>Tooele</td>
<td>21</td>
<td>26</td>
</tr>
<tr>
<td>Tri-County</td>
<td>26</td>
<td>14</td>
</tr>
<tr>
<td>Utah</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>Wasatch</td>
<td>26</td>
<td>30</td>
</tr>
<tr>
<td>Weber/Morgan</td>
<td>29</td>
<td>35</td>
</tr>
</tbody>
</table>
People Living with HIV

• 70.3% of the HIV-positive population resides in Salt Lake County

• Each jurisdiction has no significant difference between people living with HIV (not AIDS) to those with an AIDS diagnosis

• Southwest & Bear River districts have been increasing and have the highest number of HIV cases outside the Wasatch Front
**Number of People Living with HIV Infection by Sex & Age Group, Utah, 2013**

Number of Cases

- **Male**
- **Female**

<table>
<thead>
<tr>
<th>Age Group (Yrs)</th>
<th>Number of People Living with HIV Infection</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 9</td>
<td>4, 2</td>
</tr>
<tr>
<td>10 to 14</td>
<td>5, 5</td>
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<tr>
<td>15 to 19</td>
<td>4, 3</td>
</tr>
<tr>
<td>20 to 24</td>
<td>32, 6</td>
</tr>
<tr>
<td>25 to 29</td>
<td>106, 17</td>
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<td>30 to 34</td>
<td>191, 45</td>
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<td>35 to 39</td>
<td>214, 63</td>
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<td>40 to 44</td>
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<td>45 to 49</td>
<td>436, 66</td>
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<td>50 to 54</td>
<td>483, 63</td>
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<td>55 to 59</td>
<td>317, 44</td>
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<tr>
<td>60 to 64</td>
<td>205, 26</td>
</tr>
<tr>
<td>65+</td>
<td>131, 18</td>
</tr>
</tbody>
</table>

Number of Cases

- **Male**
- **Female**
Utah Population by Race/Ethnicity, 2013

- White, non-Hispanic: 79.7%
- Black, non-Hispanic: 2.2%
- Hispanic: 13.4%
- Asian: 1.8%
- Pacific Islander: 0.9%
- Amer. Ind./Alask. N.: 1.0%
- Multi/Other: 1.0%
Males Living with HIV in Utah by Race/Ethnicity, 2013

- White, non-Hispanic: 71%
- Black, non-Hispanic: 7%
- Hispanic: 18%
- Amer. Ind./Alask. N.: 1%
- Amer. Ind./Alask. N.: 0%
- Pacific Islander: 0%
- Multi/Other: 1%
- Unknown R/E: 1%
- Asian: 0%
Females Living with HIV in Utah by Race/Ethnicity, 2013

- White, non-Hispanic: 50%
- Black, non-Hispanic: 25%
- Hispanic: 20%
- Asian: 3%
- Pacific Islander: 1%
- Amer. Ind./Alask. N.: 1%
- Multi/Other: 0%
- Unknown R/E: 1%
Percentage of People Living with HIV Infection by Transmission Category and Sex, Utah, 2013

Males
- MSM/IDU: 16%
- IDU: 8%
- MSM: 64%
- Heterosexual: 3%
- Other/Unk*: 9%

Females
- IDU: 24%
- Heterosexual: 48%
- Other/Unk*: 28%
People Living with HIV Summary

• In 2015, people living with HIV (not AIDS) might account for the majority

• While the majority of the PLWHA are among older age groups, the newly diagnosed infections are younger

• Females living with HIV infections (including AIDS) are most diverse with 50% being Racial & Ethnic minorities
  – Females continue to report heterosexual risk followed by IDU

• Males living HIV infections (including AIDS) are mostly White and MSM
  – Hispanic & Black males are disproportionately affected by HIV