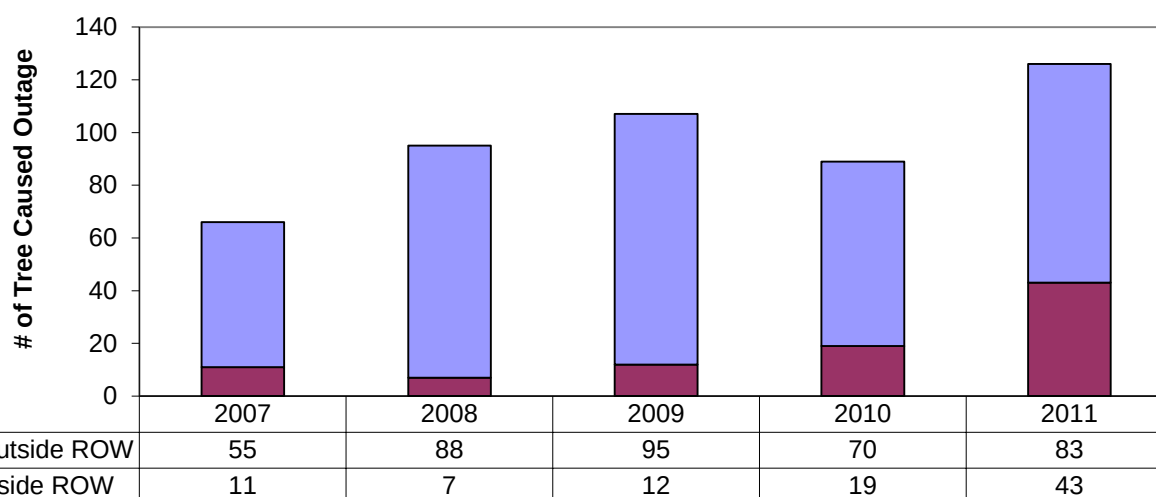


## BHP 2007 to 2011 - Tree Caused Outage in Relation to ROW

| Inside ROW            |  |        | Outside ROW |                       |  | Total   |     |                       |  |         |      |
|-----------------------|--|--------|-------------|-----------------------|--|---------|-----|-----------------------|--|---------|------|
| Tree Caused Outages:  |  | 92     | 19%         | Tree Caused Outages:  |  | 390     | 81% | Tree Caused Outages:  |  | 482     | 100% |
| Secondary             |  | 37     | 40%         | Secondary             |  | 78      | 20% | Secondary             |  | 115     | 24%  |
| Primary               |  | 55     | 60%         | Primary               |  | 307     | 79% | Primary               |  | 362     | 75%  |
| 4.16/2.4 kV           |  | 3      |             | 4.16/2.4 kV           |  | 3       |     | 4.16/2.4 kV           |  | 3       |      |
| 12.47/7.2 kV          |  | 43     |             | 12.47/7.2 kV          |  | 193     |     | 12.47/7.2 kV          |  | 193     |      |
| 13.2/7.6 kV           |  | -      |             | 13.2/7.6 kV           |  | -       |     | 13.2/7.6 kV           |  | -       |      |
| 24.9/14.4 kV          |  | 9      |             | 24.9/14.4 kV          |  | 111     |     | 24.9/14.4 kV          |  | 120     |      |
| Transmission          |  | 0      | 0%          | Transmission          |  | 5       | 1%  | Transmission          |  | 5       | 1%   |
| 47kV                  |  |        |             | 47kV                  |  | 2       |     | 47kV                  |  | 2       |      |
| 69kV                  |  |        |             | 69kV                  |  | 3       |     | 69kV                  |  | 3       |      |
| 230kV                 |  |        |             | 230kV                 |  |         |     | 230kV                 |  | 0       |      |
| Customer Interrupted: |  | 3399   | 11%         | Customer Interrupted: |  | 28562   | 89% | Customer Interrupted: |  | 31961   | 100% |
| Secondary             |  | 122    | 4%          | Secondary             |  | 330     | 1%  | Secondary             |  | 452     | 1%   |
| Primary               |  | 3277   | 96%         | Primary               |  | 26732   | 94% | Primary               |  | 30009   | 94%  |
| 4.16/2.4 kV           |  | 18     |             | 4.16/2.4 kV           |  | 23      |     | 4.16/2.4 kV           |  | 41      |      |
| 12.47/7.2 kV          |  | 3127   |             | 12.47/7.2 kV          |  | 17270   |     | 12.47/7.2 kV          |  | 20397   |      |
| 13.2/7.6 kV           |  | -      |             | 13.2/7.6 kV           |  | -       |     | 13.2/7.6 kV           |  | -       |      |
| 24.9/14.4 kV          |  | 132    |             | 24.9/14.4 kV          |  | 9439    |     | 24.9/14.4 kV          |  | 9571    |      |
| Transmission          |  | 0      | 0%          | Transmission          |  | 1500    | 5%  | Transmission          |  | 1500    | 5%   |
| 47kV                  |  | 0      |             | 47kV                  |  | 142     |     | 47kV                  |  | 142     |      |
| 69kV                  |  | 0      |             | 69kV                  |  | 1358    |     | 69kV                  |  | 1358    |      |
| 230kV                 |  | 0      |             | 230kV                 |  | 0       |     | 230kV                 |  | 0       |      |
| Customer Minutes:     |  | 529822 | 9%          | Customer Minutes:     |  | 5063559 | 91% | Customer Minutes:     |  | 5593381 | 100% |
| Secondary             |  | 19624  | 4%          | Secondary             |  | 39758   | 1%  | Secondary             |  | 59382   | 1%   |
| Primary               |  | 510198 | 96%         | Primary               |  | 4901470 | 97% | Primary               |  | 5411668 | 97%  |
| 4.16/2.4 kV           |  | 1731   |             | 4.16/2.4 kV           |  | 2344    |     | 4.16/2.4 kV           |  | 2344    |      |
| 12.47/7.2 kV          |  | 498783 |             | 12.47/7.2 kV          |  | 2659552 |     | 12.47/7.2 kV          |  | 2659242 |      |
| 13.2/7.6 kV           |  | -      |             | 13.2/7.6 kV           |  | -       |     | 13.2/7.6 kV           |  | -       |      |
| 24.9/14.4 kV          |  | 9684   |             | 24.9/14.4 kV          |  | 2239574 |     | 24.9/14.4 kV          |  | 2239574 |      |
| Transmission          |  | 0      | 0%          | Transmission          |  | 122331  | 2%  | Transmission          |  | 122331  | 2%   |
| 47kV                  |  | 0      |             | 47kV                  |  | 20365   |     | 47kV                  |  | 20365   |      |
| 69kV                  |  | 0      |             | 69kV                  |  | 101966  |     | 69kV                  |  | 101966  |      |
| 230kV                 |  | 0      |             | 230kV                 |  | 0       |     | 230kV                 |  | 0       |      |

## BHP 2007 to 2011 Tree Outages in Relation to ROW



## Additional Notes:

\* 22 Feeder Outages = 40% of total Cmins (2,232,836 mins)

\* Only 2 Feeder outages were from a result of a tree inside ROW = 390,436 Cmins (17%)