**Table S1**

**Observed (Obs) Deaths and SMRs for Selected Causes of Death,**

**Plant L (Louisville, KY) Cohort, Local County Comparisons, by Follow-Up Period**

| **Cause of Death (9th Revision ICD Codes)** | **Original Follow-Up**  **1949-2000** | | | **Updated Follow-Up**  **1949-2017** | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Obs** | **( )b. SMR** | **95% CI** | **Obs** | **( )b. SMR** | **95% CI** |
| All Causes of Death (001-999) | 2409 | (2363).74\*\* | .71-.77 | 3802 | (3756).74\*\* | .72-.76 |
| All Cancer (140-208) | 658 | .75\*\* | .70-.81 | 974 | .75\*\* | .70-.80 |
| Buccal Cavity and Pharynx (140-149) | 13 | .51\* | .27-.88 | 19 | .61\* | .37-.96 |
| Digestive Organs and Peritoneum (150-159) | 168 | .82\*\* | .70-.95 | 241 | .80\*\* | .70-.90 |
| Esophagus (150) | 20 | .72 | .44-1.10 | 28 | .69\* | .46-1.00 |
| Stomach (151) | 24 | 1.07 | .69-1.59 | 28 | .96 | .64-1.39 |
| Large Intestine (153) | 70 | .93 | .73-1.18 | 96 | .88 | .71-1.07 |
| Rectum (154) | 12 | .79 | .41-1.37 | 16 | .81 | .46-1.31 |
| Biliary Passages & Liver Primary (155,156) | 17 | .89 | .52-1.43 | 31 | .95 | .65-1.35 |
| Pancreas (157) | 22 | .56\*\* | .35-.85 | 36 | .60\*\* | .41-.83 |
| All Other Digestive (152,158,159) | 3 | .48 | .10-1.40 | 6 | .53 | .20-1.16 |
| Respiratory System (160-165) | 267 | .76\*\* | .67-.86 | 358 | .73\*\* | .65-.81 |
| Larynx (161) | 10 | .75 | .36-1.38 | 13 | .76 | .41-.1.30 |
| Bronchus, Trachea, Lung (162) | 253 | .76\*\* | .67-.86 | 340 | .72\*\* | .65-.80 |
| All Other Respiratory (160,163,164,165) | 4 | 1.26 | .34-3.23 | 5 | 1.34 | .43-3.13 |
| Breast (174,175) | 11 | .99 | .50-1.78 | 27 | 1.60\* | 1.05-2.33 |
| All Uterine (female only) 179,180,181,182) | 2 | .60 | .07-2.16 | 3 | .63 | .13-1.85 |
| Prostate (Males Only) (185) | 47 | .68\*\* | .50-.90 | 84 | .72\*\* | .58-.89 |
| Kidney (189.0,189.1,189.2) | 15 | .85 | .47-1.40 | 26 | .87 | .57-1.28 |
| Bladder and Other Urinary Organs  (188,189.3,189.4,189.8,189.9) | 14 | .68 | .37-1.15 | 25 | .67\* | .44-.99 |
| Malignant Melanoma of Skin (172) | 5 | .57 | .19-1.33 | 8 | .55 | .24-1.09 |
| Central Nervous System (191,192) | 14 | .76 | .41-1.27 | 22 | .86 | .54-1.30 |
| Lymphatic-Hematopoietic Tissue (200-208) | 63 | .88 | .67-1.12 | 84 | .74\*\* | .59-.92 |
| Hodgkin’s Disease (201) | 4 | .83 | .23-2.13 | 4 | .74 | .20-1.89 |
| Non-Hodgkin’s Lymphoma  (200,202.0,202.1,202.8,202.9) | 23 | .91 | .58-1.37 | 31 | .77 | .52-1.09 |
| Leukemia and Aleukemia (204-208) | 26 | .91 | .59-1.33 | 35 | .78 | .54-1.08 |
| All Other Lymphopoietic Tissue  (202.2,202.3,202.4,202.5,202.6,203) | 10 | .76 | .36-1.39 | 14 | .62 | .34-1.03 |
| All Other Malignant Neoplasms  (171,173,195-199) | 37 | .60\*\* | .43-.83 | 73 | .75\* | .59-.95 |
| Diabetes (250) | 48 | (48).74\* | .55-.98 | 84 | (84).71\*\* | .57-.88 |
| Cerebrovascular Disease (430-438) | 140 | (139).71\*\* | .59-.83 | 213 | (212).72\*\* | .62-.82 |
| All Heart Disease  (390-398,402,404,410-429) | 830 | (822).71\*\* | .66-.76 | 1219 | (1211).74\*\* | .70-.78 |
| Nonmalignant Respiratory Disease (460-519) | 160 | (160).56\*\* | .48-.66 | 326 | (326).63\*\* | .56-.70 |
| Ulcer of Stomach and Duodenum (531-533) | 8 | (6).61 | .23-1.37 | 11 | (9).78 | .36-1.48 |
| Cirrhosis of Liver (571) | 32 | (32).52\*\* | .35-.73 | 40 | (40).54\*\* | .39-.74 |
| Nephritis and Nephrosis (580-589) | 32 | (30).92 | .62-1.31 | 74 | (72).79\* | .62-.99 |
| All External Causes of Death (E800-999) | 132 | (118).62\*\* | .52-.75 | 170 | (158).63\*\* | .54-.74 |
| Accidents (E800-949) | 80 | (74).68\*\* | .53-.85 | 108 | (102).66\*\* | .54-.80 |
| Suicides (E950-959) | 33 | (31).65\* | .44-.93 | 42 | (40).68\* | .49-.93 |
| Homicides and Other External (E960-978,  E980-999) | 17 | (13).41\*\* | .22-.69 | 20 | (16).43\*\* | .25-.70 |
| Unknown Causes | 113 | | |  | 113 | |

\* p < .05

\*\* p < .01

a. Observation period is 1960-2000 for all causes combined and nonmalignant causes of death

b. Observed number of deaths during 1960-2017 study period

**Table S2**

**Observed (Obs) Deaths and SMRs for Selected Causes of Death**

**Plant P (Pontchartrain, LA) Cohort, Local County Comparisons, by Follow-Up Period**

| **Cause of Death (9th Revision ICD Codes)** | **Original Follow-Up**  **1949-2000** | | | **Updated Follow-Up**  **1949-2017** | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Obs** | **( )b. SMR** | **95% CI** | **Obs** | **( )b. SMR** | **95% CI** |
| All Causes of Death (001-999) | 102 | (102).52\*\* | .42-.63 | 316 | (316).58\*\* | .51-.65 |
| All Cancer (140-208) | 34 | .66\* | .46-.92 | 92 | .64\*\* | .52-.78 |
| Digestive Organs and Peritoneum (150-159) | 7 | .61 | .25-1.27 | 20 | .55\*\* | .34-.86 |
| Esophagus (150) | 0 | -- | -- | 2 | .46 | .06-1.66 |
| Stomach (151) | 1 | .74 | .02-4.13 | 2 | .63 | .08-2.28 |
| Large Intestine (153) | 3 | .76 | .16-2.21 | 10 | .93 | .45-1.71 |
| Rectum (154) | 2 | 2.88 | .35-10.39 | 2 | 1.10 | .13-3.96 |
| Biliary Passages & Liver Primary (155,156) | 0 | -- | -- | 1 | .16\* | .00-.88 |
| Pancreas (157) | 1 | .43 | .01-2.37 | 3 | .35 | .07-1.03 |
| Respiratory System (160-165) | 12 | .60 | .31-1.05 | 32 | .64\*\* | .44-.90 |
| Larynx (161) | 1 | 1.45 | .04-8.07 | 1 | .59 | .02-3.31 |
| Bronchus, Trachea, Lung (162) | 10 | .53\* | .25-.97 | 30 | .62\*\* | .42-.89 |
| All Other Respiratory (160,163,164,165) | 1 | 4.20 | .11-23.40 | 1 | 2.37 | .06-13.19 |
| Prostate (Males Only) (185) | 1 | .39 | .01-2.20 | 4 | .46 | .13-1.17 |
| Kidney (189.0,189.1,189.2) | 1 | .68 | .02-3.78 | 3 | .70 | .14-2.04 |
| Bladder and Other Urinary Organs  (188,189.3,189.4,189.8,189.9) | 0 | -- | -- | 1 | .28 | .01-1.58 |
| Malignant Melanoma of Skin (172) | 2 | 2.02 | .25-7.30 | 2 | .88 | .11-3.19 |
| Central Nervous System (191,192) | 3 | 1.89 | .39-5.53 | 7 | 1.84 | .74-3.79 |
| Lymphatic-Hematopoietic Tissue (200-208) | 5 | 1.01 | .33-2.36 | 13 | .94 | .50-1.61 |
| Non-Hodgkin’s Lymphoma  (200,202.0,202.1,202.8,202.9) | 2 | .96 | .12-3.48 | 5 | .91 | .30-2.13 |
| Leukemia and Aleukemia (204-208) | 2 | 1.11 | .13-4.00 | 4 | .75 | .21-1.93 |
| All Other Lymphopoietic Tissue  (202.2,202.3,202.4,202.5,202.6,203) | 1 | 1.39 | .04-7.72 | 4 | 1.61 | .44-4.13 |
| All Other Malignant Neoplasms  (171,173,195-199) | 2 | .43 | .05-1.55 | 9 | .67 | .31-1.28 |
| Diabetes (250) | 1 | (1).19 | .01-1.03 | 6 | (6).42\* | .15-.91 |
| Cerebrovascular Disease (430-438) | 2 | (2).27\* | .03-.96 | 15 | (15).63 | .35-1.04 |
| All Heart Disease  (390-398,402,404,410-429) | 26 | (26).42\*\* | .28-.62 | 78 | (78).50\*\* | .40-.62 |
| Nonmalignant Respiratory Disease (460-519) | 3 | (3).31\* | .07-.92 | 20 | (20).50\*\* | .30-.77 |
| Cirrhosis of Liver (571) | 1 | (1).24 | .01-1.35 | 3 | (3).34\* | .07-.99 |
| Nephritis and Nephrosis (580-589) | 0 | -- | -- | 6 | (6).48 | .18-1.05 |
| All External Causes of Death (E800-999) | 18 | (18).59\* | .35-.93 | 31 | (31).59\*\* | .40-.84 |
| Accidents (E800-949) | 14 | (14).82 | .45-1.38 | 21 | (21).67 | .41-1.02 |
| Suicides (E950-959) | 2 | (2).27\* | .03-.99 | 8 | (8).67 | .29-1.32 |
| Homicides and Other External (E960-978,  E980-999) | 2 | (2).32 | .04-1.14 | 2 | (2).22\* | .03-.81 |
| Unknown Causes | 1 | | | 1 | | |

\* p < .05

\*\* p < .01

a. Observation period is 1960-2000 for all causes combined and nonmalignant causes of death

b. Observed number of deaths during 1960-2017 study period

**Table S3**

**Observed (Obs) Deaths and SMRs for Selected Causes of Death, Combined Plant L (Louisville, KY) and Plant P (Ponchartrain, LA) Cohorts, Local County Comparisons, by Follow-Up Period**

| **Cause of Death (9th Revision ICD Codes)** | **Original Follow-Up**  **1949-2000** | | | **Updated Follow-Up**  **1949-2017** | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Obs** | **( )b. SMR** | **95% CI** | **Obs** | **( )b. SMR** | **95% CI** |
| All Causes of Death (001-999) | 2511 | (2465).72\*\* | .70-.75 | 4118 | (4072).72\*\* | .70-.75 |
| All Cancer (140-208) | 692 | .75\*\* | .69-.81 | 1066 | .74\*\* | .70-.79 |
| Buccal Cavity and Pharynx (140-149) | 13 | .49\*\* | .26-.84 | 19 | .56\*\* | .33-.87 |
| Digestive Organs and Peritoneum (150-159) | 175 | .81\*\* | .69-.94 | 261 | .77\*\* | .68-.87 |
| Esophagus (150) | 20 | .68 | .42-1.06 | 30 | .67\* | .45-.95 |
| Stomach (151) | 25 | 1.05 | .68-1.55 | 30 | .93 | .63-1.33 |
| Large Intestine (153) | 73 | .93 | .73-1.17 | 106 | .88 | .72-1.06 |
| Rectum (154) | 14 | .88 | .48-1.47 | 18 | .83 | .49-1.32 |
| Biliary Passages & Liver Primary (155,156) | 17 | .83 | .48-1.32 | 32 | .82 | .56-1.16 |
| Pancreas (157) | 23 | .56\*\* | .35-.83 | 39 | .57\*\* | .40-.78 |
| All Other Digestive (152,158,159) | 3 | .46 | .10-1.36 | 6 | .48 | .18-1.04 |
| Respiratory System (160-165) | 279 | .75\*\* | .67-.85 | 390 | .72\*\* | .65-.79 |
| Larynx (161) | 11 | .78 | .39-1.40 | 14 | .75 | .41-1.25 |
| Bronchus, Trachea, Lung (162) | 263 | .74\*\* | .66-.84 | 370 | .71\*\* | .64-.79 |
| All Other Respiratory (160,163,164,165) | 5 | 1.47 | .48-3.42 | 6 | 1.45 | .53-3.15 |
| Breast (174,175) | 11 | .92 | .46-1.64 | 27 | 1.38 | .91-2.01 |
| All Uterine (female only) 179,180,181,182) | 2 | .57 | .07-2.06 | 3 | .57 | .12-1.65 |
| Prostate (Males Only) (185) | 48 | .67\*\* | .49-.86 | 88 | .70\*\* | .56-.87 |
| Kidney (189.0,189.1,189.2) | 16 | .84 | .48-1.36 | 29 | .85 | .57-1.22 |
| Bladder and Other Urinary Organs  (188,189.3,189.4,189.8,189.9) | 14 | .66 | .36-1.10 | 26 | .64\* | .42-.94 |
| Malignant Melanoma of Skin (172) | 7 | .72 | .29-1.48 | 10 | .60 | .29-1.10 |
| Central Nervous System (191,192) | 17 | .85 | .49-1.35 | 29 | .99 | .66-1.41 |
| Lymphatic-Hematopoietic Tissue (200-208) | 68 | .89 | .69-1.12 | 97 | .76\*\* | .62-.93 |
| Hodgkin’s Disease (201) | 4 | .78 | .21-1.99 | 4 | .68 | .18-1.73 |
| Non-Hodgkin’s Lymphoma  (200,202.0,202.1,202.8,202.9) | 25 | .92 | .59-1.35 | 36 | .79 | .55-1.09 |
| Leukemia and Aleukemia (204-208) | 28 | .92 | .61-1.33 | 39 | .77 | .55-1.06 |
| All Other Lymphopoietic Tissue  (202.2,202.3,202.4,202.5,202.6,203) | 11 | .79 | .40-1.42 | 18 | .71 | .42-1.13 |
| All Other Malignant Neoplasms  (171,173,195-199) | 39 | .59\* | .42-.81 | 82 | .74\*\* | .59-.92 |
| Diabetes (250) | 49 | (49).70\*\* | .52-.92 | 90 | (90).68\*\* | .55-.83 |
| Cerebrovascular Disease (430-438) | 142 | (141).69\*\* | .58-.81 | 228 | (227).71\*\* | .62-.81 |
| All Heart Disease  (390-398,402,404,410-429) | 856 | (848).70\*\* | .65-.74 | 1297 | (1289).72\*\* | .68-.76 |
| Nonmalignant Respiratory Disease (460-519) | 163 | (163).58\*\* | .47-.65 | 346 | (346).62\*\* | .55-.69 |
| Ulcer of Stomach and Duodenum (531-533) | 8 | (6).59 | .22-1.28 | 11 | (9).73 | .34-1.39 |
| Cirrhosis of Liver (571) | 33 | (33).50\*\* | .34-.70 | 43 | (43).52\*\* | .38-.70 |
| Nephritis and Nephrosis (580-589) | 32 | (30).87 | .59-1.24 | 80 | (78).75\*\* | .59-.94 |
| All External Causes of Death (E800-999) | 148 | (136).62\*\* | .52-.73 | 201 | (189).62\*\* | .54-.72 |
| Accidents (E800-949) | 94 | (88).69\*\* | .56-.86 | 129 | (123).66\*\* | .55-.79 |
| Suicides (E950-959) | 35 | (33).60\*\* | .41-.85 | 50 | (48).68\*\* | .50-.90 |
| Homicides and Other External (E960-978,  E980-999) | 19 | (15).39\*\* | .22-.64 | 22 | (18).39\*\* | .23-.62 |
| Unknown Causes | 114 | | | 114 | | |

\* p < .05

\*\* p < .01

a. Observation period is 1960-2017 for all causes combined and nonmalignant causes of death

b. Observed number of deaths during 1960-2017 study period

**Table S4**

**Observed Deaths and SMRs for All Cancers Combined by Selected Study Factors**

**and Plant, Local County Comparisons**

| **Study Factor** | **Plant L**  **(Louisville, KY)**  **(1949-2017)** | | **Plant P (Pontchartrain, LA)**  **(1962-2017)** | | **Both Plants** | |
| --- | --- | --- | --- | --- | --- | --- |
| **Obs** | **SMR (95% CI)** | **Obs** | **SMR (95% CI)** | **Obs** | **SMR (95% CI)** |
| All Workers | 974 | 0.75\*\* (.70-.80) | 92 | 0.64\*\* (.51-.78) | 1066 | 0.74\*\* (.70-.79) |
| Race  White  Nonwhite | 840  134 | 0.77\*\* (.72-.83)  0.64\*\* (.54-.76) | 83  10 | 0.65\*\* (.52-.80)  0.54\* (.23-.96) | 923  143 | 0.76\*\* (.71-.81)  0.63\*\* (.53-.75) |
| Sex  Male  Female | 889  85 | 0.74\*\* (.69-.79)  0.88 (.70-.1.09) | 89  3 | 0.67\*\* (.54-.83)  0.25\*\* (.05-.74) | 978  88 | 0.73\*\* (.69-.78)  0.81\* (.65-.1.00) |
| Worker Pay Type  Blue Collar  White Collar | 955  19 | 0.75\*\* (.71-.80)  0.60\* (.36-.94) | 62  30 | 0.62\*\* (.47-.79)  0.68\* (.46-.97) | 1017  49 | 0.74\*\* (.70-.79)  0.65\*\* (.48-.86) |
| Worker Service Type  Short-term(<5yrs)  Long-term(5+yrs) | 440  534 | 0.73\*\* (.66-.80)  0.77\*\* (.70-.84) | 13  79 | 0.62 (.33-1.06)  0.64\*\* (.51-.80) | 453  613 | 0.72\*\* (.66-.79)  0.75\*\* (.69-.81) |
| Duration of Employment  < 5  5 -19  20 + | 440  165  369 | 0.72\*\* (.66-.79)  0.68\*\* (.58-.80)  0.83\*\* (.58-.80) | 13  35  44 | 0.57\* (.31-.98)  0.69\* (.48-.97)  0.62\*\* (.45-.83) | 453  200  413 | 0.72\*\* (.65-.78)  0.68\*\* (.59-.79)  0.80\*\* (.72-.88) |
| Time Since First Employment  < 20  20-29  30 + | 52  129  793 | 0.48\*\* (.36-.62)  0.71\*\* (.75-.92)  0.79\*\* (.73-.85) | 18  18  56 | 0.80 (.48-1.27)  0.55\*\* (.33-.87)  0.63\*\* (.47-.81) | 70  147  849 | 0.53\*\* (.41-.67)  0.69\*\* (.58-.81)  0.78\*\* (.72-.83) |
| CD Exposure Status  Unexposed  Exposed | 2  972 | .50 (.06-1.79)  0.75\*\* (.71-.80) | 10  82 | 1.02 (.49-1.87)  0.61\*\* (.48-.76) | 12  1054 | .87 (.45-1.51)  0.74\*\* (.69-.78) |
| VC Exposure Status  Unexposed  Exposed | 743  231 | 0.78\*\* (.72-.83)  0.68\*\* (.60-.77) | 92  0 | 0.64\*\* (.51-.78)  -- | 835  231 | 0.76\*\* (.71-.81)  0.68\*\* (.60-.77) |

\* p < .05

\*\* p < .01

**Table S5**

**Observed Deaths and SMRs for Respiratory System Cancer by Selected Study Factors**

**and Plant, Local County Comparisons**

| **Study Factor** | **Plant L**  **(Louisville, KY)**  **(1949-2017)** | | **Plant P**  **(Pontchartrain, LA)**  **(1962-2017)** | | **Both Plants** | |
| --- | --- | --- | --- | --- | --- | --- |
| **Obs** | **SMR (95% CI)** | **Obs** | **SMR (95% CI)** | **Obs** | **SMR (95% CI)** |
| All Workers | 358 | 0.73\*\* (.65-.81) | 32 | 0.64\*\* (.44-.90) | 390 | 0.72\*\* (.65-.79) |
| Race  White  Nonwhite | 312  46 | 0.75\*\* (.67-.84)  0.62\*\* (.44-.82) | 29  3 | 0.65\* (.44-.93)  .50 (.04-1.28) | 341  49 | 0.74\*\* (.66-.82)  0.61\*\* (.45-.80) |
| Sex  Male  Female | 337  21 | 0.73\*\* (.65-.81)  0.77 (.48-1.18) | 31  1 | 0.66\* (.45-.93)  0.34 (.01-1.87) | 368  22 | 0.72\*\* (.65-.80)  0.73 (.46-1.10) |
| Worker Pay Type  Blue Collar  White Collar | 353  5 | 0.74\*\* (.66-.82)  0.40\* (.13-.94) | 28  4 | 0.79 (.53-1.14)  0.27\*\* (.07-.68) | 381  9 | 0.74\*\* (.67-.82)  0.33\*\* (.15-.62) |
| Worker Service Type  Short-term(<5yrs)  Long-term(5+yrs) | 169  189 | 0.74\*\* (.63-.85)  0.72\*\* (.62-.83) | 2  30 | 0.31 (.04-1.13)  0.68\* (.46-.98) | 171  219 | 0.73\*\* (.62-.85)  0.71\*\* (.62-.81) |
| Duration of Employment  < 5  5 -19  20 + | 169  56  133 | 0.74\*\* (.63-.86)  0.64\*\* (.49-.83)  0.76\*\* (.64-.90) | 2  10  20 | 0.29 (.04-1.05)  0.57 (.27-1.05)  0.78 (.48-1.21) | 171  66  153 | 0.72\*\* (.62-.84)  0.63\*\* (.49-.80)  0.76\*\* (.65-.89) |
| Time Since First Employment  < 20  20-29  30 + | 15  52  291 | 0.42\*\* (.23-.69)  0.69\*\* (.52-.91)  0.77\*\* (.68-.86) | 4  5  23 | 0.52 (.14-1.34)  0.41\* (.13-.96)  0.76 (.48-1.13) | 19  57  314 | 0.44\*\* (.26-.68)  0.65\*\* (.49-.84)  0.76\*\* (.68-.85) |
| CD Exposure Status  Unexposed  Exposed | 1  357 | 0.64 (.02-3.55)  0.73\*\* (.66-.81) | 0  32 | --  0.68\* (.47-.96) | 1  389 | 0.20 (.01-1.13)  0.72\*\* (.65-.80) |
| VC Exposure Status  Unexposed  Exposed | 295  63 | 0.83\*\* (.73-.93)  0.47\*\* (.36-.60) | 32  0 | 0.64\*\* (.44-.90)  -- | 327  63 | 0.80\*\* (.72-.89)  0.47\*\* (.36-.60) |

\* p < .05

\*\* p < .01

**Table S6**

**Observed Deaths and SMRs for Liver Cancer by Selected Study Factors**

**and Plant, Local County Comparisons**

| **Study Factor** | **Plant L**  **(Louisville, KY)**  **(1949-2017)** | | **Plant P (Pontchartrain, LA)**  **(1962-2017)** | | **Both Plants** | |
| --- | --- | --- | --- | --- | --- | --- |
| **Obs** | **SMR (95% CI)** | **Obs** | **SMR (95% CI)** | **Obs** | **SMR (95% CI)** |
| All Workers | 31 | 0.95 (.65-1.35) | 1 | 0.16\* (.00-.88) | 32 | 0.82 (.56-1.16) |
| Race  White  Nonwhite | 27  4 | 1.00 (.65-1.44)  0.71 (.12-1.68) | 1  0 | 0.19 (.01-1.08)  -- | 28  4 | 0.87 (.57-1.25)  0.58 (.10-1.37) |
| Sex  Male  Female | 29  2 | 0.95 (.64-1.37)  0.98 (.12-3.53) | 1  0 | 0.17\* (.00-.93)  -- | 30  2 | 0.82 (.56-1.17)  0.85 (.10-3.06) |
| Worker Pay Type  Blue Collar  White Collar | 31  0 | 0.98 (.67-1.39)  -- | 0  1 | --  0.59 (.02-3.27) | 31  1 | 0.86 (.58-1.22)  0.37 (.01-2.07) |
| Worker Service Type  Short-term(<5yrs)  Long-term(5+yrs) | 13  18 | 0.87 (.46-1.48)  1.03 (.61-1.63) | 0  1 | --  0.19 (.01-1.07) | 13  19 | 0.81 (.43-1.38)  0.84 (.50-1.31) |
| Duration of Employment  < 5  5 -19  20 + | 13  8  10 | 0.86 (.46-1.47)  1.31 (.57-2.59)  0.89 (.43-1.63) | 0  0  1 | --  --  0.33 (.01-1.84) | 13  8  11 | 0.80 (.43-1.37)  0.98 (.42-1.92)  0.77 (.38-1.38) |
| Time Since First Employment  < 20  20-29  30 + | 1  3  27 | 0.48 (.01-2.66)  0.76 (.16-2.22)  1.02 (.67-1.48) | 0  0  1 | --  --  0.24 (.01-1.34) | 1  3  28 | 0.36 (.01-1.99)  0.56 (.12-1.62)  0.91 (.61-1.32) |
| CD Exposure Status  Unexposed  Exposed | 0  31 | --  0.96 (.65-1.36) | 0  1 | --  0.17\* (.00-.93) | 0  32 | --  0.83 (.57-1.18) |
| VC Exposure Status  Unexposed  Exposed | 24  7 | 0.99 (.64-1.48)  0.84 (.34-1.72) | 1  0 | 0.16\* (.00-.88)  -- | 25  7 | 0.82 (.53-1.21)  0.84 (.34-1.72) |

\* p < .05

\*\* p < .01

**Table S7**

**Observed Deaths and SMRs for Breast Cancer by Selected Study Factors**

**and Plant, Local County Comparisons**

| **Study Factor** | **Plant L (Louisville, KY)**  **(1949-2017)** | | **Both Plants** | |
| --- | --- | --- | --- | --- |
| **Obs** | **SMR (95% CI)** | **Obs** | **SMR (95% CI)** |
| All Workers | 27 | 1.60\* (1.05-2.33) | 27 | 1.38 (.91-2.01) |
| Race  White  Nonwhite | 23  4 | 1.61\* (1.01-2.39)  1.55 (.25-3.57) | 23  4 | 1.44 (.90-2.14)  1.11 (.18-2.57) |
| Sex  Male  Female | 3  24 | 1.98 (.41-5.79)  1.56\* (1.00-2.32) | 3  24 | 1.76 (.36-5.13)  1.35 (.86-2.00) |
| Worker Pay Type  Blue Collar  White Collar | 27  0 | 1.62\* (1.07-2.36)  -- | 27  0 | 1.51 (.99-2.19)  -- |
| Worker Service Type  Short-term(<5yrs)  Long-term(5+yrs) | 16  11 | 1.62 (.93-2.64)  1.57 (.78-2.81) | 16  11 | 1.43 (.82-2.33)  1.31 (.66-2.35) |
| Duration of Employment  < 5  5 -19  20 + | 16  4  7 | 1.60 (.92-2.60)  0.95 (.26-2.43)  2.65\* (1.06-5.46) | 16  4  7 | 1.41 (.81-2.30)  0.82 (.22-2.10)  2.12 (.85-4.37) |
| Time Since First Employment  < 20  20-29  30 + | 1  3  23 | 0.45 (.01-2.50)  1.09 (.22-3.18)  1.94\*\* (1.23-2.91) | 1  3  23 | 0.34 (.01-1.89)  0.84 (.17-2.46)  1.77\* (1.12-2.65) |
| CD Exposure Status  Unexposed  Exposed | 0  27 | --  1.60\* (1.05-2.33) | 0  27 | --  1.41 (.93-2.06) |
| VC Exposure Status  Unexposed  Exposed | 24  3 | 1.54 (.98-2.29)  2.37 (.49-6.93) | 24  3 | 1.31 (.84-1.95)  2.37 (.49-6.93) |

\* p < .05

\*\* p < .01