

Making Table 1

Ericka B. Smith

```
(dat <- readRDS(here("results", "table_3_equivalent.rds")))
```

```
## # A tibble: 26 x 4
## # Groups:   lcz [13]
##   lcz   tt total_n_pixels n_polygons
##   <fct> <chr>         <int>      <int>
## 1 1     test          336         13
## 2 1     train         295         13
## 3 2     test           62          5
## 4 2     train         117          6
## 5 3     test          141          7
## 6 3     train         185          7
## 7 4     test          398          9
## 8 4     train         275         10
## 9 5     test           47          4
## 10 5    train          79          4
## # ... with 16 more rows
```

```
tibble(lcz = factor(c("7", "7", "9", "9", "15", "15", "16", "16")),#,
  tt = factor(c("train", "test", "train", "test", "train", "test", "train", "test")),
  total_n_pixels = rep(0, times=8),
  n_polygons = rep(0, times=8)) %>%
  bind_rows(dat) %>%
  mutate(lcz = fct_relevel(lcz, c("1", "2", "3", "4", "5", "6", "7", "8", "9", "10", "11", "12", "13", "14", "15", "16")))
  arrange(lcz) %>%
  ungroup() %>%
  pivot_wider(names_from=tt, values_from=c(total_n_pixels, n_polygons)) %>%
  unite("Train", c(n_polygons_train, total_n_pixels_train), sep = " (") %>%
  unite("Test", c(n_polygons_test, total_n_pixels_test), sep = " (") %>%
  mutate(Train = paste(Train, ")"), sep=""),
  Test = paste(Test, ")"), sep="")) %>%
  relocate(Test, .after=Train) %>%
  mutate(lcz = fct_recode(lcz, "Class 1: Compact high-rise" = "1",
    "Class 2: Compact mid-rise" = "2",
    "Class 3: Compact low-rise" = "3",
    "Class 4: Open high-rise" = "4",
    "Class 5: Open mid-rise" = "5",
    "Class 6: Open low-rise" = "6",
    "Class 7: Lightweight low-rise" = "7",
    "Class 8: Large low-rise" = "8",
    "Class 9: Sparsely built" = "9",
    "Class 10: Heavy Industry" = "10",
    "Class 11: Dense trees" = "11",
```

```

      "Class 12: Scattered trees" = "12",
      "Class 13: Bush, scrub" = "13",
      "Class 14: Low plants" = "14",
      "Class 15: Bare rock or paved" = "15",
      "Class 16: Bare soil or sand" = "16",
      "Class 17: Water" = "17")) %>%
kable(caption = "Delineation of training and test data by polygon and pixel.", format='latex',linesep='
      col.names = linebreak(c("Local Climate Zone", "Train", "Test")) %>%
kable_styling(latex_options = c('striped','HOLD_position'), font_size = 8) %>%
add_footnote("Number of polygons is listed first, with number of pixels in parentheses.") %>%
save_kable(here("results", "table1.pdf"))

```