

Songbird Refuge

HUMBOLDT STATE UNIVERSITY

Background

The Appicateers were comissioned by Zane Middle School to design and build birdhouses for migratory songbirds. The birdhouses are part of a community nature trail that is in the process of being built.



Site of the Songbird Refuge: Zane Middle School's athletic field

Objective

The objective is to produce sustainable, reproducible and aesthetically pleasing birdhouses. These structures attract and house the birds that travel through the migratory bird corridor in Zane Middle School's athletic field.



Don't Draw-Pot

The Wood Duck Inn

Results

The Songbird Refuge consists of four unique bird shelters; The Don't Draw-Pot, The Bird Bungalow, The Wood Duck Inn, and The Chickadee Cottage. The Don't Draw-Pot is a tea pot re-purposed as a birdhouse, mounted in an upcycled desk drawer to provide additional shelter. The Wood Duck Inn and Chickadee Cottage are rectangular wooden boxes with upcycled sheet metal roofs. The Bird Bungalow houses 4 seperate nests in spacious ravioli cans, with additional protection provided by a rounded metal roof.

Left: Chickadee Cottage
Right: Bird Bungalow



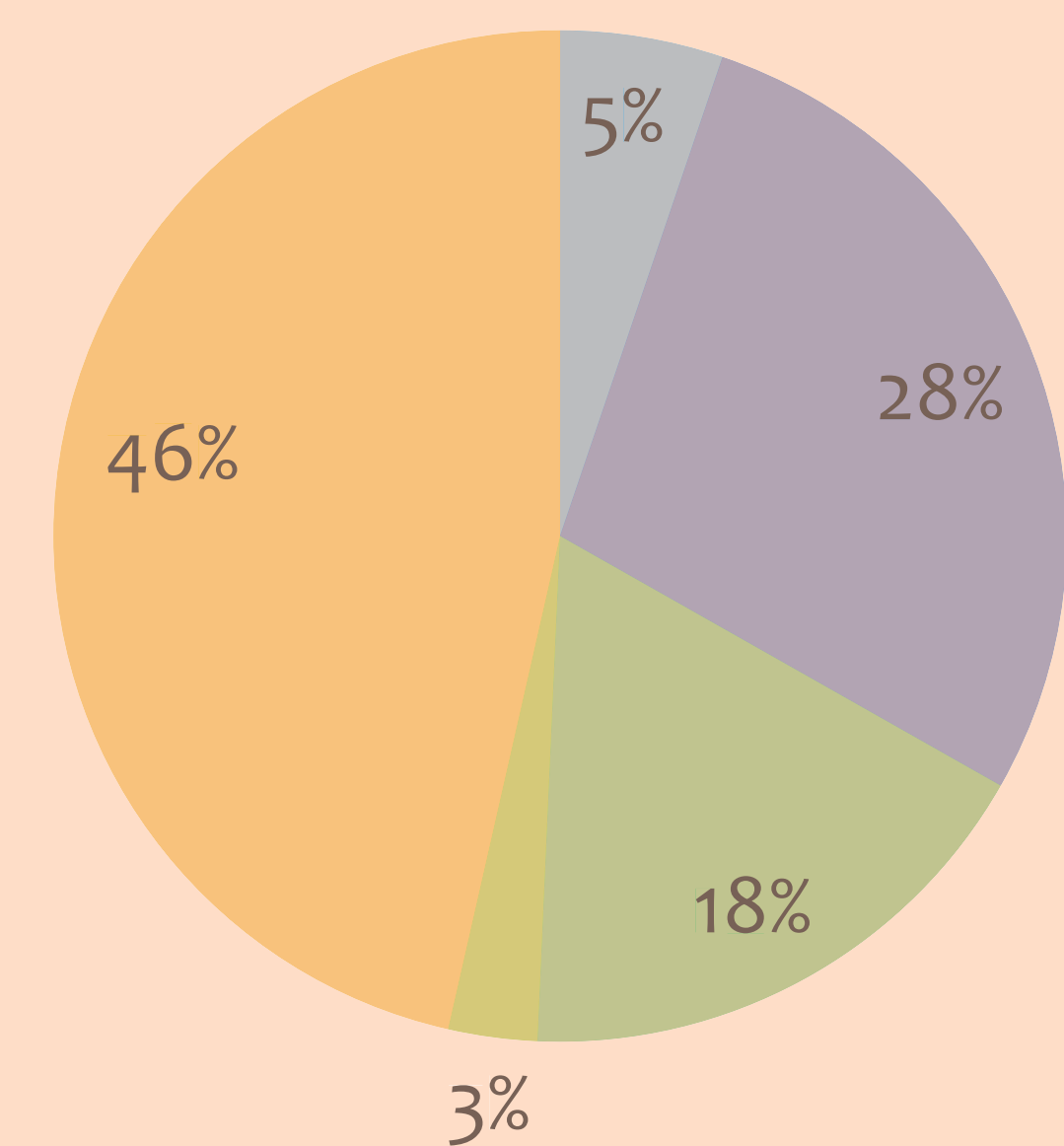
Building Cost

Quantity	Material	Source	Cost (\$)	Total (\$)
6 lbs	Sheet Metal	Arcata SCRAP	1.95	11.70
36 sq. ft	Scrap Wood	The Mill Yard	Donated	0.00
2	Elec. Wiring Spool	Scrap Yard	Donated	0.00
1	PVC Pipe 4"x10'	Ace Hardware	29.99	29.99
1	Wooden Dowel	Ace Hardware	4.69	4.69
4	Ravioli Cans	Safeway	2.95	11.80
40	Screws	Ace Hardware	.08	3.20
1	Desk Drawer	Scrap Yard	Donated	0.00
1	Tea Pot	Arcata SCRAP	2.63	2.63
1	Fencing Concrete	Ace Hardware	3.54	3.54
1	Drawer Handle	Ace Hardware	2.69	2.69

Total Cost of Materials: \$70.24

Criteria	Weight (1-10)
Sustainable Sourcing	9
Quality	8
Aesthetics	7
Cost	7
Diversity	7
Reproducibility	7
Safety	5
Capacity	3

Design Cost (hours)
~200 total hours



- Problem Formulation
- Literature Review
- Alternative Solutions
- Final Decision
- Specifications

By the Appicateers

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