



Hayden Residence

High desert residential system and landscape



SKYWATER®



t barnabas kane & associates
ENVIRONMENTAL DESIGN®

Hayden Residence

Project Overview

Underground active system, passive collection in landscape

- **Industry/Sector:** residential
- **Client:** private homeowners
- **Location:** Prescott, Arizona
- **Completion:** 2007, 2012
- **Description:** We ruled out above-ground tanks because of limited space and owner preference. Matching the existing grade, the new landscape and garden was constructed on top of the tank system. We selected the Eco-Rain system for its strength and flexibility. We capped the space with 2 ft. of topsoil for plantings and hardscape. Large trees were excluded from the tank footprint. Internal, 3-in. roof drains were intercepted just above grade with custom rainheads. Tank volume was dictated by landscape water budget.



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Design Data

- **Water use:** landscape irrigation
- **Annual average rainfall:** 14 in. (historically 18 in.)
- **Available roof area:** 1,500 sq. ft.
- **Roof material:** EPDM and pre-finished metal
- **Hardscape material:** pre-cast pavers



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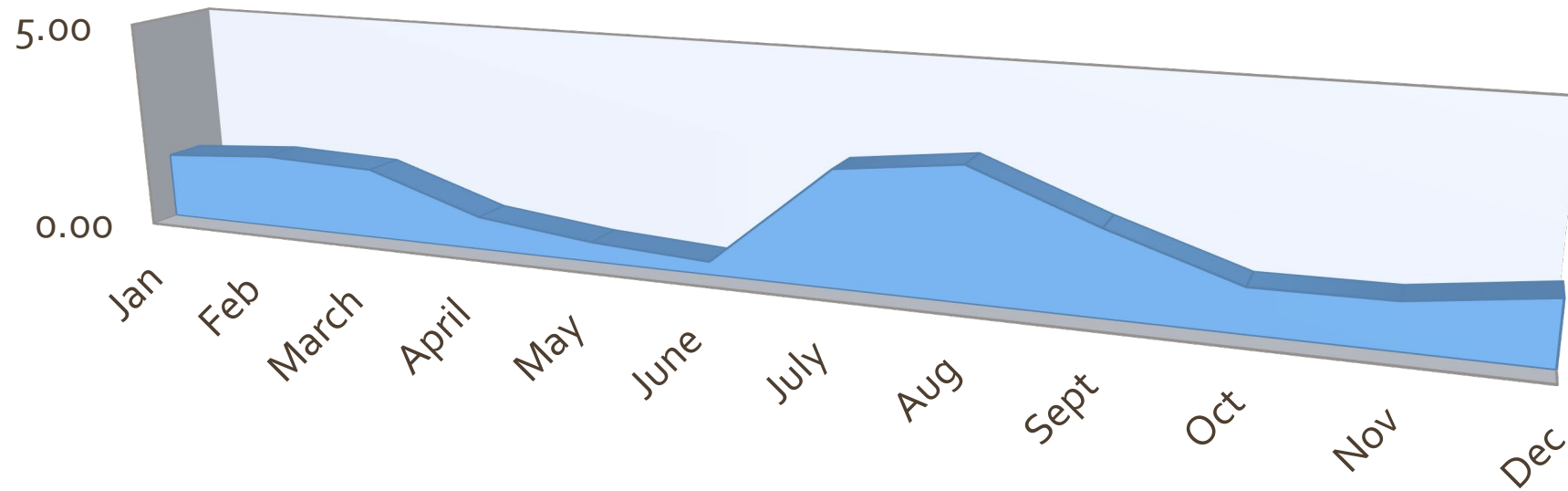
Rainwater System

- **Storage:** 8,000 gal.
- **System:** underground EPDM-lined EcoRain system
- **Pump:** 1.0 hp Grundfos in mechanical box
- **Roof and surface conveyance:** wet
- **Irrigation:** gravity
- **Overflow:** landscape



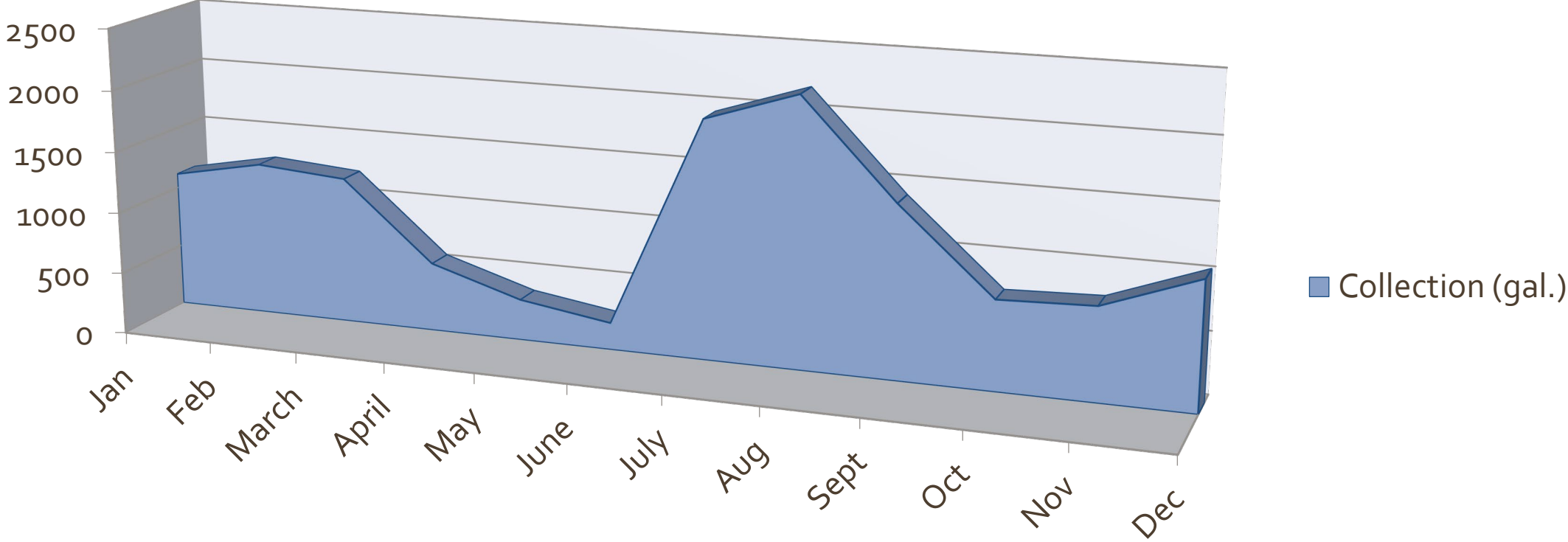
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Average Annual Precipitation (in.)



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Collection Potential (gal.)

















Hayden Residence *Team*

- **Designer:** TBK Environmental Design
- **Installer:** Skywater
- **Other Consultants:** High Desert Rain Catchment





Skywater

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