



Wild Basin Wilderness Preserve

2012 Annual Report

(October 1, 2011 – September 30, 2012)

Submitted by

Wild Basin Wilderness Preserve, St. Edward's University

to

Travis County Commissioners Court
And Transportation and Natural Resources

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PRESERVE MANAGEMENT

The Wild Basin Wilderness Preserve staff implements the policies and priorities set forth by both the previous Committee for Wild Basin Wilderness, Inc., and the current owner St. Edwards University (SEU), while maintaining accordance with regulations established by the Balcones Canyonlands Conservation Plan and Travis County. In 2009 Wild Basin was incorporated into St. Edward's University School of Natural Sciences. Wild Basin now serves as an interdisciplinary laboratory for SEU that supports environmental education, research, and conservation. Through this fortunate and welcomed merger, the Basin continues to support environmental education, research, conservation and preservation. This fortunate merger and growing collaboration has enhanced past programs and created novel research opportunities for Wild Basin, SEU, and the Balcones Canyonlands Preserve (BCP).

Throughout FY12, Wild Basin staff devoted their time to daily management and enhancement activities, including scheduling and supervising educational programs, practicing land management, coordinating and training volunteers and trail guides, as well as promoting Wild Basin through various events in Austin's environmental community. Additionally, staff spoke to numerous SEU classes on conservation issues and current land management practices taking place at Wild Basin and in the BCP.

Wild Basin's education and land management programs are designed to promote conservation and environmental awareness, while encouraging and demonstrating land stewardship practices. Situated at the periphery of the Texas Hill Country and surrounded by commercial and residential growth in west Austin, Wild Basin is a singular and significant conservation property for Travis County and the larger BCP. Its urban proximity supports the incursion of invasive species and is a source for pollution into the watershed. Additional forms of pollution, such as air, noise and light, also impact Wild Basin's more sensitive components. Yet through the promising merger with SEU and by continuing past efforts to promote conservation, research, and environmental awareness, Wild Basin aspires to become an exemplary model for urban preserves and a gateway to the BCP.

Building Infrastructure

Wild Basin Creative Research Center (WBCRC)

During 2012, St. Edward's renamed the Environmental Education Center the Wild Basin Creative Research Center (WBCRC). The naming of the main building in this fashion is to denote the importance of interdisciplinary learning at Wild Basin, and formally ties the preserve to SEU. This name change will be a positive for both Wild Basin and SEU.

General Maintenance – With the assistance of the staff, volunteers and SEU Facilities employees regularly cleaned and maintained the WBCRC’s interior, as well as performed exterior maintenance work on an as-needed basis.

Building Improvements

- In addition to repairing highly eroded areas on the handicap/delivery driveway, two substantial drainage channels were added to the driveway to divert excess water from eroding the slope. The down-slope side of each channel was reinforced with *Ashe juniper* stems and secured with rebar.
- Internal wall removal – A wall in the administrative office areas was removed to conform more properly to fire codes. The ceiling was braced to retain the load bearing status of this wall.
- The upstairs storage room was renovated as a teaching space for coursework to be conducted at Wild Basin. An internal wall was removed, new furniture placed in the area, six computers with internet drops installed, and the wireless system updated to support coursework that will take place within the building. Along with this project, the reception room to the Wild Basin Creative Research Center was re-located, creating a more even flow for the teaching and public spaces within the building.
- The computer and phone wiring systems were all replaced during the summer and fall of 2012.
- Rotting wood was replaced with new planks in the outdoor decking, and the main steps of the deck leading to the Wild Basin Creative Research Center were rebuilt.
- Landscaping – Staff and volunteers aesthetically enhanced the delivery/handicap parking area and Arroya Vista south trail head. *Ashe juniper* stems were used to line the perimeter of the parking area and delineate the trail head. A two-foot tall barrier fence, also built out of *Ashe juniper* stems, was additionally installed along the north perimeter of the south trailhead to deter hikers from venturing off-trail, and behind the Creative Research Center, to reach the Arroya Vista north trail head.

Information Technology (IT)

- Weather Station – Continuing its partnership with Austin Energy and their photovoltaic solar-panel display, Wild Basin was given a new weather monitoring station. Lighthouse Solar installed a Wattsmetric Webbox Monitoring unit and Weather Station. An additional LCD monitor was installed in the building, displaying real-time energy output and weather conditions.
- All the internal wiring was replaced for phone and computer systems.

Soft-Shade Structure

A soft-shade structure was erected to help with *poeciliid* fish studies being conducted by a St.

Edward's University faculty member. This person is also hoping to study other animal interactions at Wild Basin and placing the soft shade structure on site will allow for all studies to move forward in a smooth and efficient manner. We would like to thank the Travis County personnel for their invaluable input and guidance during this process.

Security

Emergency Procedures – Wild Basin staff continued to follow the emergency policies and procedures manual throughout all emergencies during FY12. Staff met with SEU Police and risk management representatives to update emergency procedures to accommodate increased student activity and courses being held at the Creative Research Center, particularly during non-traditional hours.

Signage

- Through a grant awarded by Austin/Travis County Health and Human Services, Wild Basin installed Tobacco Free signage, including five aluminum, weatherproof signs at all entrances and trail heads, including the information kiosk.
- Following the construction of the soft-shade structure, two 'No-Parking, Fire Lane' signs were installed by SEU Facilities to deter visitors from parking in the Fire and Emergency Vehicle turnaround.
- A new Travis County sign was installed at the entrance of the preserve which reflects the new name of the main building as the 'St. Edward's University Creative Research Center' at 'Wild Basin Preserve'.
- An address sign for the Preserve was installed on the northbound right-of-way of Highway 360, which denotes the Preserve's address of '805' in the standard reflective blue lettering advised by emergency response personnel. Additionally, solar-powered lights were installed below the sign so that it may be seen at night.

Preserve Perimeter – Staff performed annual perimeter walks to check the integrity of fencing and boundary markers. Brush was cleared to provide easier patrolling on line-of-sight pathways along all boundaries.

- Medina Perimeter – Due to increased thinning and clearing of private properties surrounding the southeast perimeter of Wild Basin during 2011-2012, excessive woody debris and cuttings accumulated in the arroyo drainage along a creek adjoining neighbor Mike Medina's property. The accumulated weight of debris dammed the confluence of two ephemeral creeks drainage and destroyed Travis County fencing along the property line and the creek's contour. Staff and volunteers, with the assistance and guidance of Travis County support, removed and redistributed the existing debris and dismantled the portion of downed fencing. Due to the location of the property line along a creek

drainage, staff replaced the area of fencing with an approximately 30 foot cable and appropriate signage denoting 'No Trespassing' and 'Travis County Preserve Boundary'.

- Hwy. 360 Incident – On July 24th, several trees and two Texas Department of Transportation road signs were observed to have been removed by a motor vehicle along the western perimeter of Wild Basin adjoining Highway 360 at the former Wild Basin Ledge turnaround. Further investigation showed the vehicle was heading southbound on Hwy. 360 and crossed the highway median and northbound lane heading southeast into the Preserve. A trail of downed *Ashe juniper* and Roosevelt weed led to the bottom of an arroyo paralleling the highway, where remnants of the since removed vehicle remained. A Texas truck license plate with the lettering 791 6SR was found among the debris and is registered to a 1980 pick-up truck out of Beaumont, TX. Travis County Collision Detective Deputy Paul Cossette stated that there is no record of an incident and that the truck was last registered in 1995, making any further investigation impracticable (pers com). Staff and volunteers removed the approximately one dozen severely damaged *Ashe junipers* and distributed them as erosion control along the formerly proposed Wild Basin Ledge road into the preserve.
- Southwest Corner – During an August perimeter walk, several downed trees were observed along the property fencing on the southwestern perimeter of the preserve. In addition to the mature trees that fell due to the compounding drought, woody debris from neighboring private properties' thinning efforts had amassed in a draw on the Preserve, adjacent to Ben Peays private property on Yaupon Valley Road. As it was outside of migratory bird season, staff and volunteers employed chainsaws to remove the downed mature Spanish oak and *Ashe juniper* off the property fence. They also collaborated with certified arborist Kevin Swafford and his staff at Arbortex to further break down large woody debris within the steep draw, under the supervision of Travis County staff. Private land owner Ben Peays allowed access from Yaupon Valley Road through his property to retrieve debris from the otherwise inaccessible location. Staff and volunteers cut the Travis County property fence to ease transporting the excess debris off-site and repaired the fence once the work was complete.

Fire Safety

- Following the guidelines of the City of Austin and Travis County 'Ready, Set, Go!' wildland fire action guide, Wild Basin volunteers and staff created a defensible spaces on the Preserve grounds around the Creative Research Center, parking lot, driveway and storage shed.
- Under guidance from Facilities Management at SEU, all fire-sprinklers within the WBCRC were checked and updated. The emergency water storage tank beneath the deck was similarly checked and all components deemed up-to-date and working. Working with the fire department, a new fire panel and updates to the fire system have been

ongoing. The Wild Basin Creative Research Center is currently up to date on fire safety requirements, and SEU continues to work with the fire department to ensure future code compliance.

General

- Since 2009, Securitas has been contracted to unlock and lock the gate at sunrise and sunset, respectively. Stanley Security has continued their contract to provide alarm services and staff notification in the event of an attempted burglary, vandalism or fire. No serious emergencies were reported in FY 2012.

LAND MANAGEMENT

Our vision is to preserve endangered species habitat and to educate students and the general public about the role Wild Basin and the BCP in maintaining habitat integrity and ecosystem services. Together with our partners, we are:

- Managing and restoring a mosaic of habitats indigenous to Wild Basin, including oak-juniper woodlands, riparian corridors, semi-open grasslands and cedar breaks
- Protecting native biodiversity
- Protecting habitat for the federally endangered Golden-cheeked warbler and Black-capped vireo
- Protecting habitats to support threatened and rare plant and animal species
- Controlling non-native and invasive species
- Protecting soil profiles and unique geologic features
- Monitoring water quality relative to watershed inputs, runoff and erosion
- Protecting prehistoric and historic cultural sites
- Managing a trail system that presents the regional flora and fauna, while minimizing impacts to the preserve's biotic community and inherent beauty.

Land Management Committee

Until the merger with St. Edward's University in October 2009, the Committee for Wild Basin Wilderness, Inc. was a registered, non-profit organization dedicated to promoting responsible environmental stewardship through education. At that time, SEU obtained ownership of Wild Basin and assumed its duty to protect and maintain the Basin's urban wilderness, while promoting the importance of environmental education, research, conservation and preservation. The merger with SEU has only further enabled and developed the opportunity for creating such programs and initiatives that will continue serving the fulfillment of this mission.

The Board of Directors of the Committee for Wild Basin Wilderness, Inc. dissolved in October 2009.

Staff

Dr. Monica Swartz – Executive Director, on leave
Dr. Thomas Mitzel – Interim Executive Director
Dr. Allen Hook – Interim Academic Director
Mitch Robinson – Land Manager, Caretaker, Education Coordinator
Kim Johnson – Administrative Coordinator
Sally Scott – Ranger (part-time)

The Land Management Committee, chaired by Wild Basin Land Manager Mitch Robinson, is comprised of former Board members, Travis County staff, and senior volunteers. The Committee advises the land management program by reviewing plans and recommending actions to

proposed changes and new practices that may alter or adversely affect the preserve. The Committee ensures that the future health of Wild Basin is fully considered in all planning decisions and implementations, so that ‘we do no damage.’

Land Management Committee

Sue Anderson
Yates Barreda
Celeste Brancel
Garry Child
Sally Davenport
Rose Farmer
Renee Fields
Robert Hanson
Dr. Allen Hook
Dr. Thomas Mitzel
Mitch Robinson
Monica Swartz
Dick Ward

Programs and Activities

Biological Surveys

1. Golden-cheeked Warbler (*Setophaga chrysoparia*)

During the 2012 nesting season, approximately 50 independent surveys were conducted at Wild Basin by City of Austin BCP staff. The surveys were executed in partnership and according to the protocols of the City of Austin’s Balcones Canyonlands Preserve GCWA Demographic Project. Three GCWA males, who were banded and known to have successfully bred at Wild Basin in 2011, returned to their territories in 2012. Two additional GCWA males, who were banded at Wild Basin as young (SY-second year) birds in 2011, were resighted at Vista Point and Forest Ridge Tracts of the BCP in 2012. Additionally, one unbanded male established a territory, for a total of 4 territorial males (observed a minimum 3 times).

2. Texas Madrone (*Arbutus xalapensis*)

With the assistance of volunteers, we have continued to document Wild Basin’s population of eighteen (18) individual trees. As the only Madrone species in Texas, it represents the easternmost population of this species within the U.S. Though the compounding years of drought have impacted the largest specimens of the population, recruitment of new saplings appear to be successful.

3. Shooting Star (*Dodecatheon meadia*)

In April 2007, Brad Oberle, a graduate student from Washington University in St. Louis, MO performed research on our Shooting Star population. He collected data and tissue

samples under a BCP permit and Wild Basin staff supervision. In January 2008, his research report to Rose Farmer at Travis County Natural Resources indicated that our population may represent a new subspecies or distinct population. A final determination will be forthcoming as the staff looks for future researchers.

Staff and volunteers performed approximately four surveys this spring among areas of known historic populations to no avail.

4. Wintering Bird Survey

From November 2011 – January 2012, twelve bird surveys were conducted to determine how flock composition and habitat use changes over the winter season at Wild Basin.

Together, volunteers Jim O'Donnell, Darrell Hutchinson and Celeste Brancel. Data were collected on bird abundance, species diversity, flock species composition, individual bird's foraging height and tree species occupancy. For a complete report and summary, see Appendix C.

St. Edward's University Research Projects

In its partnership with Travis County, Wild Basin, as part of SEU, is preparing a blanket permit for annual research by SEU professors and students on BCP properties. To date, all SEU classes, projects and research have been conducted under in accordance with the same access provided to the general public, restricting off trail use. An annual blanket permit will expand research opportunities for students and faculty, while ensuring all activities are in accordance Wild Basin's Tier III Land Management Plan and BCP guidelines.

- White-tailed Deer Management – To date, Wild Basin has never performed population management for White-tailed deer. Though no culling was performed in FY 2012, Texas Parks and Wildlife Department authorized a permit for removal of deer at Wild Basin through Travis County's contract with Orion Biological Services. City of Austin has again given permission to discharge firearms within city limits at Wild Basin. Orion reported minimal activity near set-up feeders during late 2011 and early 2012, with zero sightings during culling attempts.

During Spring 2012, 8 SEU students participated in ENSP 4349, Deer Management at Wild Basin. Students designed and conducted independent research projects under the guidance of Associate Professor of Environmental Science and Policy Peter Beck, Wild Basin Director Monica Swartz and Wild Basin Education and Land Management Coordinator Mitch Robinson. The projects examined a wide range of issues related to deer within the Preserve as well as in the surrounding communities. Examples of projects include Impact of White Tailed Deer on Soil Compaction at Wild Basin, Assessing Knowledge and Attitudes towards Deer Management Strategies and A Cost Analysis of Urban Deer Populations in Austin.

The students came out to Wild Basin once a week for the 2 ½ hour course. Some students came out independently on additional days as well to conduct their research.

Guest speakers from community organizations such as Deer Austin, Northwest Austin Community Association and the City of Austin came to Wild Basin to discuss how the role of their organizations concerning deer management. Students presented their research findings to the community organizations at Wild Basin, to the SEU community during Earth Week and at a meeting of the Northwest Austin Community Association. Two students, Janelle Sylvester and Kristina Schenck, won the BSS student research award for their projects.

- Black-capped Vireo Habitat Modification Experiment – The Black-capped Vireo Habitat Modification adaptive management experiment seeks to improve methods of habitat manipulation to support endangered Black-capped vireos and other organisms. Contractors funded by City of Austin, with in-kind support from Travis County, City of Austin, and Wild Basin staff and volunteers, have cleared vegetation on City land and laid mulch socks, which have been supplemented with soil treatments and are currently be monitored by SEU students and professional staff. SEU biology and bioinformatics students have begun sampling terrestrial invertebrates and soil microbial fauna. Terrestrial herpetofauna, and plant assemblage and structure are proposed for future sampling in spring 2013 in conjunction with an approximately 10 acre deer enclosure being installed in the vicinity.

St. Edward's University Educational Projects

The Wild Basin Preserve Land Management Goals document includes the statement “Manage the preserve in accordance with an education program that illustrates and interprets BCP flora and fauna.” Given the diversity of programs offered at St. Edward's University, it is imperative that the educational programs reach beyond the school of natural sciences, across all areas of pedagogy within the academic and public community to ensure that a well-rounded view of Wild Basin is afforded to the community. The following educational programs and courses help to fulfill this mission, and help to promote the importance of Wild Basin to a plethora of academic, and community groups.

The following listings of courses were either taught fully at Wild Basin, or utilized the preserve for part of their instruction during the summer and fall of 2012.

Summer 2012- classes taught at the Wild Basin

ARTS 3333 Drawing from Nature(Sonya Menges);

Fall 2012- classes taught at the Wild Basin

ARTS 4399 Art in Public Spaces (Laura Holis);

PHCO 3322 Styles & Themes (Portrait), (Bill Kennedy).

CNEL 6335 Special Topics, Mindfulness (Vagdevi Meunier)

A-BIOL 3345 Advanced Topics in Biology (Judith Walters), (New College)

Fall 2012 – classes that utilized the Wild Basin preserve for instruction

BIOL 2420 Entomology lab (Kendra Abbott)
BIOL 2428 Vertebrate Biology (Donelle Robinson)
BIOL 4157 Research (Allan Hook)
BINF 4157 Research (Charles Hauser)
COSC 4157 Research (Laura Baker)
MSEM 6301 Population Ecology (Bill Quinn)

Spring 2013 – classes scheduled to be taught at the Wild Basin

A-BIOL 3345 Advanced Topics in Biology, (Judith Walther)
ARTS 3399 Topics in Art (Wild Basin Wanderings), (Alexandra Robinson)
BIOL 3245 Field Biology (Kendra Abbott)
ENSP 4349 Topics – Environmental Sci/Policy (Wildlife Management at Wild Basin),
(Peter Beck)
PHCO 3322 Styles & Themes (Wild Basin Project), (William Kenedy)

Spring 2013 – classes that will utilize Wild Basin

BIOL 1108 – Organisms & Populations Lab (10 sections)
BIOL 2124 Plant Biology Lab (David Johnson)
BIOL 4157 Population Biology & Ecology Lab (William Quinn)
FRSC 3321 Crime Scene Investigation II (Casie Parish)

Courses in Development for teaching at the Wild Basin

Photo Communications & Graphic Design: Ipad application for a trail guide for Wild Basin (Joe Vitone, Kim Garza);

Every course taught at Wild Basin, or utilizing the preserve as part of a course instruction, begins its pedagogical journey with students receiving a history of Wild Basin, and what it means to study and maintain a preserve. This introduction is important for both the science, and non-science courses, and students integrate these philosophies into each of their projects. The “Art in Public Places” course was designed to have students utilize direct input from a group of Wild Basin neighbors in an effort to design possible alterations for a gate located at the rear entrance to the preserve. This project is ongoing, and may lead to several more courses, which is a great utilization of St. Edward’s courses being used for direct outreach to, and education of, the general public. We are hoping to have more projects of this nature in the coming semesters.

Habitat Maintenance and Restoration

Land management activities use only native *Ashe juniper* for trail/erosion bars and native limestone for boulders, steps and gravel where needed on or off the preserve’s trails. In necessary situations, crushed limestone is purchased and brought in from a rock yard. No old-growth junipers or other native hardwoods are cut down in the preserve for such uses. All trail maintenance and other land management activities avoid impact or disturbance to cultural and archaeological resources.

Trail Maintenance

- General – Nearly all 3.2 miles of trails in the preserve received maintenance. (No trail maintenance was performed during the GCWA breeding season along trail sections where the warblers were sighted). Pruning was completed on all of the trails for accessibility, as well as around the building for fire prevention.
- Signage – All trail signs and interpretive markers were improved or replaced as needed.
- Pond Trail remained closed to the general public for the sixth year due to silting problems at the retention pond. Though it will continue to be closed, the Land Management Committee voted to keep it pruned so neighbors at the rear entrance and visitors on guided hikes may still access the area safely.

Habitat Restoration

- General – Preserve staff and volunteers continued to aggressively remove invasive, non-native species, such as Japanese honeysuckle, bastard cabbage, Chinese tallow, Chinaberry, *Pyracantha coccinea*, *Ligustrum sp.*, *Nandina domestica*, King Ranch bluestem, Johnson grass, *Vitex agnus-castur*, and Georgia cane, among others. Land manager Mitch Robinson, a certified pesticide applicator, oversaw volunteers and staff during pesticide application as they continued to suppress the few persistent invasive species. Members of the Native Plant Society of Texas Austin chapter also assisted in these efforts.
- Bray Project
- Deer Enclosures – In consultation with Texas Parks & Wildlife and Travis County biologists, Wild Basin staff continued installing “deer enclosures” of hog wire cages around stands of native trees and shrubs (e.g. Shin oak, Texas red oak, Escarpment black cherry, Texas persimmon, Coralroot orchids and Twisted-leaf yucca) to prohibit excessive browse by deer and other animals.

Staff Training

- SXSW Eco Conference – In October 2011, staff attended the 1st annual SXSW Eco Conference in Austin, along with students and faculty from SEU.
- Rigging Course– In February, land manager Mitch Robinson and volunteer Garry Child attended a free, 8-hour training workshop on ‘rigging’ in a wilderness environment. Using heavy-duty hoists, cables, slings and other related gear, rigging allows safe maneuvering of large rocks and/or trees for trail building in wilderness scenarios where motorized devices are not an option or prohibited. Paul Stuffel, a field coordinator for Environmental Corps of American Youth Works, led the workshop with staff members near the Homedale Access to the Barton Creek Greenbelt.
- CRWN Monitor – In August, Mitch completed training as a volunteer monitor for the Lower Colorado River Authority’s (LCRA) Colorado River Watch Network (CRWN), and is certified as a water quality monitor under the LCRA. Monthly sampling for pH,

dissolved oxygen, temperatures, nitrates and conductivity are occurring on Bee Creek and hope to be implemented into SEU curriculums with a mimicked study at Blunn Creek near SEU's main campus.

Volunteers

Volunteers donated over 1,058 hours of their time to Wild Basin's land management efforts in FY12. They contributed to various programs and activities, including trail guides, biological surveys, trail maintenance, and habitat restoration.

Visitation

In FY 2012, Wild Basin staff attempted to track the number of self-guided visitors, using two trailhead sign-in boxes located near the EEC. Although an incomplete tally, this baseline data recorded 2,642 recorded during the fiscal year (1,874 adults and 768 children).

Affiliations and Publications

Wild Basin Wilderness Preserve in FY12 continued to develop relationships and partnerships with like-minded groups and driven individuals. These relationships and partnerships are pursued to strengthen the preserve's land management and education programs into perpetuity. They include, but are not limited to, the following:

Austin Astronomical Society
Austin Butterfly Forum
Austin Gem & Mineral Society
Austin Geological Society
Austin Green Energy Group
Balcones Canyonlands Conservation Plan
Balcones Canyonlands Preserve Land Managers
Balcones Canyonlands National Wildlife Refuge
Capital Area Council, Boy Scouts of America
Capital Area Master Naturalists
City of Austin Water Utility Wildland Conservation Division
GenSuite LLC
Girl Scouts of America, Lone Star Council
Lighthouse Solar
Native Plant Society of Texas, Austin Chapter
Omega Delta Phi Fraternity, University of Texas
REI
Plateau Wildlife Management
Rob Roy Homeowners Association
Rob Roy on the Canyon Homeowners Association
Tau Beta Phi Engineering Society, University of Texas
Texas Commission for Environmental Quality

Texas Forest Service
Texas Ornithological Society
Texas Parks & Wildlife
Travis Audubon Society
Travis County Transportation & Natural Resources
Tuktawa Foundation
University of Texas Archaeological Research Laboratory
University of Texas Bureau of Economic Geology
University of Texas Nonvertebrate Paleontology Laboratory
Westlake Chamber of Commerce
Westlake Hills City Inspector
Westlake Hills Fire Department
Westlake Picayune newspaper
Whole Earth Provision Company

EDUCATIONAL & OUTREACH PROGRAMS

Wild Basin has historically served as a readily accessible wilderness excursion for local adolescent and school groups, as well as family and group hikes. Since the St. Edward's University merger, trail fees for volunteer-led guided hikes are no longer necessary. All use and services of Wild Basin are solely donation based. Though all previous education programs are active and ongoing, staff efforts during FY2012 were re-oriented toward furthering education and research opportunities for SEU faculty and students, and our BCP partners.

Environmental Education & Interpretation

- School & Group Tours – Approximately 1,220 adolescents, including students from local schools and community groups, attended education programs at Wild Basin. Group size limits are restricted and capped at a maximum of 40 students per visit.
- Family & Public Programs – Local children and families attended several public programs hosted by Wild Basin in 2012 including Moonlighting, Stargazing, Flintknapping, Indian Lore and Second Saturday Guided Hikes. The Moonlighting and Stargazing tours were made possible through the volunteer efforts of the Austin Astronomical Society. Jewel Pollard, local Austin natural historian, led the Flintknapping and Indian Lore. John Barr, local native landscaper and volunteer led the Second Saturday Hikes.
- Sierra Club Night Hikes – During several full moons this year, Wild Basin hosted free night hikes that were open to the public and organized by the Austin chapter of the Sierra Club.
- Wildlife Management – Twice this year, Wild Basin hosted information sessions for private land owners on wildlife management and conservation easements, presented by local consulting group Plateau Land Wildlife and Management.

Public Outreach

- Balcones Canyonlands Preserve (BCP) – Again in FY12, Wild Basin staff attended and participated in quarterly meetings of the BCP Land Managers group. Several meetings were hosted at Wild Basin and more are scheduled for 2013.
- Hike and Lecture Series 07/09 BCP Hike and Lecture Series- Kid Friendly Snake Lecture Hosted by Travis County and open to the public, Wild Basin held several hikes including a kid friendly snake lecture. Travis DuLuc professor from UT gave a presentation on snakes followed by a guided hike by Wild Basin volunteers.
- Bat Conservation International (BCI) – BCI is committed to informing the public about bat conservation, similarly offering its employees and resources to various education events, such as Austin Museum Day. Wild Basin furthered its relationship with BCI by hosting their week long annual staff retreat during August and have since offered and allowed meeting space for additional BCI.

- Capital Area Master Naturalists (CAMN) – CAMN held their certification ceremony in January at Wild Basin, as well as part of their 2012 class’s geology and soils section in February. The same activities are scheduled at Wild Basin in 2013.
- Native Plant Society of Texas, Austin chapter – Again in FY12, Wild Basin hosted the regular monthly meetings of the Austin chapter of this statewide organization, including their holiday party.
- Expedition School – Wild Basin hosted several wilderness first aid courses in the spring that were run by the Expedition School.

Special Programs/Events

- Lion’s Club International Students – For the second year in a row, Wild Basin hosted two dozen international students who were traveling as part of the Lion’s Club exchange program. Wild Basin volunteer, Lion’s club member, and retired geologist Wayne Orłowski gave a lecture on how geology connects the world, with an overview of TX geological history in a world context. Land Manager, Mitch Robinson, gave a lecture on urban-wildland interfaces and the history and role of the BCP in Austin. Volunteer trail guides then led the students on a guided hike.
- Geology Field Trips – Wild Basin sponsored two Geology trips in 2012 which were funded through a gift from Conoco Phillips and led by retired Conoco employee and Wild Basin volunteer Wayne Orłowski. The spring trip was a tour of the Llano uplift in Central Texas, while the fall trip focused on geologic features within the Austin area. Both trips were open to University students and staff, as well as Wild Basin volunteers.

St. Edward’s University Events

- Art and the Science of Love – In February, SEU Assistant Professor of Counseling, Vagdevi V. Meunier, Psy.D., hosted a weekend workshop for couples at the WBCRC. The Art and Science of Love workshop was based on the scientific findings of John Gottman, Ph.D., who studied over 3000 couples in three decades, the workshop is designed to strengthen your relationship. Vagdevi was joined by two SEU students and two SEU alumni who assisted in organizing the event.
- Yoga Retreats - Monica Frazer, from St. Edward’s, held her semester Yoga retreat at Wild Basin again this October. She plans to continue this tradition each semester.
- Natural History Course – Judy Walther, former Wild Basin Education Director, taught a Natural History course for St. Edward’s New College program. The course, Advanced Topics in Biology, will fulfill the science requirement for non-science majors, and will take place every other Saturday at the Basin. Paul Walter, physics and freshman science professor at St. Edward’s, attended the course and will be teaching a similar one next year for Freshman.
- FIRE Program – In August, SEU professor Mike Scioli and Mitch Robinson hosted a freshman group from the FIRE Program, as part of SEU’s Living and Learning Community. Mitch gave them a history of Wild Basin and land management issues over the Westlake Peninsula and the Texas Hill Country. The students participated in an

experiment determining effects of soil compaction on water percolation in on-trail vs. off trail soils. Mitch then led the group on short hike and explained ongoing research projects at the Preserve.

Affiliations & Publications

Wild Basin and SEU's Marketing staff continued writing Wild Basin's column in our local newspaper, the *Westlake Picayune's* "Distinct" section once a month, as well as our quarterly *Wild Ways* newsletter.

A Mother's Choice Child Development and Learning Center

Association of Nature Centers of America (ANCA)

Austin Astronomical Society

Austin Cactus & Succulent Society

Austin Discovery School

Austin Independent School District

Austin Montessori School

Austin Museum Partnership

Bat Conservation International

Bastrop Independent School District

Big Brothers Big Sisters

Boy Scouts

Camp Fire USA Balcones Council

Capital Area Council, Boy Scouts of America

City of Austin Wildlands Conservation Division

Communities in Schools

Conoco Phillips

Eanes Independent School District

Eden Park Academy

Expedition School

Kids Are Kids

Lake Travis Independent School District

Lifetime Learning

Lion's Club of Austin

Lupine Lane Preschool

Girl Scouts of Central Texas

Good Sheppard Episcopal

Moody Foundation

Nan Clayton Elementary

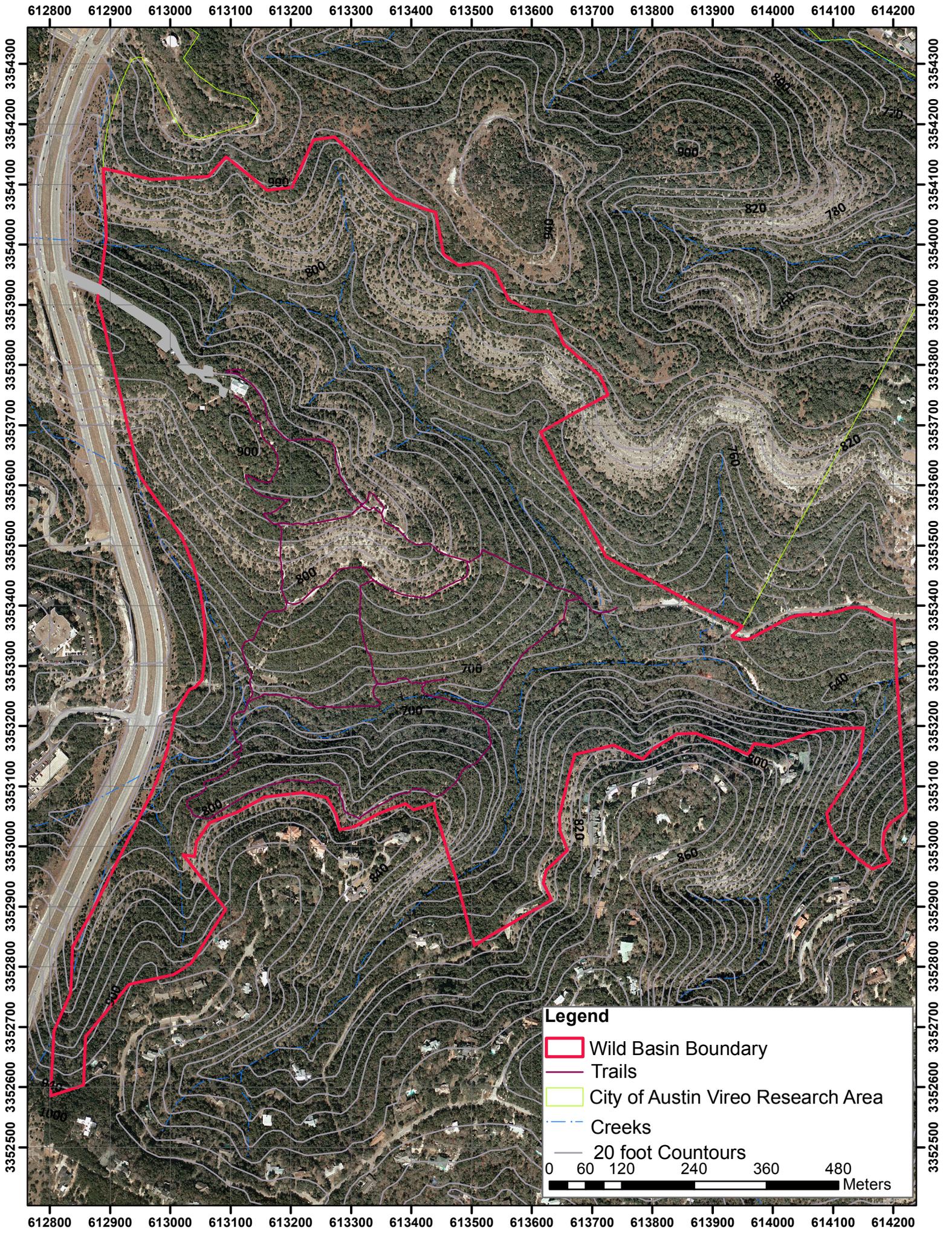
Natural Child Learning Community

Nature's Way Preschool

Olive Tree Summer Camp
Primrose School at Four Points
Promiseland Learning Center
Saint Louise House, St. Austin Catholic Parish
She Knows,
Stepping Stone School
Summit Christian Academy
Texas School for the Deaf

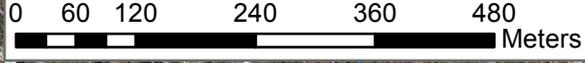
APPENDIX

Map of Wild Basin Wilderness Preserve
Trail Map of Wild Basin Wilderness Preserve
Summary of Winter Bird Survey



Legend

- Wild Basin Boundary
- Trails
- City of Austin Vireo Research Area
- Creeks
- 20 foot Countours



Wild Basin

WILDERNESS PRESERVE



ST. EDWARD'S
UNIVERSITY

Creative Research Center

Arroyo Vista Loop

Triknee

Laurel

Ledge

Possum

Falls

Woodland

Creek

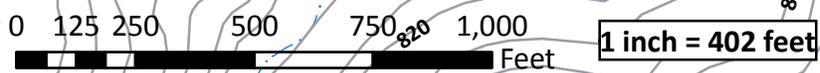
Creek

Yaupon

-  Waterfall
-  Trails
-  Parking Lot
-  Creeks
-  Benches
-  Overlook
-  20 ft. Contours

Trails	mileage
Arroyo Vista	.5
Laurel	.1
Triknee	.15
Ledge	.22
Falls	.15
Woodland	.12
Creek	.5
Yaupon	.6

Emergency Numbers
Wild Basin
512-327-7622
Travis County Sheriff
512-974-0829 x 3



Winter Foraging Flock Bird Study

From November – January 2011-12, Wild Basin volunteers Jim O'Donnell, Darrell Hutchinson, and Celeste Brancel conducted 12 bird surveys to determine how flock composition and habitat use changes over the winter season at Wild Basin. Together they detected over 2200 individual birds and 47 different species.

Bird foraging behavior changes during the year as birds go from summer breeding through fall migration to surviving the North American winter. Some species, like Wilson's Warbler, only pass through Wild Basin en route to Central America. Other northern breeders migrate here to spend the entire winter in the oak-juniper woodlands of Central Texas. American Robins and Cedar Waxwings were present in huge numbers this winter, forming single species flocks that fed mostly on juniper berries. American and Lesser Goldfinches were frequently observed along Bee Creek foraging on giant Sycamores, although once the seed crop was consumed they appeared to move on. Central Texas' famous wintering sparrow flocks were poorly represented this year at Wild Basin. Field, Fox, Song, Vespers, and Chipping Sparrows were all detected but failed to persist, perhaps due to diminished resources as a result of the drought or lack of appropriate grassland and wetlands habitat in general at Wild Basin.

Many of our year round resident birds also change their foraging behavior seasonally as food resources shift. During summer, Tufted Titmice and Carolina Chickadees break up into breeding pairs to raise their young. Come fall and winter, family groups coalesce to form larger foraging flocks that are often joined by newly arrived winter residents such as Yellow-rumped Warblers, Ruby and Golden-crowned Kinglets. Flocking confers an advantage to all members. Together the birds have greater vigilance against predators like Coopers Hawk and their collective activity can help flush hard to find insect prey.

Data were collected on bird abundance, species diversity, flock species composition, individual bird's foraging height and tree species occupancy. By inputting data for GIS analysis, St. Edward's University researchers can track changes in foraging behavior across time and space to determine how birds are using our oak-juniper woodland habitat.

UID	DATE	TIME	LOCATION	STATUS	NUMBER	SPECIES
1	11/4/2011		815 parking lot	F	2	NOCA
2	11/4/2011		815 parking lot	F	2	TUTI
3	11/4/2011		815 parking lot	F	2	RCKI
4	11/4/2011		815 parking lot	U	1	BLJA
5	11/4/2011		815 parking lot	F	1	CARW
6	11/4/2011		815 parking lot	F	30	WWDO
7	11/4/2011		815 parking lot	U	1	WESJ
8	11/4/2011		827 TRAILHEAD	F	15	AMRO
9	11/4/2011		827 TRAILHEAD	F	3	GTGR
10	11/4/2011		827 TRAILHEAD	U	1	BLJA
11	11/4/2011		835 ARROYO	F	1	TUTI
12	11/4/2011		835 ARROYO	F	1	TUTI
13	11/4/2011		835 ARROYO	F	2	CACH
14	11/4/2011		835 ARROYO	F	1	RCKI
15	11/4/2011		835 ARROYO	F	1	RCKI
16	11/4/2011		835 ARROYO	F	1	RCKI
17	11/4/2011		835 ARROYO	F	1	RCKI
18	11/4/2011		835 ARROYO	F	1	TUTI
19	11/4/2011		835 ARROYO	F	2	HOFI
20	11/4/2011		905 ARROYO/TRICKNEE	F	1	CHSP
21	11/4/2011		905 ARROYO/TRICKNEE	F	1	CHSP
22	11/4/2011		905 ARROYO/TRICKNEE	F	10	HOFI
23	11/4/2011		905 ARROYO/TRICKNEE	S	1	VESP
24	11/4/2011		905 ARROYO/TRICKNEE	F	1	SPTO
25	11/4/2011		905 ARROYO/TRICKNEE	F	2	RCKI
26	11/4/2011		924 POND	F	1	RCKI
27	11/4/2011		924 POND	U	1	BLJA
28	11/4/2011		924 POND	S	1	GHOW
29	11/4/2011		940 POND	F	1	GCKI
30	11/4/2011		940 POND	F	1	GCKI
31	11/4/2011		940 POND	U	1	AMRO
32	11/4/2011		940 POND	F	1	NOCA
33	11/4/2011		940 POND	F	1	NOCA
34	11/4/2011		956 ELM GROVE	F	4	TUTI
35	11/4/2011		956 ELM GROVE	F	1	RCKI
36	11/4/2011		956 ELM GROVE	F	2	NOCA
37	11/4/2011		956 ELM GROVE	F	1	UNSP
38	11/4/2011		956 ELM GROVE	U	1	BLJA
39	11/4/2011		956 ELM GROVE	F	2	HETH
40	11/4/2011		956 ELM GROVE	F	1	NOFL
41	11/4/2011		956 ELM GROVE	F	1	EAPH
42	11/4/2011		1020 ELM GROVE	F	1	RCKI
43	11/4/2011		1020 ELM GROVE	F	1	RCKI
44	11/4/2011		1020 ELM GROVE	F	2	RCKI
45	11/4/2011		1020 ELM GROVE	F	2	NOCA
46	11/4/2011		1020 ELM GROVE	F	1	TUTI
47	11/4/2011		1020 ELM GROVE	F	1	TUTI
48	11/4/2011		1020 ELM GROVE	F	1	LBWO

49	11/4/2011	1020 ELM GROVE	F	1 HETH
50	11/4/2011	1020 BEE CREEK*	F	1 RCKI
51	11/4/2011	1020 BEE CREEK*	F	1 RCKI
52	11/4/2011	1020 BEE CREEK*	F	1 RCKI
53	11/4/2011	1020 BEE CREEK*	F	1 RCKI
54	11/4/2011	1020 BEE CREEK*	F	2 TUTI
55	11/4/2011	1020 BEE CREEK*	U	1 BLJA
56	11/4/2011	1049 WATERFALL	F	1 CACH
57	11/4/2011	1049 WATERFALL	F	1 NOCA
58	11/4/2011	1049 WATERFALL	F	1 HETH
59	11/4/2011	1049 WATERFALL	F	1 LEGO
60	11/4/2011	1049 WATERFALL	F	1 CACH
61	11/4/2011	1049 WATERFALL	F	1 NOCA
62	11/4/2011	1049 WATERFALL	F	1 HETH
63	11/4/2011	1049 WATERFALL	F	1 LEGO
64	11/4/2011	1049 WATERFALL	F	2 TUTI
65	11/4/2011	1109 LAUREL/LEDGE	F	1 RCKI
66	11/4/2011	1109 LAUREL/LEDGE	F	3 RCKI
67	11/4/2011	1109 LAUREL/LEDGE	F	1 HETH
68	11/11/2011	827 ROAD	F	1 CHSP
69	11/11/2011	827 ROAD	F	1 CHSP
70	11/11/2011	830 PARKING LOT	F	1 RCKI
71	11/11/2011	830 PARKING LOT	F	1 RCKI
72	11/11/2011	830 PARKING LOT	F	1 BEWR
73	11/11/2011	830 PARKING LOT	F	1 BEWR
74	11/11/2011	830 PARKING LOT	F	1 WESJ
75	11/11/2011	830 PARKING LOT	F	1 WESJ
76	11/11/2011	830 PARKING LOT	S	1 GTGR
77	11/11/2011	830 PARKING LOT	F	1 AMRO
78	11/11/2011	830 PARKING LOT	F	2 GCKI
79	11/11/2011	830 PARKING LOT	F	1 DEJU
80	11/11/2011	830 PARKING LOT	S	1 CORA
81	11/11/2011	830 PARKING LOT	S	1 CORA
82	11/11/2011	830 PARKING LOT	F	1 WTSP
83	11/11/2011	850 UPPER ARROYO	S	1 AMRO
84	11/11/2011	850 UPPER ARROYO	F	1 RCKI
85	11/11/2011	859 UPPER ARROYO	S	1 RCKI
86	11/11/2011	905 LAUREL/ARROYO	S	1 GTGR
87	11/11/2011	910 LAUREL/LEDGE	F	1 RCKI
88	11/11/2011	910 LAUREL/LEDGE	F	1 TUTI
89	11/11/2011	923 LOWER LAUREL	F	2 HOFI
90	11/11/2011	923 LOWER LAUREL	F	1 RCKI
91	11/11/2011	923 LOWER LAUREL	F	1 RCKI
92	11/11/2011	923 LOWER LAUREL	F	1 RCKI
93	11/11/2011	923 LOWER LAUREL	F	1 TUTI
94	11/11/2011	923 LOWER LAUREL	F	1 TUTI
95	11/11/2011	923 LOWER LAUREL	F	1 GCKI
96	11/11/2011	923 LOWER LAUREL	F	1 GCKI
97	11/11/2011	940 WATERFALL	F	1 BLJA

98	11/11/2011	940 WATERFALL	F	1 GCKI
99	11/11/2011	940 WATERFALL	F	1 GCKI
100	11/11/2011	940 WATERFALL	F	1 GCKI
101	11/11/2011	940 WATERFALL	F	1 GCKI
102	11/11/2011	940 WATERFALL	F	1 CARW
103	11/11/2011	940 WATERFALL	F	1 NOCA
104	11/11/2011	940 WATERFALL	F	1 NOCA
105	11/11/2011	940 WATERFALL	F	1 RCKI
106	11/11/2011	940 WATERFALL	F	1 RCKI
107	11/11/2011	940 WATERFALL	F	2 RCKI
108	11/11/2011	940 WATERFALL	F	1 TUTI
109	11/11/2011	940 WATERFALL	F	1 TUTI
110	11/11/2011	940 WATERFALL	F	2 HETH
111	11/11/2011	940 WATERFALL	F	2 LEGO
112	11/11/2011	1005 BEE CREEK 2X	F	1 RCKI
113	11/11/2011	1005 BEE CREEK 2X	F	1 RCKI
114	11/11/2011	1005 BEE CREEK 2X	F	2 GCKI
115	11/11/2011	1005 BEE CREEK 2X	F	1 NOCA
116	11/11/2011	1030 BEE CREEK 1X	S	1 WIWR
117	11/11/2011	1030 BEE CREEK 1X	F	1 TUTI
118	11/11/2011	1030 BEE CREEK 1X	F	1 TUTI
119	11/11/2011	1030 BEE CREEK 1X	F	2 CACH
120	11/11/2011	1030 BEE CREEK 1X	F	1 RCKI
121	11/11/2011	1030 BEE CREEK 1X	F	1 RCKI
122	11/11/2011	1030 BEE CREEK 1X	F	8 RCKI
123	11/11/2011	1030 BEE CREEK 1X	F	1 GCKI
124	11/11/2011	1030 BEE CREEK 1X	F	1 GCKI
125	11/11/2011	1030 BEE CREEK 1X	F	1 YRWA
126	11/11/2011	1050 ELM GROVE	S	1 LBWO
127	11/11/2011	1050 ELM GROVE	S	1 RCKI
128	11/11/2011	1050 ELM GROVE	U	2 BLJA
129	11/11/2011	1115 POND	F	2 SOSP
130	11/11/2011	1115 POND	S	1 LBWO
131	11/11/2011	1115 POND	F	1 HETH
132	11/11/2011	1115 POND	F	1 RCKI
133	11/11/2011	1115 POND	F	1 FOSP
134	11/11/2011	1115 POND	F	4 HOFI
135	11/11/2011	1115 POND	F	1 SPTO
136	11/11/2011	1155 LOWER ARROYO	S	1 GCKI
137	11/18/2011	745 PARKING LOT	F	1 FISP
138	11/18/2011	745 PARKING LOT	F	1 FISP
139	11/18/2011	745 PARKING LOT	F	2 FISP
140	11/18/2011	745 PARKING LOT	F	1 RCKI
141	11/18/2011	745 PARKING LOT	F	1 RCKI
142	11/18/2011	745 PARKING LOT	F	2 RCKI
143	11/18/2011	745 PARKING LOT	F	1 HETH
144	11/18/2011	745 PARKING LOT	S	1 AMRO
145	11/18/2011	745 PARKING LOT	F	1 WESJ
146	11/18/2011	745 PARKING LOT	F	1 WESJ

147	11/18/2011	745 PARKING LOT	F	4 WWDO
148	11/18/2011	745 PARKING LOT	F	2 HOFI
149	11/18/2011	745 PARKING LOT	F	2 CARW
150	11/18/2011	745 PARKING LOT	F	1 GCKI
151	11/18/2011	745 PARKING LOT	F	1 GCKI
152	11/18/2011	745 PARKING LOT	F	4 GCKI
153	11/18/2011	745 PARKING LOT	F	2 TUTI
154	11/18/2011	745 PARKING LOT	F	1 CACH
155	11/18/2011	745 PARKING LOT	F	1 CACH
156	11/18/2011	745 PARKING LOT	F	1 YRWA
157	11/18/2011	745 PARKING LOT	F	1 NOCA
158	11/18/2011	745 PARKING LOT	F	1 NOCA
159	11/18/2011	835 ARROYO/TRICKNEE	S	1 WWDO
160	11/18/2011	835 ARROYO/TRICKNEE	S	1 GRRO
161	11/18/2011	835 ARROYO/TRICKNEE	S	1 UNSP
162	11/18/2011	835 ARROYO/TRICKNEE	S	1 AMRO
163	11/18/2011	835 ARROYO/TRICKNEE	S	1 BLJA
164	11/18/2011	855 POSSUM	S	1 AMRO
165	11/18/2011	855 POSSUM	U	2 BLJA
166	11/18/2011	855 POSSUM	S	1 RCKI
167	11/18/2011	855 POSSUM	S	1 HETH
168	11/18/2011	910 POND	F	1 HETH
169	11/18/2011	910 POND	F	1 NOCA
170	11/18/2011	910 POND	F	1 NOCA
171	11/18/2011	910 POND	F	1 NOCA
172	11/18/2011	910 POND	F	1 RCKI
173	11/18/2011	910 POND	F	1 FOSP
174	11/18/2011	910 POND	F	2 BLJA
175	11/18/2011	910 POND	F	1 SPTO
176	11/18/2011	910 POND	F	1 BLJA
177	11/18/2011	910 POND	F	1 BLJA
178	11/18/2011	910 POND	F	1 SPTO
179	11/18/2011	945 POND	F	1 EAPH
180	11/18/2011	945 POND	F	1 WTSP
181	11/18/2011	945 POND	F	1 WTSP
182	11/18/2011	945 POND	F	1 NOFL
183	11/18/2011	945 POND	F	1 OCWA
184	11/18/2011	945 POND	F	1 CARW
185	11/18/2011	945 POND	F	35 AMRO
186	11/18/2011	945 POND	F	1 RCKI
187	11/18/2011	1010 POND	F	1 RCKI
188	11/18/2011	1010 POND	F	3 AMRO
189	11/18/2011	1025 BEE CREEK 1X	S	1 RCKI
190	11/18/2011	1025 BEE CREEK 1X	S	1 TUVU
191	11/18/2011	1035 BEE CREEK 2X	F	1 NOCA
192	11/18/2011	1035 BEE CREEK 2X	F	1 YRWA
193	11/18/2011	1035 BEE CREEK 2X	F	1 YRWA
194	11/18/2011	1035 BEE CREEK 2X	F	1 YRWA
195	11/18/2011	1035 BEE CREEK 2X	F	1 YRWA

196	11/18/2011	1035 BEE CREEK 2X	F	1 RCKI
197	11/18/2011	1110 LAUREL/LEDGE	F	3 BLVU
198	11/25/2011	740 PARKING LOT	F	2 TUTI
199	11/25/2011	750 PARKING LOT	F	27 AMRO
200	11/25/2011	750 PARKING LOT	F	15 AMRO
201	11/25/2011	800 PARKING LOT	S	1 RCKI
202	11/25/2011	800 PARKING LOT	S	1 LEGO
203	11/25/2011	800 PARKING LOT	U	1 CORA
204	11/25/2011	808 UPPER ARROYO	F	14 AMRO
205	11/25/2011	808 UPPER ARROYO	F	8 CEWA
206	11/25/2011	814 ARROYO/LAUREL	S	1 WWDO
207	11/25/2011	818 UPPER LAUREL	F	2 DEJU
208	11/25/2011	825 LEDGE	S	1 WWDO
209	11/25/2011	825 LEDGE	S	1 BEWR
210	11/25/2011	825 LEDGE	S	1 RCKI
211	11/25/2011	825 LEDGE	F	2 RCSP
212	11/25/2011	825 LEDGE	S	1 BLJA
213	11/25/2011	825 LEDGE	S	1 WESJ
214	11/25/2011	850 LAUREL/BEE	F	1 OCWA
215	11/25/2011	850 LAUREL/BEE	F	1 OCWA
216	11/25/2011	850 LAUREL/BEE	F	1 OCWA
217	11/25/2011	850 LAUREL/BEE	F	1 YRWA
218	11/25/2011	850 LAUREL/BEE	F	1 YRWA
219	11/25/2011	850 LAUREL/BEE	F	1 YRWA
220	11/25/2011	850 LAUREL/BEE	F	1 YRWA
221	11/25/2011	850 LAUREL/BEE	F	1 YRWA
222	11/25/2011	850 LAUREL/BEE	F	1 YRWA
223	11/25/2011	850 LAUREL/BEE	F	2 YRWA
224	11/25/2011	850 LAUREL/BEE	F	2 HETH
225	11/25/2011	850 LAUREL/BEE	F	1 CACH
226	11/25/2011	850 LAUREL/BEE	F	1 CACH
227	11/25/2011	850 LAUREL/BEE	F	1 CACH
228	11/25/2011	850 LAUREL/BEE	F	1 CACH
229	11/25/2011	850 LAUREL/BEE	F	1 TUTI
230	11/25/2011	850 LAUREL/BEE	F	1 TUTI
231	11/25/2011	850 LAUREL/BEE	F	2 TUTI
232	11/25/2011	850 LAUREL/BEE	F	2 NOCA
233	11/25/2011	850 LAUREL/BEE	F	4 LEGO
234	11/25/2011	850 LAUREL/BEE	F	1 GCKI
235	11/25/2011	850 LAUREL/BEE	F	1 GCKI
236	11/25/2011	850 LAUREL/BEE	F	2 GCKI
237	11/25/2011	850 LAUREL/BEE	F	1 RCKI
238	11/25/2011	850 LAUREL/BEE	F	1 RCKI
239	11/25/2011	850 LAUREL/BEE	F	2 RCKI
240	11/25/2011	900 WATERFALL	F	2 NOCA
241	11/25/2011	900 WATERFALL	F	1 RCKI
242	11/25/2011	900 WATERFALL	F	1 GCKI
243	11/25/2011	920 BEE/WOODLAND	F	1 RCKI
244	11/25/2011	920 BEE/WOODLAND	F	1 RCKI

245	11/25/2011	920 BEE/WOODLAND	F	5 YRWA
246	11/25/2011	920 BEE/WOODLAND	F	1 OCWA
247	11/25/2011	920 BEE/WOODLAND	F	2 TUTI
248	11/25/2011	920 BEE/WOODLAND	F	2 TUTI
249	11/25/2011	920 BEE/WOODLAND	F	1 GCKI
250	11/25/2011	920 BEE/WOODLAND	F	1 RCKI
251	11/25/2011	935 BEE CREEK 2X	F	2 HETH
252	11/25/2011	940 ELM GROVE	F	1 BLJA
253	11/25/2011	940 ELM GROVE	F	2 AMRO
254	11/25/2011	940 ELM GROVE	F	4 LEGO
255	11/25/2011	940 ELM GROVE	F	2 RCKI
256	11/25/2011	940 ELM GROVE	F	3 GCKI
257	11/25/2011	940 ELM GROVE	F	1 NOCA
258	11/25/2011	940 ELM GROVE	F	1 NOCA
259	11/25/2011	940 ELM GROVE	F	1 HETH
260	11/25/2011	940 ELM GROVE	F	1 CARW
261	11/25/2011	1000 POND	F	1 NOCA
262	11/25/2011	1000 POND	F	1 NOCA
263	11/25/2011	1000 POND	F	1 NOCA
264	11/25/2011	1000 POND	F	1 NOCA
265	11/25/2011	1000 POND	F	1 RCKI
266	11/25/2011	1000 POND	F	1 RCKI
267	11/25/2011	1000 POND	F	1 BLJA
268	11/25/2011	1000 POND	F	1 BLJA
269	11/25/2011	1000 POND	F	1 CARW
270	11/25/2011	1000 POND	F	1 CARW
271	11/25/2011	1000 POND	F	1 LBWO
272	11/25/2011	1000 POND	F	1 YRWA
273	11/25/2011	1000 POND	F	1 YRWA
274	11/25/2011	1000 POND	F	1 SPTO
275	11/25/2011	1000 POND	F	1 SPTO
276	11/25/2011	1000 POND	F	1 SPTO
277	11/25/2011	1000 POND	F	1 DEJU
278	11/25/2011	1000 POND	F	1 DEJU
279	11/25/2011	1000 POND	F	1 WTSP
280	11/25/2011	1000 POND	F	1 FISP
281	11/25/2011	1000 POND	F	2 CACH
282	11/25/2011	1100 TRICKNEE/LEDGE	S	1 AMRO
283	11/25/2011	1100 TRICKNEE/LEDGE	S	1 RCKI
284	11/25/2011	1100 TRICKNEE/LEDGE	S	1 TUVU
285	11/25/2011	1110 ARROYO	S	1 WESJ
286	12/9/2011	744 PARKING LOT	F	2 AMRO
287	12/9/2011	744 PARKING LOT	F	1 NOCA
288	12/9/2011	805 ARROYO	F	2 AMRO
289	12/9/2011	820 TRICKNEE	F	1 BEWR
290	12/9/2011	820 TRICKNEE	F	2 RCSP
291	12/9/2011	840 POSSUM	F	2 TUTI
292	12/9/2011	840 POSSUM	S	1 DOVE
293	12/9/2011	850 POND	F	1 NOCA

294	12/9/2011	850 POND	F	1 NOCA
295	12/9/2011	850 POND	F	1 NOCA
296	12/9/2011	850 POND	F	3 NOCA
297	12/9/2011	850 POND	F	1 CARW
298	12/9/2011	850 POND	F	1 BLJA
299	12/9/2011	850 POND	F	1 SPTO
300	12/9/2011	850 POND	F	2 DEJU
301	12/9/2011	850 POND	F	1 FOSP
302	12/9/2011	850 POND	F	1 AMRO
303	12/9/2011	850 POND	F	2 SPTO
304	12/9/2011	850 POND	F	1 NOCA
305	12/9/2011	850 POND	F	1 AMRO
306	12/9/2011	850 POND	F	1 BLJA
307	12/9/2011	850 POND	F	1 GTGR
308	12/9/2011	850 POND	F	1 RCKI
309	12/9/2011	850 POND	F	1 HETH
310	12/9/2011	915 POND	F	1 SPTO
311	12/9/2011	915 POND	F	10 HOFI
312	12/9/2011	915 POND	F	2 LEGO
313	12/9/2011	915 POND	F	12 CEWA
314	12/9/2011	915 POND	F	1 NOCA
315	12/9/2011	915 POND	F	1 BLJA
316	12/9/2011	915 POND	F	1 SPTO
317	12/9/2011	945 ELM GROVE	S	1 RCKI
318	12/9/2011	945 ELM GROVE	F	2 GTGR
319	12/9/2011	1000 BEE CREEK 2X	F	1 GCKI
320	12/9/2011	1000 BEE CREEK 2X	F	1 GCKI
321	12/9/2011	1000 BEE CREEK 2X	F	1 GCKI
322	12/9/2011	1000 BEE CREEK 2X	F	1 GCKI
323	12/9/2011	1000 BEE CREEK 2X	F	1 RCKI
324	12/9/2011	1000 BEE CREEK 2X	F	1 RCKI
325	12/9/2011	1000 BEE CREEK 2X	F	1 RCKI
326	12/9/2011	1000 BEE CREEK 2X	F	1 RCKI
327	12/9/2011	1000 BEE CREEK 2X	F	1 HETH
328	12/9/2011	1000 BEE CREEK 2X	F	2 TUTI
329	12/9/2011	1005 BEE/WOODLAND	F	1 RCKI
330	12/9/2011	1005 BEE/WOODLAND	F	1 GCKI
331	12/9/2011	1010 BEE CREEK	F	1 NOCA
332	12/9/2011	1010 BEE CREEK	F	1 NOCA
333	12/9/2011	1015 WATERFALL	S	1 RCKI
334	12/9/2011	1020 LOWER LAUREL	F	2 NOCA
335	12/9/2011	1030 UPPER ARROYO	F	2 YRWA
336	12/9/2011	1030 UPPER ARROYO	F	2 RCKI
337	12/9/2011	1030 UPPER ARROYO	F	1 GCKI
338	12/9/2011	1030 UPPER ARROYO	F	1 TUTI
339	12/9/2011	1030 UPPER ARROYO	F	1 TUTI
340	12/9/2011	1030 UPPER ARROYO	F	2 TUTI
341	12/9/2011	1030 UPPER ARROYO	F	1 RCKI
342	12/9/2011	1030 UPPER ARROYO	F	1 RCKI

343	12/9/2011	1030 UPPER ARROYO	F	1 RCKI
344	12/9/2011	1030 UPPER ARROYO	F	1 RCKI
345	12/16/2011	750 PARKING LOT	F	1 BHVI
346	12/16/2011	750 PARKING LOT	F	1 GCKI
347	12/16/2011	750 PARKING LOT	F	1 GCKI
348	12/16/2011	750 PARKING LOT	F	1 RCKI
349	12/16/2011	750 PARKING LOT	F	1 RCKI
350	12/16/2011	750 PARKING LOT	F	1 RCKI
351	12/16/2011	750 PARKING LOT	F	1 RCKI
352	12/16/2011	750 PARKING LOT	F	1 TUTI
353	12/16/2011	750 PARKING LOT	F	1 TUTI
354	12/16/2011	750 PARKING LOT	F	1 CACH
355	12/16/2011	750 PARKING LOT	F	1 CACH
356	12/16/2011	750 PARKING LOT	S	1 NOCA
357	12/16/2011	750 PARKING LOT	F	25 AMRO
358	12/16/2011	805 PARKING LOT	S	1 TUVU
359	12/16/2011	805 PARKING LOT	F	4 BLVU
360	12/16/2011	820 ARROYO	F	50 AMRO
361	12/16/2011	825 ARROYO/TRICKNEE	S	1 EUST
362	12/16/2011	835 POSSUM	S	1 NOCA
363	12/16/2011	840 POND	F	2 DEJU
364	12/16/2011	840 POND	F	4 CEWA
365	12/16/2011	840 POND	F	1 AMRO
366	12/16/2011	840 POND	F	1 BLJA
367	12/16/2011	840 POND	F	1 NOCA
368	12/16/2011	840 POND	F	2 RCKI
369	12/16/2011	840 POND	F	2 SPTO
370	12/16/2011	850 POND	F	2 WWDO
371	12/16/2011	850 POND	F	1 NOCA
372	12/16/2011	850 POND	F	1 RBWO
373	12/16/2011	850 POND	F	2 NOCA
374	12/16/2011	910 ELM GROVE	F	2 AMRO
375	12/16/2011	910 ELM GROVE	F	2 NOCA
376	12/16/2011	910 ELM GROVE	S	1 RCKI
377	12/16/2011	910 ELM GROVE	S	1 LBWO
378	12/16/2011	910 ELM GROVE	F	1 RCKI
379	12/16/2011	910 ELM GROVE	F	1 OCWA
380	12/16/2011	910 ELM GROVE	F	1 NOCA
381	12/16/2011	910 ELM GROVE	F	2 GCKI
382	12/16/2011	910 ELM GROVE	F	1 RCKI
383	12/16/2011	910 ELM GROVE	F	1 RCKI
384	12/16/2011	910 ELM GROVE	F	1 RCKI
385	12/16/2011	910 ELM GROVE	F	1 RCKI
386	12/16/2011	910 ELM GROVE	F	1 HETH
387	12/16/2011	910 ELM GROVE	F	1 OCWA
388	12/16/2011	910 ELM GROVE	F	2 TUTI
389	12/16/2011	950 BEE CREEK 2X	F	2 YRWA
390	12/16/2011	950 BEE CREEK 2X	F	2 HOFI
391	12/16/2011	950 BEE CREEK 2X	F	1 RCKI

392	12/16/2011	950 BEE CREEK 2X	F	1 RCKI
393	12/16/2011	950 BEE CREEK 2X	F	1 RCKI
394	12/16/2011	950 BEE CREEK 2X	F	1 RCKI
395	12/16/2011	950 BEE CREEK 2X	F	1 GCKI
396	12/16/2011	950 BEE CREEK 2X	F	1 GCKI
397	12/16/2011	950 BEE CREEK 2X	F	1 GCKI
398	12/16/2011	950 BEE CREEK 2X	F	1 GCKI
399	12/16/2011	950 BEE CREEK 2X	F	1 TUTI
400	12/16/2011	950 BEE CREEK 2X	F	1 TUTI
401	12/16/2011	950 BEE CREEK 2X	F	1 TUTI
402	12/16/2011	950 BEE CREEK 2X	F	1 TUTI
403	12/16/2011	1000 BEE/WOODLAND	F	5 LEGO
404	12/16/2011	1000 BEE/WOODLAND	F	8 LEGO
405	12/16/2011	1000 BEE/WOODLAND	F	3 LEGO
406	12/16/2011	1000 BEE/WOODLAND	F	4 LEGO
407	12/16/2011	1000 BEE/WOODLAND	F	1 NOCA
408	12/16/2011	1000 BEE/WOODLAND	F	1 OCWA
409	12/16/2011	1015 WATERFALL	S	1 LEGO
410	12/16/2011	1030 LAUREL/LEDGE	F	16 AMRO
411	12/16/2011	1030 LAUREL/LEDGE	F	2 NOSH
412	12/16/2011	1030 LAUREL/LEDGE	S	1 AMPI
413	12/16/2011	1045 UPPER LAUREL	F	40 AMRO
414	12/16/2011	1045 UPPER LAUREL	F	2 TUTI
415	12/16/2011	1045 UPPER LAUREL	F	2 RCSP
416	12/23/2011	755 PARKING LOT	S	1 HETH
417	12/23/2011	810 ARROYO/TRICKNEE	S	1 SPTO
418	12/23/2011	810 ARROYO/TRICKNEE	S	1 WWDO
419	12/23/2011	810 ARROYO/TRICKNEE	F	20 CEWA
420	12/23/2011	820 TRICKNEE	F	2 WWDO
421	12/23/2011	850 POND	F	2 NOCA
422	12/23/2011	850 POND	F	1 NOCA
423	12/23/2011	850 POND	F	1 NOCA
424	12/23/2011	850 POND	F	1 NOCA
425	12/23/2011	850 POND	F	1 NOCA
426	12/23/2011	850 POND	F	1 HOFI
427	12/23/2011	850 POND	F	1 FOSP
428	12/23/2011	850 POND	F	1 FOSP
429	12/23/2011	850 POND	F	1 RCKI
430	12/23/2011	850 POND	F	1 GCKI
431	12/23/2011	850 POND	F	1 RCKI
432	12/23/2011	850 POND	F	2 CACH
433	12/23/2011	850 POND	F	40 AMRO
434	12/23/2011	850 POND	F	1 YRWA
435	12/23/2011	850 POND	F	2 DEJU
436	12/23/2011	850 POND	F	2 DEJU
437	12/23/2011	850 POND	F	4 DEJU
438	12/23/2011	850 POND	F	2 SPTO
439	12/23/2011	850 POND	F	1 SPTO
440	12/23/2011	850 POND	F	1 SPTO

441	12/23/2011	850 POND	F	1 BLJA
442	12/23/2011	850 POND	F	1 HOFI
443	12/23/2011	905 BEE CREEK 1X	S	1 HETH
444	12/23/2011	910 BEE CREEK 2X	S	1 NOCA
445	12/23/2011	1005 LAUREL/LEDGE	S	1 NOCA
446	12/23/2011	1005 LAUREL/LEDGE	S	1 HOFI
447	12/23/2011	1015 ARROYO/LAUREL	S	1 WWDO
448	12/30/2011	735 VISITOR CENTER	F	1 RCSP
449	12/30/2011	735 VISITOR CENTER	F	1 RCSP
450	12/30/2011	735 VISITOR CENTER	S	1 RCKI
451	12/30/2011	735 VISITOR CENTER	S	1 AMRO
452	12/30/2011	735 VISITOR CENTER	F	2 CEWA
453	12/30/2011	735 VISITOR CENTER	F	1 SPTO
454	12/30/2011	735 VISITOR CENTER	F	1 TUTI
455	12/30/2011	820 ARROYO/LAUREL	S	1 HOFI
456	12/30/2011	820 ARROYO/LAUREL	S	1 AMGO
457	12/30/2011	820 ARROYO/LAUREL	F	5 AMRO
458	12/30/2011	830 UPPER LAUREL	F	50 AMRO
459	12/30/2011	830 UPPER LAUREL	S	1 HOFI
460	12/30/2011	845 LEDGE	F	9 WWDO
461	12/30/2011	845 LEDGE	F	1 BEWR
462	12/30/2011	845 LEDGE	F	1 GCKI
463	12/30/2011	845 LEDGE	F	1 RCKI
464	12/30/2011	845 LEDGE	F	1 RCKI
465	12/30/2011	845 LEDGE	F	1 RCKI
466	12/30/2011	845 LEDGE	F	2 RCKI
467	12/30/2011	845 LEDGE	S	1 YRWA
468	12/30/2011	845 LEDGE	F	1 YRWA
469	12/30/2011	845 LEDGE	F	1 TUTI
470	12/30/2011	845 LEDGE	F	1 TUTI
471	12/30/2011	845 LEDGE	F	2 TUTI
472	12/30/2011	845 LEDGE	F	12 AMRO
473	12/30/2011	915 WATERFALL	S	1 AMCO
474	12/30/2011	925 BEE/WOODLAND	F	2 NOCA
475	12/30/2011	935 BEE/WOODLAND	F	1 RCKI
476	12/30/2011	935 BEE/WOODLAND	F	1 RCKI
477	12/30/2011	935 BEE/WOODLAND	F	1 BRRCR
478	12/30/2011	950 BEE CREEK 1X	S	1 AMRO
479	12/30/2011	1000 ELM GROVE	F	1 GCKI
480	12/30/2011	1000 ELM GROVE	F	1 GCKI
481	12/30/2011	1000 ELM GROVE	F	1 RCKI
482	12/30/2011	1000 ELM GROVE	F	1 RCKI
483	12/30/2011	1000 ELM GROVE	F	1 NOCA
484	12/30/2011	1000 ELM GROVE	F	1 NOCA
485	12/30/2011	1000 ELM GROVE	F	2 CACH
486	12/30/2011	1000 ELM GROVE	F	1 CACH
487	12/30/2011	1000 ELM GROVE	F	1 CACH
488	12/30/2011	1000 ELM GROVE	F	1 RCKI
489	12/30/2011	1000 ELM GROVE	F	1 GCKI

490	12/30/2011	1000 ELM GROVE	S	1 NOCA
491	12/30/2011	1010 ELM GROVE	S	1 LEGO
492	12/30/2011	1020 POND	F	2 NOCA
493	12/30/2011	1020 POND	F	1 NOCA
494	12/30/2011	1020 POND	F	2 DEJU
495	12/30/2011	1020 POND	F	1 DEJU
496	12/30/2011	1020 POND	F	1 DEJU
497	12/30/2011	1020 POND	F	1 DEJU
498	12/30/2011	1020 POND	F	1 TUTI
499	12/30/2011	1020 POND	F	1 TUTI
500	12/30/2011	1020 POND	F	2 YRWA
501	12/30/2011	1020 POND	F	1 YRWA
502	12/30/2011	1020 POND	F	1 YRWA
503	12/30/2011	1020 POND	F	1 YRWA
504	12/30/2011	1020 POND	F	1 AMRO
505	12/30/2011	1020 POND	F	1 AMRO
506	12/30/2011	1020 POND	F	1 AMRO
507	12/30/2011	1030 POND	F	3 AMGO
508	12/30/2011	1030 POND	F	1 LEGO
509	12/30/2011	1030 POND	F	1 LEGO
510	12/30/2011	1030 POND	F	2 BLVU
511	12/30/2011	1030 POND	F	1 BLJA
512	12/30/2011	1030 POND	F	3 SPTO
513	12/30/2011	1030 POND	F	1 FOSP
514	12/30/2011	1030 POND	F	1 FOSP
515	12/30/2011	1030 POND	F	1 CARW
516	12/30/2011	1030 POND	F	1 NOCA
517	12/30/2011	1030 POND	F	1 DEJU
518	12/30/2011	1030 POND	F	1 DEJU
519	12/30/2011	1030 POND	F	1 YRWA
520	12/30/2011	1030 POND	F	2 NOCA
521	12/30/2011	1030 POND	F	4 DEJU
522	12/30/2011	1030 POND	F	2 TUTI
523	12/30/2011	1030 POND	F	6 YRWA
524	12/30/2011	1030 POND	F	4 LEGO
525	12/30/2011	1030 POND	F	3 AMGO
526	12/30/2011	1110 POND	F	2 CACH
527	12/30/2011	1110 POND	F	2 RCKI
528	12/30/2011	1130 TRICKNEE/LEDGE	S	1 LBWO
529	1/6/2012	734 PARKING LOT	F	6 AMRO
530	1/6/2012	734 PARKING LOT	F	4 AMCR
531	1/6/2012	734 PARKING LOT	S	1 LEGO
532	1/6/2012	734 PARKING LOT	F	20 AMRO
533	1/6/2012	734 PARKING LOT	F	2 CEWA
534	1/6/2012	810 TRICKNEE	S	1 LBWO
535	1/6/2012	810 TRICKNEE	F	1 RCKI
536	1/6/2012	810 TRICKNEE	F	1 RCKI
537	1/6/2012	810 TRICKNEE	F	3 RCKI
538	1/6/2012	810 TRICKNEE	F	1 OCWA

539	1/6/2012	810 TRICKNEE	F	4 TUTI
540	1/6/2012	815 LEDGE	F	1 TUTI
541	1/6/2012	815 LEDGE	F	1 TUTI
542	1/6/2012	815 LEDGE	S	1 RCSP
543	1/6/2012	815 LEDGE	S	1 BEWR
544	1/6/2012	815 LEDGE	F	1 OCWA
545	1/6/2012	815 LEDGE	F	2 GCKI
546	1/6/2012	830 POSSUM	S	1 WWDO
547	1/6/2012	830 POSSUM	F	4 AMGO
548	1/6/2012	830 POSSUM	F	1 RCKI
549	1/6/2012	830 POSSUM	F	2 HOFI
550	1/6/2012	830 POSSUM	F	1 RCKI
551	1/6/2012	830 POSSUM	F	1 RCKI
552	1/6/2012	830 POSSUM	F	1 RCKI
553	1/6/2012	830 POSSUM	F	7 RCKI
554	1/6/2012	830 POSSUM	F	1 CACH
555	1/6/2012	830 POSSUM	F	1 CACH
556	1/6/2012	845 POND	F	1 NOCA
557	1/6/2012	845 POND	F	1 NOCA
558	1/6/2012	845 POND	F	2 NOCA
559	1/6/2012	845 POND	F	2 YRWA
560	1/6/2012	845 POND	F	1 AMRO
561	1/6/2012	845 POND	F	3 AMRO
562	1/6/2012	845 POND	F	3 SPTO
563	1/6/2012	845 POND	F	4 AMGO
564	1/6/2012	845 POND	F	2 LEGO
565	1/6/2012	845 POND	F	1 RCKI
566	1/6/2012	845 POND	F	1 RCKI
567	1/6/2012	845 POND	F	2 HOFI
568	1/6/2012	845 POND	F	1 RBWO
569	1/6/2012	930 ELM GROVE	F	1 RCKI
570	1/6/2012	930 ELM GROVE	F	1 RCKI
571	1/6/2012	930 ELM GROVE	F	1 GCKI
572	1/6/2012	930 ELM GROVE	F	1 GCKI
573	1/6/2012	930 ELM GROVE	F	1 AMRO
574	1/6/2012	950 BEE CREEK 2X	F	1 RCKI
575	1/6/2012	950 BEE CREEK 2X	F	1 RCKI
576	1/6/2012	950 BEE CREEK 2X	F	3 RCKI
577	1/6/2012	950 BEE CREEK 2X	F	1 NOCA
578	1/6/2012	950 BEE CREEK 2X	F	1 NOCA
579	1/6/2012	950 BEE CREEK 2X	F	1 TUTI
580	1/6/2012	950 BEE CREEK 2X	F	1 TUTI
581	1/6/2012	950 BEE CREEK 2X	F	3 TUTI
582	1/6/2012	950 BEE CREEK 2X	F	1 OCWA
583	1/6/2012	950 BEE CREEK 2X	F	1 RCKI
584	1/6/2012	950 BEE CREEK 2X	F	1 RCKI
585	1/6/2012	1010 BEE/WOODLAND	F	2 NOCA
586	1/6/2012	1040 LAUREL/LEDGE	F	1 RCSP
587	1/6/2012	1040 LAUREL/LEDGE	F	1 RCSP

588	1/6/2012	1040 LAUREL/LEDGE	F	1 RCSP
589	1/6/2012	1040 LAUREL/LEDGE	F	1 RCSP
590	1/13/2012	735 PARKING LOT	F	15 AMRO
591	1/13/2012	740 PARKING LOT	F	10 AMRO
592	1/13/2012	745 PARKING LOT	S	1 GTGR
593	1/13/2012	750 PARKING LOT	F	20 AMRO
594	1/13/2012	750 PARKING LOT	S	1 BEWR
595	1/13/2012	750 PARKING LOT	F	8 AMCO
596	1/13/2012	750 PARKING LOT	S	1 RCKI
597	1/13/2012	755 VISITOR CENTER	F	10 AMRO
598	1/13/2012	805 ARROYO	F	35 CEWA
599	1/13/2012	805 ARROYO	F	25 CEWA
600	1/13/2012	805 ARROYO	F	1 GCKI
601	1/13/2012	805 ARROYO	F	1 RCKI
602	1/13/2012	805 ARROYO	F	2 TUTI
603	1/13/2012	805 ARROYO	F	1 OCWA
604	1/13/2012	805 ARROYO	F	1 CACH
605	1/13/2012	805 ARROYO	F	1 LBWO
606	1/13/2012	805 ARROYO	S	1 WWDO
607	1/13/2012	805 ARROYO	F	3 WWDO
608	1/13/2012	820 ARROYO/LAUREL	F	1 CACH
609	1/13/2012	820 ARROYO/LAUREL	F	1 CACH
610	1/13/2012	820 ARROYO/LAUREL	F	1 RCKI
611	1/13/2012	820 ARROYO/LAUREL	F	1 BEWR
612	1/13/2012	820 ARROYO/LAUREL	F	2 TUTI
613	1/13/2012	845 LEDGE/WOODLAND	S	1 GRRO
614	1/13/2012	845 LEDGE/WOODLAND	F	2 RCSP
615	1/13/2012	845 LEDGE/WOODLAND	F	2 TUTI
616	1/13/2012	845 LEDGE/WOODLAND	F	2 TUTI
617	1/13/2012	845 LEDGE/WOODLAND	F	2 TUTI
618	1/13/2012	845 LEDGE/WOODLAND	F	1 RCKI
619	1/13/2012	845 LEDGE/WOODLAND	F	1 RCKI
620	1/13/2012	845 LEDGE/WOODLAND	F	1 RCKI
621	1/13/2012	845 LEDGE/WOODLAND	F	1 RCKI
622	1/13/2012	845 LEDGE/WOODLAND	F	2 RCKI
623	1/13/2012	845 LEDGE/WOODLAND	F	1 GCKI
624	1/13/2012	930 WATERFALL	F	1 GCKI
625	1/13/2012	930 WATERFALL	F	1 GCKI
626	1/13/2012	930 WATERFALL	F	1 GCKI
627	1/13/2012	930 WATERFALL	F	1 GCKI
628	1/13/2012	930 WATERFALL	F	1 RCKI
629	1/13/2012	930 WATERFALL	F	1 RCKI
630	1/13/2012	950 BEE/WATERFALL	F	1 GCKI
631	1/13/2012	950 BEE/WATERFALL	F	1 GCKI
632	1/13/2012	950 BEE/WATERFALL	F	1 LEGO
633	1/13/2012	1000 BEE CREEK 2X	F	1 TUTI
634	1/13/2012	1000 BEE CREEK 2X	F	1 TUTI
635	1/13/2012	1000 BEE CREEK 2X	F	2 TUTI
636	1/13/2012	1000 BEE CREEK 2X	F	3 RCKI

637	1/13/2012	1000 BEE CREEK 2X	F	1 RCKI
638	1/13/2012	1000 BEE CREEK 2X	S	1 BLVU
639	1/13/2012	1010 BEE CREEK 1X	S	1 NOFL
640	1/13/2012	1015 ELM GROVE	F	2 DEJU
641	1/13/2012	1015 ELM GROVE	F	1 BLJA
642	1/13/2012	1015 ELM GROVE	F	1 RCKI
643	1/13/2012	1015 ELM GROVE	F	1 AMRO
644	1/13/2012	1030 POND	F	1 YRWA
645	1/13/2012	1030 POND	F	4 YRWA
646	1/13/2012	1030 POND	F	1 SPTO
647	1/13/2012	1030 POND	F	1 SPTO
648	1/13/2012	1030 POND	F	1 SPTO
649	1/13/2012	1030 POND	F	1 NOCA
650	1/13/2012	1030 POND	F	1 NOCA
651	1/13/2012	1030 POND	F	1 NOCA
652	1/13/2012	1030 POND	F	2 HOFI
653	1/13/2012	1030 POND	F	1 DEJU
654	1/13/2012	1030 POND	F	3 DEJU
655	1/13/2012	1120 POSSUM/LEDGE	S	1 GCKI
656	1/13/2012	1140 LOOKOUT	F	2 HOFI
657	1/13/2012	1140 LOOKOUT	S	1 COHA
658	1/20/2012	730 PARKING LOT	F	1 NOCA
659	1/20/2012	730 PARKING LOT	F	1 RCKI
660	1/20/2012	735 VISITOR CENTER	F	2 AMRO
661	1/20/2012	735 VISITOR CENTER	F	2 AMRO
662	1/20/2012	735 VISITOR CENTER	F	1 NOCA
663	1/20/2012	735 VISITOR CENTER	F	2 HOFI
664	1/20/2012	735 VISITOR CENTER	F	11 GTGR
665	1/20/2012	735 VISITOR CENTER	F	1 BEWR
666	1/20/2012	735 VISITOR CENTER	F	1 BEWR
667	1/20/2012	735 VISITOR CENTER	F	12 AMRO
668	1/20/2012	800 PARKING LOT	F	2 TUTI
669	1/20/2012	806 ARROYO	S	1 WESJ
670	1/20/2012	806 ARROYO	F	50 CEWA
671	1/20/2012	806 ARROYO	F	35 AMRO
672	1/20/2012	806 ARROYO	F	2 TUTI
673	1/20/2012	815 ARROYO/TRICKNEE	F	2 WWDO
674	1/20/2012	815 ARROYO/TRICKNEE	F	8 AMRO
675	1/20/2012	825 TRICKNEE/LEDGE	S	1 AMRO
676	1/20/2012	835 TRICKNEE/LEDGE	F	15 CEWA
677	1/20/2012	840 POSSUM	S	1 HOFI
678	1/20/2012	840 POSSUM	F	2 AMRO
679	1/20/2012	840 POSSUM	S	2 NOCA
680	1/20/2012	840 POSSUM	F	2 TUTI
681	1/20/2012	840 POSSUM	F	20 AMRO
682	1/20/2012	840 POSSUM	F	2 YRWA
683	1/20/2012	840 POSSUM	F	2 RCKI
684	1/20/2012	840 POSSUM	F	1 RCKI
685	1/20/2012	840 POSSUM	F	2 GCKI

686	1/20/2012	840 POSSUM	F	1 LBWO
687	1/20/2012	840 POSSUM	F	1 BLJA
688	1/20/2012	840 POSSUM	F	3 RCKI
689	1/20/2012	840 POSSUM	F	20 CEWA
690	1/20/2012	900 POND	F	3 CEWA
691	1/20/2012	900 POND	F	1 LBWO
692	1/20/2012	900 POND	F	1 LBWO
693	1/20/2012	900 POND	F	1 YRWA
694	1/20/2012	900 POND	F	1 YRWA
695	1/20/2012	900 POND	F	1 NOCA
696	1/20/2012	910 POND	F	2 YRWA
697	1/20/2012	910 POND	F	1 YRWA
698	1/20/2012	910 POND	F	1 SPTO
699	1/20/2012	910 POND	S	1 RTHA
700	1/20/2012	910 POND	F	2 YRWA
701	1/20/2012	910 POND	F	2 YRWA
702	1/20/2012	910 POND	F	2 NOCA
703	1/20/2012	910 POND	F	1 NOCA
704	1/20/2012	910 POND	F	4 AMRO
705	1/20/2012	910 POND	F	1 AMRO
706	1/20/2012	910 POND	F	1 BLJA
707	1/20/2012	910 POND	F	1 LBWO
708	1/20/2012	910 POND	F	1 SPTO
709	1/20/2012	910 POND	F	1 SPTO
710	1/20/2012	910 POND	F	1 RCKI
711	1/20/2012	910 POND	F	1 BLJA
712	1/20/2012	910 POND	F	2 CACH
713	1/20/2012	910 POND	F	4 TUTI
714	1/20/2012	910 POND	F	1 RCKI
715	1/20/2012	940 ELM GROVE	F	2 CACH
716	1/20/2012	940 ELM GROVE	F	1 CACH
717	1/20/2012	940 ELM GROVE	F	2 RCKI
718	1/20/2012	940 ELM GROVE	F	1 NOCA
719	1/20/2012	940 ELM GROVE	F	1 NOCA
720	1/20/2012	940 ELM GROVE	F	1 YRWA
721	1/20/2012	1005 BEE CREEK 1X	S	1 RCKI
722	1/20/2012	1015 BEE CREEK/WOODLA	F	2 AMGO
723	1/20/2012	1015 BEE CREEK/WOODLA	F	20 AMRO
724	1/20/2012	1015 BEE CREEK/WOODLA	F	2 HOFI
725	1/20/2012	1025 WATERFALL	S	1 TUVU
726	1/20/2012	1040 LOWER LAUREL	F	30 CEWA
727	1/27/2012	735 PARKING LOT NEAR	F	3 AMCR
728	1/27/2012	735 PARKING LOT NEAR	F	50 CEWA
729	1/27/2012	735 PARKING LOT NEAR	F	200 AMRO
730	1/27/2012	735 PARKING LOT NEAR	S	1 CACH
731	1/27/2012	735 PARKING LOT NEAR	S	1 HOFI
732	1/27/2012	735 PARKING LOT NEAR	F	1 WESJ
733	1/27/2012	735 PARKING LOT NEAR	F	2 WESJ
734	1/27/2012	735 PARKING LOT NEAR	F	1 WESJ

735	1/27/2012	758 PARKING LOT FAR	F	25 CEWA
736	1/27/2012	758 PARKING LOT FAR	F	1 RCKI
737	1/27/2012	758 PARKING LOT FAR	F	2 TUTI
738	1/27/2012	800 PARKING LOT NEAR	S	1 BEWR
739	1/27/2012	800 PARKING LOT NEAR	S	1 NOCA
740	1/27/2012	800 PARKING LOT NEAR	F	2 DCCO
741	1/27/2012	805 VISITOR CENTER	S	2 DOVE
742	1/27/2012	825 LAUREL/LEDGE	F	2 RCKI
743	1/27/2012	830 ESCARPMENT	F	2 RCKI
744	1/27/2012	830 ESCARPMENT	F	1 GCKI
745	1/27/2012	830 ESCARPMENT	F	2 TUTI
746	1/27/2012	830 ESCARPMENT	F	1 TUTI
747	1/27/2012	830 ESCARPMENT	F	2 TUTI
748	1/27/2012	830 ESCARPMENT	F	1 NOCA
749	1/27/2012	830 ESCARPMENT	F	1 BEWR
750	1/27/2012	843 LEDGE/WOODLAND	S	1 NOCA
751	1/27/2012	850 LOWER LAUREL	F	1 RCKI
752	1/27/2012	850 LOWER LAUREL	F	1 RCKI
753	1/27/2012	900 LOWER LAUREL/BEE	F	1 OCWA
754	1/27/2012	900 LOWER LAUREL/BEE	F	1 NOCA
755	1/27/2012	900 LOWER LAUREL/BEE	F	1 RCKI
756	1/27/2012	900 LOWER LAUREL/BEE	F	2 BLJA
757	1/27/2012	900 LOWER LAUREL/BEE	F	1 NOCA
758	1/27/2012	900 LOWER LAUREL/BEE	S	1 LBWO
759	1/27/2012	905 WATERFALL	F	3 AMGO
760	1/27/2012	905 WATERFALL	F	1 LEGO
761	1/27/2012	905 WATERFALL	F	2 CACH
762	1/27/2012	905 WATERFALL	F	4 CACH
763	1/27/2012	905 WATERFALL	F	1 TUTI
764	1/27/2012	905 WATERFALL	F	1 TUTI
765	1/27/2012	905 WATERFALL	F	1 GCKI
766	1/27/2012	915 WATERFALL	F	1 RCKI
767	1/27/2012	915 WATERFALL	F	1 RCKI
768	1/27/2012	940 BEE	F	2 CACH
769	1/27/2012	940 BEE	F	2 BLJA
770	1/27/2012	955 BEE CREEK 2X	S	1 RCKI
771	1/27/2012	955 BEE CREEK 2X	S	1 NOCA
772	1/27/2012	958 BEE CREEK 1X	F	1 NOCA
773	1/27/2012	958 BEE CREEK 1X	F	1 NOCA
774	1/27/2012	1010 ELM GROVE	F	1 NOCA
775	1/27/2012	1010 ELM GROVE	F	1 GCKI
776	1/27/2012	1010 ELM GROVE	F	1 GCKI
777	1/27/2012	1010 ELM GROVE	F	1 RCKI
778	1/27/2012	1010 ELM GROVE	F	1 RCKI
779	1/27/2012	1010 ELM GROVE	F	1 RCKI
780	1/27/2012	1010 ELM GROVE	F	1 RCKI
781	1/27/2012	1010 ELM GROVE	F	1 RCKI
782	1/27/2012	1010 ELM GROVE	F	1 RCKI
783	1/27/2012	1010 ELM GROVE	F	1 RCKI

784	1/27/2012	1010 ELM GROVE	F	1 LBWO
785	1/27/2012	1010 ELM GROVE	F	2 TUTI
786	1/27/2012	1010 ELM GROVE	F	2 GCKI
787	1/27/2012	1010 ELM GROVE	F	4 RCKI
788	1/27/2012	1010 ELM GROVE	F	1 DEJU
789	1/27/2012	1010 ELM GROVE	F	1 DEJU
790	1/27/2012	1010 ELM GROVE	F	1 DEJU
791	1/27/2012	1010 ELM GROVE	F	1 DEJU
792	1/27/2012	1010 ELM GROVE	F	1 DEJU
793	1/27/2012	1010 ELM GROVE	F	1 DEJU
794	1/27/2012	1010 ELM GROVE	F	1 DEJU
795	1/27/2012	1010 ELM GROVE	F	1 DEJU
796	1/27/2012	1010 ELM GROVE	F	5 BLVU
797	1/27/2012	1010 ELM GROVE	F	1 NOCA
798	1/27/2012	1010 ELM GROVE	F	1 NOCA
799	1/27/2012	1010 ELM GROVE	F	1 LBWO
800	1/27/2012	1040 POND	S	1 SPTO
801	1/27/2012	1040 POND	S	1 YRWA
802	1/27/2012	1040 POND	S	1 TUVU
803	1/27/2012	1040 POND	F	20 AMRO
804	1/27/2012	1110 POSSUM	F	2 AMRO
805	1/27/2012	1110 POSSUM	F	1 AMRO
806	1/27/2012	1110 POSSUM	F	1 AMRO
807	1/27/2012	1110 POSSUM	F	1 AMRO
808	1/27/2012	1110 POSSUM	F	1 AMRO
809	1/27/2012	1110 POSSUM	F	1 AMRO
810	1/27/2012	1110 POSSUM	F	3 AMRO
811	1/27/2012	1110 POSSUM	F	1 RCKI
812	1/27/2012	1110 POSSUM	F	1 TUTI
813	1/27/2012	1115 POSSUM	F	10 AMRO
814	1/27/2012	1115 POSSUM	F	1 AMRO
815	1/27/2012	1115 POSSUM	F	1 AMRO
816	1/27/2012	1115 POSSUM	F	1 AMRO
817	1/27/2012	1115 POSSUM	F	1 AMRO
818	1/27/2012	1115 POSSUM	F	1 AMRO
819	1/27/2012	1115 POSSUM	F	7 AMRO
820	1/27/2012	1115 POSSUM	F	2 CEWA
821	1/27/2012	1115 POSSUM	F	1 LBWO
822	1/27/2012	1125 POSSUM	F	5 AMRO
823	1/27/2012	1125 POSSUM	F	1 CEWA
824	1/27/2012	1125 POSSUM	F	1 CEWA
825	1/27/2012	1125 POSSUM	F	1 CEWA
826	1/27/2012	1125 POSSUM	F	1 CEWA
827	1/27/2012	1125 POSSUM	F	1 CEWA
828	1/27/2012	1125 POSSUM	F	1 CEWA
829	1/27/2012	1125 POSSUM	F	1 CEWA
830	1/27/2012	1125 POSSUM	F	1 CEWA
831	1/27/2012	1125 POSSUM	F	1 CEWA
832	1/27/2012	1125 POSSUM	F	1 CEWA

833

1/27/2012

1125 POSSUM

F

10 CEWA

BEHAVIOR TREE		FOR. HGT.(m	COMMENTS
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F	JUNIPER	4	
F	JUNIPER	3	
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F	JUNIPER	2	
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F	JUNIPER	0.5	
F	JUNIPER	3.5	
T			
F	JUNIPER	2.5	
F			
T			
P			
F	JUNIPER	0.5	
F			
F	TX OAK	4	
HO			
P			
F	JUNIPER	7	
F			
HO			
F	JUNIPER	7	
F			
F	JUNIPER	8	
F			
P	ELM	12	
HO			
F			
HO			
F	YAUPON	6	
F	JUNIPER	2	
F	JUNIPER	6	
F			
F	JUNIPER	3	
F			
F	JUNIPER	6	
F			

F	YAUPON	5
F	JUNIPER	12
F	TX OAK	9
F	LIVE OAK	10
F		
F	TX OAK	12
HO		
F	JUNIPER	10
F	YAUPON	0.5
F	ELM	8
F	SYCAMORE	18
F		
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F		
F	LIVE OAK	7
F		
F	GROUND	0
F	ELM	6
F		
F		
F	JUNIPER	6
F	LIVE OAK	2
F	LIVE OAK	4
F	LIVE OAK	7
F		
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HO		
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T		
P	LIVE OAK	16
HO		
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HO		
F	JUNIPER	2
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F	JUNIPER	4
P	LIVE OAK	9
HO		
F	JUNIPER	3
F	JUNIPER	4
F	JUNIPER	5
F	TX OAK	5
F	WILLOW	12
F	JUNIPER	3
F	JUNIPER	5
F	JUNIPER	5

F	JUNIPER	3
F	JUNIPER	5
F	JUNIPER	12
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F	JUNIPER	2
F	JUNIPER	2
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F	JUNIPER	6
F	JUNIPER	5
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F	JUNIPER	6
F	TX OAK	7
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HO		
F	JUNIPER	14
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F	JUNIPER	0.5
F	SYCAMORE	11
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F	JUNIPER	9
F	JUNIPER	11
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F	JUNIPER	10
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F	JUNIPER	10
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HO		
F		
HO		
F	YAUPON	2
F		
F	GROUND	0
F	JUNIPER	12
HO		
HO		
F	EVER SUMAC	0.5
F	GROUND	0
F		
F	JUNIPER	5
F	JUNIPER	6
F		
F	JUNIPER	1
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F	JUNIPER	8
F	GROUND	0

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F	JUNIPER	8
F	JUNIPER	10
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F	JUNIPER	8
F	JUNIPER	10
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F	JUNIPER	8
F		
T		
F	GROUND	0
P	JUNIPER	2
HO		
F	TX OAK	2
F	JUNIPER	2.5
F	JUNIPER	0.5
F	JUNIPER	1.5
F	JUNIPER	4
F	JUNIPER	0.5
F	LIVE OAK	10
F	GROUND	0
F	TX OAK	18
F	ELM	14
F	ELM	1
F	ELM	15
F	GROUND	0
F		
P	COTTONWOOD	20
F	JUNIPER	12
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F	JUNIPER	10
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F	JUNIPER	6
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F	JUNIPER	6
F	JUNIPER	7
F	JUNIPER	8
F	JUNIPER	5

F	JUNIPER	7
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F	JUNIPER	5
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F	JUNIPER	4
HO		
HO		
HO		
F	JUNIPER	4
F	JUNIPER	5
F	JUNIPER	7
F	COTTONWOOD	12
F	COTTONWOOD	14
F	COTTONWOOD	14
F		
F	JUNIPER	8
F	JUNIPER	10
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F		
F	JUNIPER	5
F	JUNIPER	6
F	JUNIPER	9
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F	JUNIPER	6
F	JUNIPER	8
F		
F	JUNIPER	2
F	SYCAMORE	18
F	JUNIPER	6
F	JUNIPER	8
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F	JUNIPER	4
F	JUNIPER	6
F		
HO		
HO		
HO		
F	TX OAK	7
F	TX OAK	6

F		
F	JUNIPER	6
F	JUNIPER	7
F		
F		
F	YAUPON	3
HO		
F		
HO		
HO		
F		
F		
F	ELM	6
F	ELM	7
F		
F		
F	JUNIPER	2
F	GROUND	0
F	JUNIPER	1.5
F		
F	ELM	1
F	ELM	2
F	GRAPE	1
F	GROUND	0
F	GRASS	1
F		
F	TX OAK	12
F	TX OAK	10
F	JUNIPER	12
F	JUNIPER	1
F	JUNIPER	3
F		
F	GROUND	0
F	GRAPE	1.5
F	GROUND	0
F	GROUND	0
F		
HO		
F	JUNIPER	2
T		
P	JUNIPER	5
T		
HO		
HO		
F	LIVE OAK	1
F	GROUND	0
HO		
P	JUNIPER	7
P	GRAPE	6

P	JUNIPER	2
P	LIVE OAK	1
F		
S		
F	GRAPE	7
F	GRAPE	6
F		
F	YAUPON	2
F	ELM	20
F		
F	ELM	8
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HO		
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F		
F	JUNIPER	2.5
T		
HO		
F	JUNIPER	16
F	JUNIPER	3
F	ELM	12
F	JUNIPER	2
F	YAUPON	3
HO		
F	JUNIPER	4
F	JUNIPER	6
F	JUNIPER	6
F	LIVE OAK	4
F	JUNIPER	3
F	JUNIPER	3
F	JUNIPER	4
F	JUNIPER	4
F		
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F	JUNIPER	7
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F	TX OAK	2
F	JUNIPER	3
F		
F	JUNIPER	6
F	JUNIPER	4

F	JUNIPER	4
F	LIVE OAK	3
F	JUNIPER	4
F	JUNIPER	5
F		
F	JUNIPER	8
F	JUNIPER	6
F	JUNIPER	7
F		
F	JUNIPER	8
F	LIVE OAK	8
F	JUNIPER	7
F	JUNIPER	9
HO		
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HO		
F	JUNIPER	4
F		
F	JUNIPER	1
T		
F	YAUPON	5
F	TX OAK	8
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F		
S	STUMP	14
F	JUNIPER	8
F	JUNIPER	8
F	JUNIPER	8
F		
F	JUNIPER	2
F	JUNIPER	2
F	YAUPON	2
F	YAUPON	2
F	JUNIPER	2
F	JUNIPER	4
F		
F		
HO		
F	JUNIPER	2

F	JUNIPER	3
F	JUNIPER	4
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F	JUNIPER	4
F	JUNIPER	4
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F	JUNIPER	4
F	JUNIPER	5
F		
F		
F	JUNIPER	10
F	SYCAMORE	14
F	POSSUMHAW	7
F		
F		
F	POSSUMHAW	7
P	SYCAMORE	14
T		
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HO		
HO		
F	GROUND	0
HO		
P	JUNIPER	1
T		
T		
F	YAUPON	1
F	GRAPE	1
F	STUMP	0.5
F	TX OAK	4
F		
T		
F	GROUND	0
F	YAUPON	0.25
F	JUNIPER	3.5
F	ELM	4
F		
F		
T		
F	ELM	16
F	STUMP	0.25
F	GROUND	0
F		
F	STUMP	0.25
F		
F	GREENBRIAR	0.5

F	STUMP	0.5	
T			
F	JUNIPER	0.25	
F	JUNIPER	5	
HO			
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F	LIVE OAK	1.5	
F	JUNIPER	0.5	
HO			
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F	JUNIPER	8	
F	JUNIPER	5	
F	JUNIPER	7	
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P	JUNIPER	8	
F	JUNIPER	6	
F	JUNIPER	5	
F	JUNIPER	4	
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HO			
F	TX OAK	4	
F	JUNIPER	5	
HO			PROBABLE CREEPER
P	JUNIPER	3	
F	TX OAK	5	
F	JUNIPER	5	
F	TX OAK	7	
F	LIVE OAK	6	
F	JUNIPER	3	
F	JUNIPER	4	
F			
F	TX OAK	10	
F	TX OAK	11	
F			
F			

F	LIVE OAK	0.5
HO		
F	JUNIPER	2
F	YAUPON	1.5
F	GROUND	0
F	YAUPON	4
F	JUNIPER	2
F	JUNIPER	6
F	JUNIPER	3
F	JUNIPER	5
F	JUNIPER	14
F	YAUPON	3
F	JUNIPER	4
F	ELM	10
F	JUNIPER	7
F	JUNIPER	10
F	JUNIPER	12
F	ELM	16
F	ELM	6
F	ELM	8
T		
F	YAUPON	0.5
F	GROUND	0
F	JUNIPER	5
F	JUNIPER	1
HO		
F	YAUPON	3
F	JUNIPER	2
F	JUNIPER	3
F	GROUND	0
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F	ELM	16
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F	JUNIPER	1.5
F	TX OAK	8
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F	JUNIPER	7
F	JUNIPER	3
F	JUNIPER	6
F		
F	ELM	10
P	COTTONWOOD	16
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F		
HO		
P	ELM	17
F	TX OAK	11
F	TX OAK	15
T		
HO		
F	ELM	5
F	ELM	8
F	ELM	7
F	ELM	10
HO		
F	JUNIPER	4
F	JUNIPER	8
F		
F	JUNIPER	4
F		
F	YAUPON	0.5
F	YAUPON	1.5
F		
F	GROUND	0
F	GROUND	0
F		
HO		
F	YAUPON	0.5
F	YAUPON	1

F	GROUND	0
F		
T		
P	TX OAK	14
T		
T		
S	SUMAC	1
F		
F		
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T		
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F	JUNIPER	2.5
F	JUNIPER	2
F	JUNIPER	2
F	JUNIPER	2.5
HO		
HO		
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F	JUNIPER	3
F		
F	JUNIPER	3
HO		
HO		
P	GROUND	0
HO		
F	JUNIPER	6
F	JUNIPER	5
F		
F	JUNIPER	6
F	JUNIPER	5
F	JUNIPER	3
F	STUMP	5
F		
F		
F	TX OAK	7
F	TX OAK	8
F	JUNIPER	6
F		
F	TX OAK	8
F	JUNIPER	8
F	JUNIPER	9
F	JUNIPER	8
HO		
F	JUNIPER	6
F	JUNIPER	6
F		
F	JUNIPER	6

F	JUNIPER	2
T		
HO		
F	GROUND	0
HO		
HO		
HO		
F	JUNIPER	15
F		
F	GROUND	0
F	GRASS	0.5
F	JUNIPER	0.5
F	YAUPON	2
F	JUNIPER	3
F		
HO		
F	GROUND	0
F		
HO		
T		
T		
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HO		
F	JUNIPER	6
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HO		
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S		
F	GROUND	0
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HO		
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HO		
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T		
P	TX OAK	10
T		
HO		
T		
F	JUNIPER	10
F	JUNIPER	8
F	TX OAK	9
F	JUNIPER	10

HO		
HO		
F		
T		
P	ELM	15
F	GRAPE	1.5
F	YAUPON	1.5
F	JUNIPER	8
F	ELM	18
F	JUNIPER	1
P	ELM	16
F	TX OAK	18
F	JUNIPER	4
T		
F	TX OAK	18
F		
HO		
F	JUNIPER	3
P	COTTONWOOD	18
P	TX OAK	15
P	TX OAK	15
F	TX OAK	14
F	JUNIPER	5
F	GROUND	0
F	JUNIPER	3.5
HO		
F		
F		
F		
F	TX OAK	7
F	JUNIPER	7
F	JUNIPER	8
F	JUNIPER	3
F	JUNIPER	4
HO		
F	JUNIPER	10
HO		
HO		
HO		
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T		
P	LIVE OAK	5
S		
HO		
P	TX OAK	12
P	JUNIPER	8

T		
F	JUNIPER	3
F	LIVE OAK	6
S		
HO		
T		
T		
F	JUNIPER	5
F		
F	JUNIPER	4.5
F	JUNIPER	4
F	LIVE OAK	5
F		
HO		
F	JUNIPER	3.5
S	LIVE OAK	7
F	JUNIPER	4
F	TX OAK	6
F	YAUPON	2
S		
F		
T		
F	JUNIPER	3
HO		
F	SYCAMORE	13
F	SYCAMORE	14
F	JUNIPER	6
F		
F	JUNIPER	6
F	JUNIPER	14
F	TX OAK	6
F	JUNIPER	5
F		
HO		
F	JUNIPER	2
F	JUNIPER	4
HO		
F	JUNIPER	6
F	JUNIPER	7
F	JUNIPER	3
F	JUNIPER	4
F	JUNIPER	5
F	JUNIPER	6
F	JUNIPER	5
F	JUNIPER	6
F	TX OAK	10

F	TX OAK	14
F		
F		
F		
F	LIVE OAK	0.5
F	LIVE OAK	0.5
F	LIVE OAK	1
F	LIVE OAK	2
F	JUNIPER	2.5
F	JUNIPER	2
F	JUNIPER	3
F	JUNIPER	1
T		
F	JUNIPER	1
HO		
HO		
F	GROUND	0
HO		
T		
T		
F	GROUND	0
F	JUNIPER	1
F	JUNIPER	1.5
F	JUNIPER	2
F	JUNIPER	3
F	JUNIPER	4
F		
F		
F		
F	GROUND	0
F	JUNIPER	6
F	JUNIPER	5
F	JUNIPER	2
F	JUNIPER	1
F	JUNIPER	2
F		
F	TX OAK	10
F	TX OAK	2
F		
F	JUNIPER	8
F	JUNIPER	9
F	JUNIPER	9
F	JUNIPER	9
F	JUNIPER	10
F	JUNIPER	11
F	JUNIPER	7