

MARCH 2014 WRITTEN REPORT OF SUPERVISOR'S ACTIVITIES EAST PARKS – CRAIG KLINKE, SUPERVISOR

Although it's been a long winter to say the least, it's been a great winter for recreational opportunities. This has been one of the most successful ice seasons in recent memory. The rinks opened earlier than normal and stayed open late into the winter as well. We received many complimentary letters from citizens thanking us for great ice this season. March 2nd marked the last weekend day that we performed ice maintenance. We are beginning to switch gears to perform other necessary maintenance tasks to get prepared for spring. Crews have started to work on converting winter equipment over to summer uses. Tables, barrels, benches, etc are beginning to get repaired and painted. We are beginning our annual seasonal hiring process. We will soon be conducting interviews to fill our vacant Leadworker position and are finishing up the hiring process for our new Parks Arborist position. Soon we will begin the process of removing poor quality ash trees from parks.

We are still performing the necessary work to get through the rest of the winter season. Crews are still performing snow removal duties and minimal ice maintenance activities. We are looking forward to warmer temperatures that will, hopefully, arrive sooner rather than later.

WEST PARKS – LISA LASCHINGER, SUPERVISOR

With below average temperatures extending throughout the month, it's been another great month for winter recreational activities. Crews did an outstanding job performing ice maintenance, and they continue to do so. We used the ice planers again during the last week to help improve the skating surface at Vilas and Elver for weekend use. We also experienced a good amount of snow and some freezing rain, which kept crews busy with snow and ice removal on our assigned routes. In addition, crews were able to do some limited dormant pruning during some brief breaks in weather. We were fortunate to have only had to close the rinks for two days for the entire month, and the rinks are going strong into March.

We will be continuing our preparations for the upcoming season. The seasonal hiring process has begun and we will be conducting interviews the first week of March. Once the ice season comes to an official close, we will be removing and repairing hockey boards and cleaning the warming houses for the upcoming season. We will also continue with repairing picnic tables and barrels as time allows. As the ice season wraps up, we will also begin pre-emptive removal of Ash trees in the parks, as the workload throughout the winter kept us from any of this work. Our mechanics are busy performing spring maintenance on the mowers and will be switching over ice machines as soon as they are able to do so. We're hoping for a gradual warm-up, but are certain that Spring will be here before we know it!

CONSERVATION – RUSS HEFTY

Cold and snowy weather continued in February ranking as the 11th coldest winter on record. Skiing continued to be outstanding until a late February rain storm iced over the trails. March is predicted to have below normal temperatures so spring may be slow in coming.

When time allowed the conservation crew continued working on invasive shrub control at the north end of Heritage Sanctuary. Apparently this area of the park experienced a different disturbance history to allow box elders, buckthorn, and honeysuckle to become established. The remainder of the property has an extremely diverse population of native wildflowers including an outstanding display of white trillium.

The cold winter has benefited our oak savanna restoration efforts at the North Unit of Cherokee Marsh. Heavy equipment can operate without causing soil disturbance because of the deep layer of frost in the ground. Contractors thinned the canopy of 14 acres of oak woodland in January/February. The increase in light reaching the ground will allow native sedges, grasses, and wildflowers to thrive.

MALL CONCOURSE – TOM SKAIFE, SUPERVISOR; LAURA BAUER, LEADSWORKER

As February ends, we're still experiencing extremely cold weather with barely a hint of spring. We've been removing and hauling away accumulated snow so that we'll be able to get the sidewalks cleaned up more quickly when the weather finally does warm.

March is the month we begin preparation for summer. When the threat of winter weather has passed, our snow removal equipment will be removed and stored until next autumn. Mowing decks will be installed and our small mowers and trimmers will be checked over for any possible repair needs. Our grass beds will be raked of winter debris and evaluated for damage since last summer.

Spring flowers are on the way. Plans for the annual pansy installation are finalized, with planting scheduled for the week of April 14th. We certainly hope that we don't have a repeat of last spring's struggle to get the pots thawed in time for planting. We'll also be changing the banners on the pedestrian lights over to the spring images, which are tulips. They may be the only tulips we see for a while.

The Mall Maintenance service area will be expanding as of April 1st. We will be adding the blocks of 400 N. Broom Street and 300 W. Gorham Street, adjacent to and south of State Street. These areas will begin receiving sidewalk picking, sweeping, and cleaning services immediately, and will of course be folded into our snow removal route next winter. Some of these sidewalks are narrower than the rest of our service area, however, and will present some challenges as we work to find the best equipment to use. The sidewalk width may also present impediments to the siting of additional benches, bike racks, and trash cans. What may seem like plenty of room in the summer months can suddenly become woefully inadequate when there is a foot of snow to clear.

The special event season starts slowly, as usual. Look for the Shamrock Shuffle and St. Patrick's Day Parade on March 16.

OLBRICH GARDENS – ROBERTA SLADKY

Olbrich's Spring Show: Dinosaurs & Daffodils opens Saturday, March 8. A great opportunity to partake of Spring! (Hopefully our Madison spring won't be too far behind).

Olbrich staff are preparing for spring and expecting that there will be some repairs to the site because the frost is very deep. The walkways will need some work and possibly the irrigation system as well. The movements of frost in the ground can cause irrigation pipes to break – not because there is water in the pipes as they are completely drained – but because of the force of the movement of the frozen soils. Brick walkways are impacted for the same reasons – they don't always return to their previous positions after frost upheavals.

March's Bolz Conservatory shutdown is a sign of spring also. It is time to prune the tropical trees and let some light into the understory. This project entails the use of a large lift inside the Conservatory that allows Curator John Wirth access to the forest canopy. We compare what happens in the Bolz Conservatory every spring to the natural occurrence of tree-falls in the tropical forests. When a tree falls in a rainforest, an entire patch of forest floor is opened to the sunshine (a light gap), and natural regeneration occurs. Something similar occurs at Olbrich every spring in our 10,000 square foot tropical forest. Also during this time Olbrich's maintenance staff replace the large fans that keep the air moving in addition to performing other maintenance tasks. This year one of two bamboo arbors will be replaced with large diameter bamboo pieces purchased from the University of Georgia's bamboo farm. The Bolz Conservatory reopens Friday, March 21 in the evening for Cocktails in the Conservatory and for everyone else on Saturday, March 22.

Visitor comment from the past month: "Why was Palm tree pruned back but trunk left standing? Why not cut trunk closer to the ground?" Nancy R (2-10-14) Reply from Schumacher Library: "John was hoping to grow vines around the trunk, but they didn't survive. It will be cut back this spring"

October Numbers

OBG Attendance (counted from 9 – 4 only + event participants)	2014	2013	Previous 5 yrs average
January 1 – 31	10,331	9,019	10,338
YTD January 31	10,331	9,019	
Total Member Households (individuals*) December 31	6,226 (10,002)	6,375 (9,803)	

**based on the number of membership cards issued*

OBG City of Madison Major Revenue Categories (unaudited)	YTD 1/31/2014	YTD 1/31/2013
Bolz Conservatory Admission YTD	\$4,920	\$4,728
Room Rentals YTD*	\$9,468	\$10,204
Catering Percentage Revenue YTD**	\$3,189	\$510
TOTAL YTD	\$17,577	\$15,442

**accrued at time of booking – up to 21 months before the rental date, ** accrued on a monthly basis following each catered rental*

March 2014 Public Events at Olbrich Botanical Gardens call **608-246-4550** for more info

Spring Flower Show: Dinosaurs & Daffodils, March 8 – 23, 10 – 4 daily,
\$3 age 13 and up, \$2 age 3 – 12

Primrose (Primula) Sale, Saturday, March 8, 9 am – until sold out

Bolz Conservatory Closed for Maintenance, March 10 – 21

Cocktails in the Conservatory, Fri, March 21, 7 – 11 pm, \$6 admission; tropics, cocktails and DJ Trichrome

Spring Show Used Plant Sale, Monday, Mar 24, noon – 4 pm or until sold out

Winter Concert Series: Sundays, 2 – 3 pm unless noted

March 2 – **Lazydeadpoets**

March 9 – **First World Probl3ms**

March 16 – **Kicks for Kids: Duke Otherwise**

March 23 -- **Botanical Boogie** (w/ dance floor) 2 – 3:30 pm: **Funky Chunky Band**
(\$2 admission)

March 30 – **The Mascot Theory**

Education – March 2014 classes and programs 608/246-4550 for info/registration or visit www.olbrich.org

Wellness at the Gardens

Yoga, Mondays 5:30 pm – 6:45 pm and Thursdays 7:30 – 8:45 am (drop in OK)

Tai Chi Meditation, Mondays, Jan 27 – March 17, 6 – 7 pm

Garden Walk

Behind-the-Scenes Greenhouse Tour, Sat, Mar 1, 1 – 2:30 pm

Classes & Workshops for Adults

Pruning Pointers Workshop, Sat, Mar 1, 9 am – noon

Pastel Expressions: Celebrate Spring!, Sat, Mar 1, 9:30 am – 12:30 pm

Under-utilized Woody Plants for Wisconsin Landscapes, Tues, Mar 4, 6:30 – 8 pm

Permaculture Systems on Your Property, Thu, Mar 6, 6:30 – 8:30 pm

Death by Chocolate Tea Party, Sat, Mar 8, 1:30 – 3:30 pm

Elements for a Pollinator's Paradise, Tues, Mar 11, 6:30 – 8:30 pm

Gardening With Flowers for Drying, Wed, Mar 12, 6:30 – 8 pm

Pine Needle Basket Weaving Workshop, Sat, Mar 15, 10 am – 4 pm

Growing Unusual Fruit, Sat, Mar 15, 1 – 3 pm

How to Make Bentwood Trellises, Thu, Mar 20, 6:30 – 8 pm

Fruit Tree Grafting, Sat, Mar 22, 1 – 3 pm

Scionwood Exchange (Fruit Tree Grafting) Sat, Mar 22, 3 – 5 pm

Native Plants for Any Garden, Tues, Mar 25, 6:30 – 8:30 pm

All About Willow, Sat, Mar 29, 10 am – noon

Rustic Willow Trellis Workshop, Sat, Mar 29, 1 – 4:30 pm

Top Fifty Plants for Birds in Wisconsin, Sat, Mar 29, 1:30 – 3 pm

Learn & Play Together

I Wonder...? Series (grades K – 3 with adult)

How is Paper Made? Fri, Mar 7, 6:30 – 7:30 pm

Toddler Story and Stroll: Rainforest Romp Series (ages 2 – 4 with adult)

Animals in the Rainforest, Tues, Mar 4, 10 – 11 am

Morning in the Rainforest, Sat, Mar 29, 8:30 – 9:30 am (Grades 1 – 5 with adult)

FORESTRY – MARLA EDDY

Forestry Section	Total Trees	Total Hours
Cycle Pruning	41	38
Pruned by Request	446	541
Small Tree Pruning Cycle	795	303
Tree Removals (non EAB preemptive)	32	96
Ash Preemptive Removals	176	337
Storm Work/Hangers		11
Snow Plowing		169
Snow Removal		287

Through the process of visual inspecting trees for EAB in areas where we only have smaller diameter ash that would not be included in the branch sampling project, a third pocket of EAB was found along the 4600 blk of Femrite Dr.

Forestry continued to preemptively remove ash trees near the three infestation zones on the East side – a total of 176 ash trees were removed in February. A total of 443 ash trees have been removed preemptively since the first pocket of infestation was found.

Midway through the month of February the Forestry Section began EAB branch sampling. This sampling was done the same time last year. Branch samples will be collected from 103 locations and peeled to look for the presence of EAB galleries or larvae.

February was another snowy month and required snow removal service. Forestry continued to prune trees in advance of 2014 road construction projects.

Forestry Specialists continued to inspect ash trees on the east side to determine if they can be treated or if they should be marked for preemptive removal.

PLANNING AND DEVELOPMENT – KAY RUTLEDGE

Central Park

The construction of Phase 1A was substantially complete on January 14th. Work to be completed in the spring includes fine grading and seeding adjacent to the restroom facility, pressure testing the irrigation system, and completion of punch list items from the January 14th inspection. A temporary crossing has been installed in order to correlate the necessary work with the railroad, in accordance with the OCR's recent supplemental order. Construction of Phase 1B and the skatepark are scheduled to occur in 2014.

Highland Manor Park

The consultant is working on plans and specifications to go out for bid in March. The project has also been submitted for site plan review, the consultant is making some revisions to the plans to reflect the comments received.

Warner Park Boat Launch Dredging

The dredging started December 16th. It's been a bit of a struggle with the early onset of winter but Cattell completed the dredging by the contract completion date of January 10, 2014.

Central Park Skatepark

The design consultant team, Stantec and MSA, continue to develop the design for the Central Park skatepark. Two well-attended public meetings have been held to gather input from area skaters and neighborhood residents. A variety of site challenges have been identified, including high ground water and poor soils; the consultants are working on solutions to address these issues. The project is anticipated to go out for bid in May.

Reservoir Park Playground

Due to the early snowfall and below average temperatures, the construction deadline for Reservoir Park Playground will be extended to Spring 2014. Staff continues to work with the neighborhood and the Water Utility on the restoration plans to stabilize the slopes along the reservoir in conjunction with the construction of the new Booster Pump Station at Reservoir Park.

Sauk Creek Park Playground

Staff has begun design development for replacement of the existing playground at Sauk Creek Park. Staff held a Public Input Meeting on November 11th to discuss the proposed playground project, and had a subsequent meeting on December 19th with the neighborhood to finalize the playground design. Plans were approved at the Board of Public Works on February 19th, and will be advertised to bid on March 14, 2014.

Haen Family Park Playground

Staff has begun design development for replacement of the existing playground at Haen Family Park. Staff held a Public Input Meeting on December 2nd to discuss the proposed playground project, and had a subsequent meeting on January 14th to finalize the design. Plans were approved at the Board of Public Works on February 19, 2014, and will be advertised to bid on March 14, 2014.

Droster Park Playground

Staff has begun design development for replacement of the existing playground at Droster Park. Staff held a Public Input Meeting on December 2nd to discuss the proposed playground project, and had a second playground meeting on January 29th to finalize the design. Plans were approved at the Board of Public Works on February 19, 2014, and will be advertised to bid on March 14, 2014.

Pilgrim Park Playground

Staff has begun design development for replacement of the existing playground at Pilgrim Park. Staff held a Public Input Meeting on December 10th to discuss the proposed playground project and will hold a second playground meeting February 4th to finalize the design. Plans were approved at the Board of Public Works on February 19, 2014, and will be advertised to bid on March 14, 2014.

Everglade Park Playground

Staff has begun initial design development for replacement of the existing playground at Everglade Park. Staff held a Public Input Meeting on December 11th to discuss the proposed playground project, and had a second meeting on January 23rd to finalize the design. Plans were approved at the Board of Public Works on February 19, 2014, and will be advertised to bid on March 14, 2014.

Westport Meadows Park Playground

Staff has begun initial design development for replacement of the existing playground at Westport Meadows Park. Staff held a Public Input Meeting on December 18th to discuss the proposed playground project and will hold second meeting on February 3rd to finalize the design. Plans were approved at the Board of Public Works on February 19, 2014, and will be advertised to bid on March 14, 2014.

Splash Pads

Splash pad bids were opened on February 21st. There were 3 bids and all came in above the consultants' estimates; staff is evaluating the bids and options to fill the gap in funding.

Breese Stevens Field Lighting/Sound System Improvements

The contractor started work in early January. It has been slow going for the first few weeks. The existing poles were taken down February 13th. The contractor has left the site until the weather breaks at which time they will mobilize again and complete the project. Completion date for this project is May 24, 2014.

Lucy Lincoln Hiestand Playground

Staff has begun design development for replacement of the existing playground at Lucy Lincoln Hiestand Park. Staff held a Public Input Meeting on February 23rd to discuss the proposed playground project. A subsequent meeting is scheduled for March 19th.

Bowman Field

Forward Electric has installed the new conduit lines and lighting control panel at Bowman Field. Remaining work for spring includes connecting the control panel to the new transformer and test energizing the system. The second phase of this project will include new light fixtures and refurbishing the existing poles in the fall of 2014. During the interim between phases the field lights will continue to be served by the existing electrical system.

Athletic Field Lighting Upgrades

Equipment to retrofit some of our athletic field lighting with "Control Link" – a program that will allow us to control (turn on/off) the lights from a computer terminal – arrived the first week of December. To start, we will be retrofitting the lighting systems for Elver softball and Demetral softball. Park Operations hopes to install the systems spring of 2014.

Tenney Park – Marston and Sherman Avenue Bridges

The project was approved by the Landmarks Commission on February 3rd. Plans and specifications are complete and the project is presently out for bid with bids due on March 7th. Construction is estimated to start the first week of May 2014.

Hoyt Park

Clearing and Phase 1 of the fence repairs was completed in November. Staff is working on the design for Phase 2 fence repairs to be completed Summer 2014.

Brittingham Park at Proudfit

Construction was originally scheduled to occur in the fall of 2013, but City Engineering and the Wisconsin Southern Railroad have raised concerns regarding the existing site drainage. Given the additional study required, and necessary OCR approval, it's anticipated the project will be constructed in fall of 2014.

Warner Park Bike Path

The project is complete with a small amount of restoration work remaining. Staff is working on locations for additional benches and trees along the new path, to be installed in spring.

Westside Dog Parks

New dog parks have been approved for both Walnut Grove Park (the old skating area), and Odana School Park. The infrastructure (sidewalk and fence) are in at Odana. Our own crews have installed doggie bag dispensers, trash bins, etc. The kiosk has been ordered and will be installed as soon as weather allows; the dog park has been opened. Work by our Construction Crew on the Walnut Grove dog park was delayed due to the wet, snowy end of November. The Construction Crew will hopefully start the grading work for this project early in 2014, with completion planned for summer.

Forest Hill Cemetery

Masonry repairs continued in 2013 for the buildings at Forest Hill Cemetery. Joe Daniels Construction completed work on the Chapel and the Receiving Vault. While the work on the Chapel is holding up well, some of the mortar applied on the Receiving Vault will need to be replaced as the temperatures were too cold for this work to bond correctly. This project is managed by City Facilities Management in partnership with Parks staff. Staff is also working with cemetery staff and Feick Design – an irrigation design company - to come up with a new waterline system for the cemetery.

Northland Manor Storm Sewer Replacement

Staff is working with City Engineering on a storm sewer replacement project in Northland Manor Park. The project was nearly completed by Engineering staff before winter; a small section of storm sewer remains to be installed. This project was approved administratively by the Parks Superintendent.

Garver Mill

The building condition study was presented to the Park Commission at their meeting in September; City Planning has been asked to prepare an RFP to hire a consultant to evaluate potential alternative uses for the building. The RFP will be brought back to the Park Commission in March. This project is managed by City Facilities Management in partnership with Parks staff.

Olbrich Park Canoe Launch

Staff is working with City Engineering on a canoe launch at Olbrich Park near the canoe racks. Parks staff met with the Alder and Engineering to review the project on December 5th; a public input meeting was held on January 15th to discuss the project with the neighborhood. This is a 2014 Capital Budget project that will be managed by City Engineering in partnership with Parks staff.

Yahara River Bank Stabilization

Staff is working with City Engineering on improvements to the Yahara River to stabilize the stream bank where the existing wooden retaining walls are deteriorating. The section from Rutledge Street to Jenifer Street, along the eastern shore, has been identified for spot improvements. Parks staff met with the Alder, Engineering and a representative from the Friends of Yahara River Parkway to review the project on December 5th; since a public input meeting was previously held for this project, Engineering will be sending out a letter to area residents to provide updated information regarding scope and construction timing. This project is managed by City Engineering in partnership with Parks staff.

James Madison Park Shelter

Destree Design was hired to perform an assessment of the existing shelter at James Madison Park. The final report includes recommendations for three levels of improvements; shelter stabilization, current code requirements, and potential build-out improvements; a draft of the report is under review. Staff and Destree Design held a neighborhood input meeting on October 23, 2013. At this meeting a wide variety of opinions regarding improvements to the park and shelter were expressed. Parks staff is investigating the use of an on-line survey tool to reach a larger audience for input.

Breese Stevens Field Artificial Turf

A project schedule has been developed and we are in the process of evaluating artificial turf options. Two public input meetings have been held, with user groups on February 12th and the general public on February 18th. We plan on presenting the project to the Tenney Lapham Neighborhood Association on March 13th.

2014 Park Landscaping

Bids were opened for the 2014 Park Landscaping contract on February 21, 2014. The only bidder was Madison Commercial Landscapes for \$139,988.75. The contract is going through the approval process.

2014 Park Paving Contract

Staff is beginning initial design development for the 2014 Paving Contract. Evaluating various combinations of the work in an attempt to find the best way to package the variety of work we have in 2014 to get the best prices.

Yahara Hills Clubhouse

Parks staff met with Facilities Management to begin initial design development for the improvements to the Yahara Hills Clubhouse. Potential improvements include replacement of the roof with additional insulation and other improvements to the building envelope to improve energy-efficiency for winter operations in the future. An evaluation of the HVAC system is also underway. This project is managed by City Facilities Management in partnership with Parks staff.

Incident	2													2
Maintenance	60													60
Misc	1													1
Not Open	8													8
Overflowing Trash	1													1
Parking issue	12													12
Sport Without Reservation	0													0
Vandalism	0													0
Negative Reports	144	0												144
Positive Reports	63	0	0	0	0	0	5	0	0	0	0	0	0	63
Ratio Neg Divided by Pos	2.29													

2014 Top 5 parks per negative call

	1	2	3	4	5
Jan	Warner	Tenney	Elver	Olbrich	Odana
Feb					
Mar					
Apr					
May					
Jun					
July					
Aug					
Sept					
Oct					
Nov					
Dec					

2014 Top 5 parks per positive call

	1	2	3	4	5
Jan	Tenney	Olbrich	Warner	Odana	Yahara Hills
Feb					
Mar					
Apr					
May					
Jun					
July					
Aug					
Sep					
Oct					
Nov					
Dec					

2013 comparison

Month	Jan 2013	Feb	Mar	Apr	May	Jun	July	Aug	Sept	Oct	Nov	Dec	2013 Total
Alcohol Related Issue	6	3	2	10	18	23	23	8	11	8	0	0	112
Behavioral Ban	0	1	0	2	7	26	17	6	16	6	1	0	82
Check Area	26	13	10	29	55	82	152	104	66	51	41	28	657
Citizen Complaint Taken	0	0	2	4	13	16	12	15	12	3	1	3	82
Positive Customer Contact	45	70	35	53	134	151	168	189	117	61	18	30	980
Damage to Property	4	4	0	5	4	4	6	4	4	5	3	1	44
Dog Violation	4	6	18	37	34	21	11	13	4	4	7	1	160
Drugs	0	0	2	1	3	1	7	4	4	1	0	0	23
Event without reservation	1	0	0	0	1	0	5	8	0	1	0	0	16
Found Property	7	14	4	7	12	9	17	17	19	11	7	1	108
Graffiti	1	0	3	6	13	7	7	6	4	5	0	0	52
No Permanent Address Issue	11	19	9	12	10	38	28	21	21	9	2	3	183
Incident	13	11	2	4	3	7	10	3	10	8	0	0	71
Maintenance	17	39	7	30	64	101	133	82	75	49	21	34	652
Misc	1	0	1	2	6	23	2	10	6	1	4	2	68
Not Open	1	8	8	18	18	21	15	22	23	25	7	12	168
Overflowing Trash	6	0	2	3	2	1	4	4	1	1	1	2	27
Parking issue	9	20	11	12	69	50	67	41	23	19	5	0	326
Sport Without Reservation	0	0	1	29	1	0	0	1	0	1	0	0	33
Vandalism	2	2	1	0	0	0	0	0	0	1	0	0	6
Negative Reports	108	140	81	209	322	407	485	359	279	208	96	85	2779
Positive Reports	46	70	35	55	140	174	170	199	123	62	22	32	1128
Ratio Negative Divided by Positive	2.34	2	2.31	3.8	2.3	2.34	2.85	1.80	2.26	3.35	4.36	2.66	2.46

2013 Top 5 parks per negative call

	1	2	3	4	5
Jan	Tenney	Olbrich	Warner	Demetral	Elver
Feb	Warner	Olbrich	Brittingham	Tenney	James Madison
Mar	Olbrich	Warner	Elver	Door Creek	Olin
Apr	Warner	Olbrich	Elver	Brittingham	Hiestand
May	Olbrich	Warner	Vilas	James Madison	Brittingham
Jun	Warner	Reindahl	James Madison	Olin	Olbrich
July	Olin	Elver	Vilas	Brittingham	Warner
Aug	Olin	Warner	Elver	Olbrich	Demetral
Sept	Demetral	J Madison	Olin	Burr Jones	Olbrich
Oct	Warner	Burr Jones	Hiestand	Elver	Tenney
Nov	Warner	Elver	Olin	Eastmorland	Tenney
Dec	Elver	Tenney	Olin	Vilas	Odana