

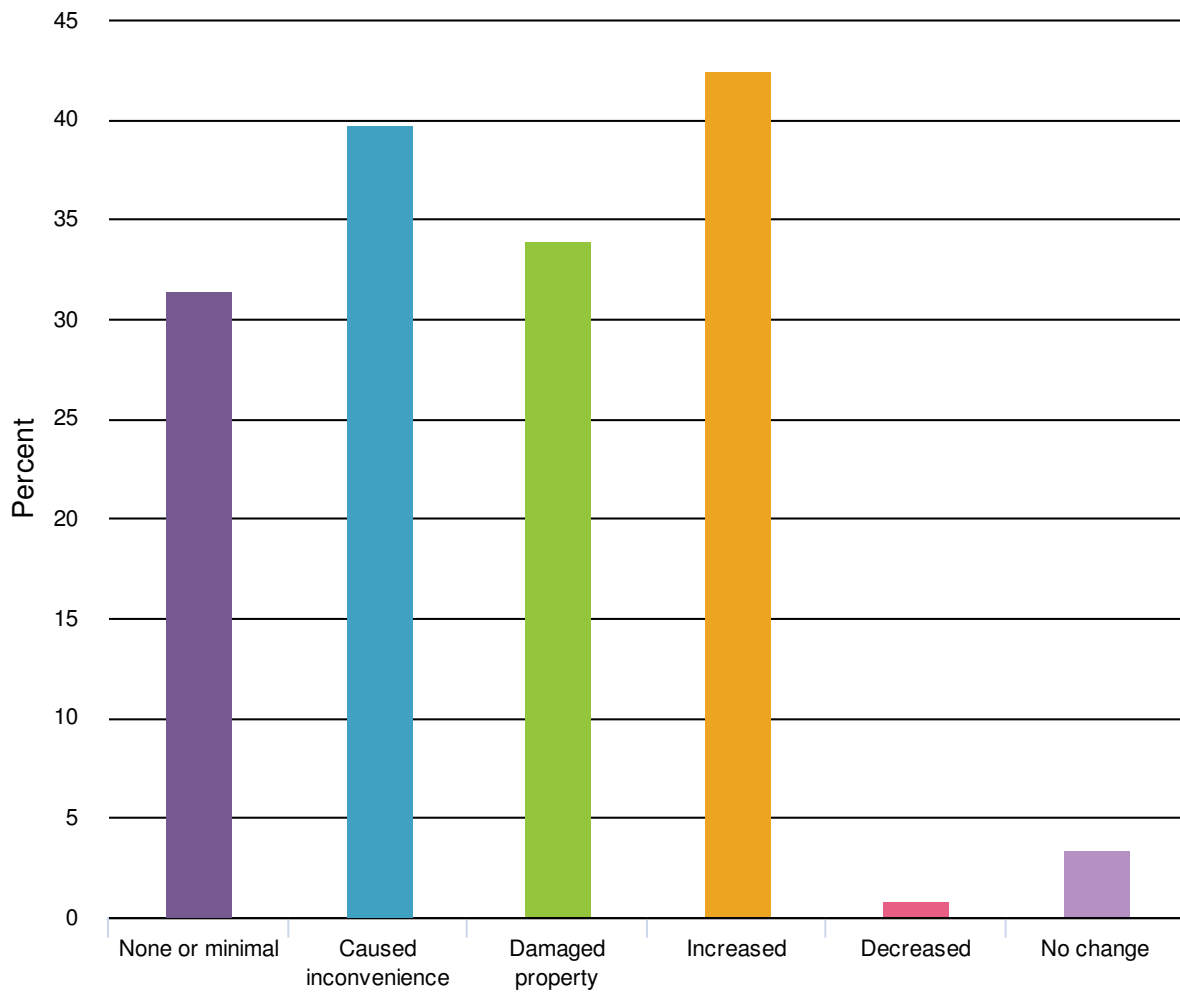
Cedar Mill Creek Flood Remediation Collaborative

Survey 1 - Fall 2017



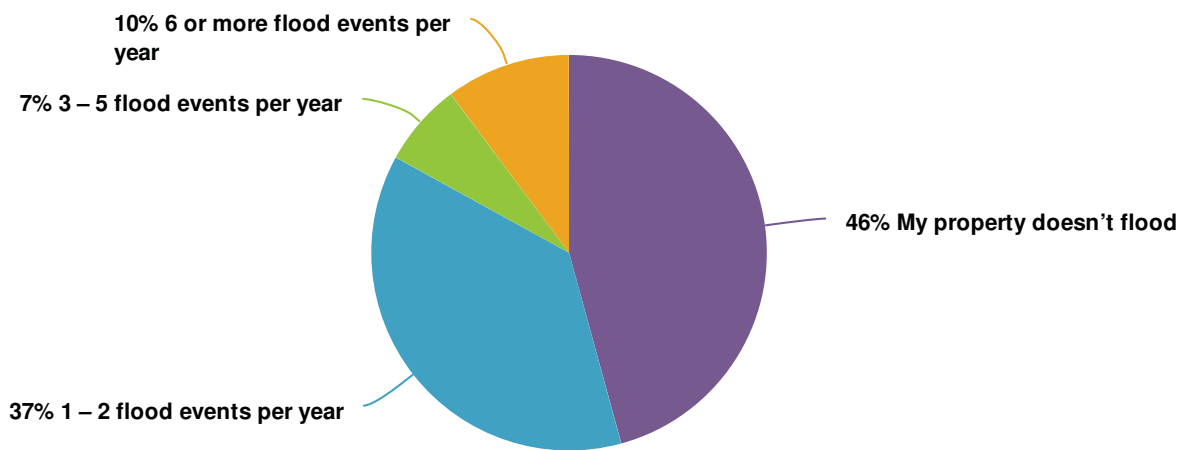
Totals: 118





1. Within the last 10 years, what is your neighborhood's experience with flooding? Please mark all that apply.



Value	Percent	Responses
None or minimal	31.4%	37
Caused inconvenience	39.8%	47
Damaged property	33.9%	40
Increased	42.4%	50
Decreased	0.8%	1
No change	3.4%	4

2. How many times per year do you experience flooding events on your property?



Value		Percent	Responses
My property doesn't flood		45.8%	54
1 - 2 flood events per year		37.3%	44
3 - 5 flood events per year		6.8%	8
6 or more flood events per year		10.2%	12

Totals: 118

3. Where is the flooding? (For example, in my yard, in my house, on my street, from neighbor property, from stream swelling.) How long does it last?

Count	Response
2	N/A
1	The back of our yard, where Mill Creek runs through.
1	At Commonwealth park, but flooding should happen within a flood plain. Don't live in the flood plain!
1	At the end of the street. My house is at the highest point of SW Camellia and the flooding is at SW 126th & SW Camellia (the lowest point). Last year the flooding lasted several days.
1	Backyard and on my street (SW 126th Avenue)
1	Backyard has Johnson Creek going through it. Every time we get 1in or more of rain in 24h the creek overflows the banks. We have to make sure nothing is near the creek in the winter. That may float away. As we have lost a few potted plants and other yard decorations.
1	Backyard, the bank is washing away because of trees, and garbage
1	Cedar Mill Creek flooded NW Cornell Road by NW 119th Ave. Cannot remember how long it lasted.
1	Cedar Mill Creek runs along the eastern edge of my property (back yard) and has come over the bank twice in 2015 and crested but did not come over twice last year. My neighbors say nothing happened in this neighborhood in the flood of 1996 so something has changed. The creek is heavily overgrown and the banks are eroding. I suspect that developments on the north side of Highway 26 have changed the run-off patterns and the culverts to the south toward Commonwealth Lake cannot handle the increase.
1	Depends on the amount of rain and how long it rains
1	Driveway/workshop

Count Response

1 During heavy or sustained rainfall, ground is unable to absorb water and crawl space floods. Occasionally street storm drains will not flow and water backs up in cul-de-sac, breeches driveway and flows into garage.

1 Flooding is in the yard and driveway. Lasts a few hours.

1 Flooding is up to my back door from stream swelling. I use sandbags to keep it out of the garage and house.

1 Flooding on Rita. Flooding in our backyard and goes under house. Lasts a couple of days. A few of the house on Rita right by the curve flooded even with sandbags.

1 From neighbor property. Some pooling of water if it rains hard enough that sump pump can't pump fast enough. We lack enough storm drains so the water sometimes backs up on the street because it has no where to drain

1 High water we see is where Cedar Mill Creek passes underneath Cornell Rd to Cedar Creek Falls, then downstream to Barnes. Since the creek has a wide riparian area, flooding seems minimal. During high rain events, the creek seems to increase dramatically in volume over a few hours, than decreases within hours as the rain dissipates.

1 I'm my backyard up to the outside of our house and on our street.

1 In Commonwealth lake area.

1 In backyard and in front street, happens during heavy rains when storm drains clog with leaves in the fall, and beaver dams slow down stream flow behind house.

1 In my back yard. But according to the watershed map my home is outside the watershed. I live in the Pheasant Park area.

1 In my backyard. I can see holes in my dirt and it looks like an underground river is flowing during mild rains.

1 In my backyard. In my front yard and driveway.

1 In my front yard and driveway all the example pictures you have provided on this of how bad it gets are literally of my street.

1 In my yard

1 In my yard and crawl space. Also in the street

Count Response

1	In my yard and under the house. Lasts about 4 weeks.
1	In my yard, crawl space and sometimes street
1	In my yard, on my street from stream swelling
1	In my yard, on my street, neighbor's property. Prior years has been in my house.
1	In my yard, on neighborhood streets, due to swelling of Common Wealth Lake. It has been in the past 4 to 5 years the flooding has increased ever since Killpack Lane homes were built on designated wetlands and no new drainage fields were dredged. This has now caused us to put up a sand bad barrier around the property.
1	In my yard, under my house and in my garage.
1	In recent years our yard is flooded 8 months of the year.
1	In recent years, the water in Cedar Mill creek has come up to the very top of the bank, which it would never do when we first moved into this home in 2008. It lasts as long as the very heavy rain, then goes back down.
1	In the backyard and under the house
1	In the two years we have owned this house, we have not experienced any flooding.
1	In the yard, garage and under the house.
1	Most of Devonshire Dr from Foothills
1	My back yard fills with water - I'd say about 30% of the yard. It's increased in recent years so much that in the spring, ducks come in and think they're going to nest there. The sump pump in my crawl space is working regularly during the fall, winter and spring to keep the house dry. So far.
1	My back yard turns to a large pond during the rainy season. I have heard that a previous neighbor built a berm to contain the water and prevent it from flowing over their property. It is an inconvenience but has not damaged any property.
1	My property doesn't flood, but the culvert on our property that is supposed to help the creek flooding issues has flooded into our neighbor's backyard on Perfecta Ave. Several of our neighbors on Perfecta Ave. and Tropicana Ave. have mentioned flooding issues in the past few years from a culvert behind Tropicana Ave. houses.

Count Response

1	My property is not affected, but it impacts the surrounding areas. Which causes issues with commutes and neighboring properties. It depends on the year for how long it lasts. But it can, during very rainy times, last for weeks.
1	N Johnson Creek, which flows behind my house, partially floods my backyard 1 to 3 times a year and sometimes approaches the foundation of my house. On two occasions in the last ten years the stream has back-flowed through the storm drains and has flooded 126th Ave and then has flooded my driveway. On Dec 7, two years ago the flood water went into my garage and crawl space. This caused approximately \$15,000 of repair work to the crawl space. Even at partial flood stage the stream goes from about 8 ft wide to 50 to 60 feet wide and raises 6 to 8 feet above it's normal level. It is at least 3 feet higher on the north side of Butner Rd. than it is on the south side due to the restrictive nature of the current culvert. My neighbors and I have petitioned for a larger culvert to help alleviate some of the stream swelling. We are under the impression that a culvert enlargement will be a part of the solution to flooding implemented by the Oregon Solutions Team. Partial flooding even
1	NA
1	None
1	Normally the street floods up to and onto our driveway. Occasionally the creek will overflow and flood through the backyard, the side yard and into the street. In December 2015 it was so bad, for the first time since I've lived in this house (moved in March 1980) I had to sandbag in order to keep the water from coming into the house.
1	On Cornell, the street directly behind my house, the waterfall at 119th and Cornell, has become flooded and covered almost half of Cornell road. I don't remember that happening as often or as severely 10 years ago as it did just last year.
1	On my street due to over capacity storm drains.
1	On street in front of my house going at least halfway up driveway
1	Our property does not really flood, but we are noticing more water at the base of our driveway, forming a flow a couple of feet wide a couple times a year. Because of the elevation and slope, the water doesn't linger after the rains stop.
1	Our property is just outside of the lines, however, we experience high levels in our backyard, and it has impacted our basement. We have installed a sump pump, and french drains.

Count Response

1 Run off from up the slope/hill builds up against the uphill side of the house and has in the past seeped into the basement. A sump pump has corrected that however the volume of water in the street during heavy rains, jumps the curb, runs down the driveway and off to the side yard where it creates a temporary stream down thru the vegetation there.

1 Runoff from yard filled bottom floor of house. Down the street have to detour for creek when it rises. Almost to bottom floor of homes next to creek and road is impassable.

1 Standing water in Back Yard. Almost to the level of the Porch. Standing water in Front Flower Bed. If street drain plus, street flooded and had to sandbag house just in case 2 years ago (2015)

1 Stream is swelling near my yard. This lasts 3-5 days.

1 Stream swelling

1 Stream swelling

1 Stream swelling every time it rains. Can last for hours depending on the rain

1 Stream swelling in Johnson Creek before entering culvert under Butner Rd. Stream swells to cover a large portion of my yard and require immediate steps to prepare for possible water in home. Water will rise very quickly due to high flow and small culvert size. Will typically remain high for 24 hours after end of rain event

1 Street

1 Street and Creek

1 Street and up to garage doors, and covers front yard.

1 Street flooding on NW 93rd Ave. There used to be drain on the east side of the street at Cornell Rd. but it was covered and now water flows across the road.

1 Streets and ditches. Dissipates as rain stops.

1 The Flooding happens In my backyard from the creek filling during heavy rainfall. Water crests the top of the creek and the water pressure gets so high, that water comes up into the yard through mole/vole tunnels, and floods the yard and into the street. Water has also come over my neighbors back and flooded the neighborhood further down the street.

1 The St. Andrew Lutheran Church wetland area get the flooding.

Count Response

- | Count | Response |
|-------|---|
| 1 | The flood water frequently enters our yard. However, this generally last a few hours or days. We have only lived in our house for 3 years and the flood water has entered our crawl space causing just under \$5,000 worth of damage. |
| 1 | The flooding is in my yard and continues to get closer and closer to my house every year |
| 1 | The stream by my house and the park by my house floods. |
| 1 | There is a seasonal creek on one side of property. This year we also had water in basement after February rain. |
| 1 | There was some minor collection of water in my back yard, and on the side of our house. We needed to install a Sump pump to pull it out, and some of it actually got under our foundation. Now that we know how to manage it, it doesn't seem to be a problem. It comes from a neighbor's house flowing into our yard. It got worse once new construction was built adjacent to our backyard. |
| 1 | Under house in crawl space install of drainage pipes |
| 1 | Water runs down our hill on the streets and sidewalks directly into the woods which is going to be developed in the next year. As well, The street drains clog from debris. The neighbors who boarder recently developed land have experienced heavy water flow and flooding in their yards. The neighbors that border future development and down hill will be in trouble. That land absorbs a lot of water. |
| 1 | We get puddles in the yard which are significant, but I wouldn't call it flooding. Our property has a french drain and requires two sump pumps to keep handle all the standing water. |
| 1 | Yard - days of heave rainfall/stream overflow |
| 1 | Yard and street can be flooded for several days at a time. |
| 1 | Yard yearly, house for the first time last year (Jan. 2017). Lasts 2-7 days. |
| 1 | Yard, street. Lasts a few days |
| 1 | Yard. Only during periods of heavy rain fall. |
| 1 | Yard. Depends on the amount of rain, if sustained then lasts as long as rain does. If heavy rain happens quick then goes away quick flooding usually stay less than 1 day |

Count Response

1 backyard

1 in back yard, on my street. It lasts several hours to 1-2 days.

1 in our crawl space; water can sit in crawl space for months.

1 na

1 water would pond in driveway during a large storm- water comes from street and neighbors

4. Please describe how flooding has affected your property.

Count	Response
3	N/A
2	None
1	2015 creek flooded the crawl space under the house. thanksgiving 2016 creek flooded ruining some landscaping and lifting out a 20ftx 8x10 board that was part of the flower bed between deck and creek. Large potted plants lost (~400lbs) in a 2ftx4ftx3ft cow tank. creek bank erosion.
1	Although a large part of our property borders Cedar Mill Creek, our house elevation is high enough that it doesn't experience flooding. The highest the water level has risen in the creek near us is about 2/3 up. However, some runoff from the culvert collects on our property and has flooded our neighbor's yards.
1	Before I bought the house (May 2016) in November of 2015 the neighbors showed me pictures of flooding on my property. One support post under the house was affected.
1	Carpet/floor damage
1	Constantly worried about my home flooding, I have had vehicles flooded and now have to pay an additional \$2,000 per year in mandatory flood insurance. My driveway floods nearly every time it rains now that the new subdivision was built off of Butner by the fire station.
1	Couldn't get to my property or out of the neighborhood.
1	Damaged carpet in basement and items stored in cardboard boxes. Needed to update french drain and add sump pump to water management system in basement.
1	December of 2015 the water reached a level where it entered our crawl space, damaging the insulation under our house, and getting into the forced air vents of our house. The flood water caused just under \$5,000 worth of damage. The flood insurance deductible is \$5,000. We had to have the insulation removed, air ducts cleaned and had the area tested for possible mold damage.
1	Disabled sewage pump. Garage cleanup.

Count Response

- | Count | Response |
|-------|---|
| 1 | Driveway is crumbling, bark chips float away. Needed to replace the lower bark chips with railroad ties and gravel which helps some |
| 1 | Flooded crawl space, flooded garage with damage to things stored in garage. |
| 1 | Flooded yard and storage shed. Flooded street, impacting access to home. |
| 1 | Flooding has not personally affected my property. |
| 1 | Flooding has undermined the cement slab in the yard and has seeped under the foundation to under the house. In the middle of hardscaping right now to fix water from surrounding properties. Almost 50K. |
| 1 | Floods the back yard and lawn for about 7 -8 months |
| 1 | Had to buy flood insurance which dramatically increased once FEMA took over. Now, almost as much as my mortgage, property taxes, and Reg Home Owners Insurance combined. My house is on the boarder so I made the offer on the advise that is was not in the flood zone. Upon further research by T itle Company, it was just barely in but at that time with closing in 2 days, I had to purchase flood insurance. This happen a couple years before FEMA took over and now it is out of control. With the standing water, we have removed all the grass from the back yard and went with gravel only. We have since put in an elevated putting green / green space for the grandkids. We also have a sub pump standing by. Water gets into the crawl spaced from underneath due to the high water table so on any repair or remodel, usually find some dry-rot. |
| 1 | Hasn't, we're higher than the lake/creek area. |
| 1 | Have to put sandbags around my house to keep flood water from coming into my house - run off from Butner Rd |
| 1 | I ended up with about four inches of water in my car that was parked in front of my house. |
| 1 | I have a hard time keeping plantings alive with their roots so wet most of the year. |
| 1 | Increased volume of water coming down Cedar Mill creek is eating away our bank in the back yard, causing our property to fall into the creek. Creek seems to be slowly widening. Large logs, branches and other garbage becomes stuck due to a falling tree (not on our side of the creek) and last year caused a huge log jam, which resulted in the water undercutting our bank even more. |
| 1 | It does not allow me to use the majority of my backyard in the winter months |

Count Response

1 It has affected my lawn and plants and left debris in my yard. It has caused a lot of work putting out sandbags.

1 It has not

1 It has not really affected it as the flooding recedes after a few hours. It comes on suddenly and goes down suddenly.

1 It has not.

1 It has reached the outside of our house. It did not get the inside of our house wet, but it has weathered the siding. It has also caused erosion on the banks of Johnson Creek that runs through our backyard. We sand bag our property 2-3 times per winter which is extremely stressful.

1 It hasnt, in not in the flood plane , because im at the top of the hill and on the high side of the stream. But i live on the stream. and have watched it for 25 years. As building in the west hills has developed. I clean the stream of garbage every year.

1 It is swamped duringvglood times, but structure not affected

1 It makes it very difficult to harvest and maintain our ground that we are raising a crop on. When we moved here in 1993 our field would flood a couple times a year during heavy rain events and then drain right back down. The last few years the water level in the creek stays higher year round with flooding common and often. I think the level in the creek comes up a little bit each year. The last time I remember the creek being cleaned out was after the 1996 flood. It looks to me like we are overdue for some creek cleaning and beaver control or the problems will keep getting worse.

1 It makes the grass really soggy, and the seeping into our foundation caused it to crack (the pressure from the water) and we had to have it repaired professionally (we are on a slab). I am concerned about mold issues but it doesn't seem to have been a problem yet, but I try to stay vigilant.

1 Massive amounts of water in yard

Count Response

1 My back yard is partially flooded 1-3 times a year. On Dec 7, two years ago the flood water went into my garage and crawl space. This caused approximately \$15,000 of repair work to the crawl space, which I paid out of pocket. I do not have flood insurance at this time because I paid cash for my house and it is therefore not required. I was under the impression at the time I purchased my house 10 year's ago that the 100 year flood was in 1996 and the likelihood of a major flood was small. Even my home insurance agent suggested that I not get flood insurance. I am now looking into flood insurance. Weather changes plus multiple housing unit construction projects on the flood plain south of me and further development north of me have seemingly increased the frequency and severity of the flooding in my neighborhood.

1 My back yard is slippery/slushy and basically unusable all winter. My garage flooded causing damage to my personal property last December 2016.

1 NA

1 Neighbors want us to keep a channel open on the east side so that water doesn't flow across the road and on to their property. No real flooding on our property since 1996. My husband installed drainage in the backyard to channel water around the house.

1 No affect on property. Some street flooding has required alternate routes.

1 Not directly

1 Not directly, only from the rains and runoff.

1 Nothing has happened yet

1 Our basement experiences moisture through our fireplace. We have a sump pump to eliminate moisture, but on truly bad rainy, wet years, our fireplace is wet and the walls are impacted. I know our neighbors have also experienced high water levels.

1 People still insist on driving thru flooding and that pushes water further up to houses.

1 SOGGY BACKYARD. Other than that it is ok

1 So far it is the road behind us that has become flooded. Our yards mostly become bog-like. The rearrangement of water drainage that our neighbor implemented last year so far has held up.

1 Soggy lawn, sippy crawl space, needed sandbags one year

1 Standing water under the house, erosion of land.

Count Response

1 Stream bank eroding and widening. This is what I observed last year. I've only own the house for a year, I don't know the history of flooding. The house has evidence of water damaging the foundation, but I don't know if it was caused from a clogged downspout or broken pipe

1 The backyard becomes an extension of the creek, becoming a lake essentially. The water rises so far up the street, into the driveway - making it difficult to enter and exit.

1 The congregation's Boy Scout Troop has helped neighboring property owners to sandbag their homes.

1 The creek bank behind my house is slowly disappearing, making the yard smaller each year. My yard turns to mud when the water floods. My garage and crawl space filled with water,

1 The creek banks have been eroding for over 10 years - due to no work done on clearing blackberries or planting native species, adding rocks, etc

1 The creek behind my house, rises and floods part of my backyard.

1 The creek came over the banks in 2015 and flooded our garage, crawlspace and yard with several inches of water on two occasions. Numerous items in the garage were destroyed and I pumped 8000 gallons of water out of my crawlspace after the first incident. Otherwise no severe damage.

1 The creek can swell from 2 feet across to 30 feet in a matter of minutes. It has damaged my yard and the last couple of years since it is getting worse I've noticed the bank is eroding and getting closer to my house.

1 The fence the country put up along all the houses is falling down. We lost our five ft easement and now our property

1 The flooding has ruined my ability to access the park through our property. It has got worse every year. Our field is now a swamp the majority of the time. As a child, we always had horses and cows next door. But they could not live here anymore due to excessive flooding.

1 The last few years the water only comes into the yard but not my house.

1 The structure has never been affected but our yard has flooded with several inches of standing water from the stream behind us.

Count Response

1 The yard is saturated last year there was 3 inches or more of water that came all the way up to the Flag pole 1 foot away from getting to the house, we had sandbags already around the property.

1 There is a rock drainage area behind our garages about 100 yards long. This is at the turn of Corby Dr. Plants have been allowed to build up and more water is hitting our community garages. We had to add an expensive french drain but the catch basin is pretty small.

1 Underground river flows through the back of it. I can see holes in my backyard that were never there. Waiting for my trees to just be sucked into the "river."

1 Very wet and soggy

1 Walk-out basement flooded (first time Jan. 2017). One inch of water but destroyed carpet and drywall. Decided to sink a sump pump during the repair - hope it helps.

1 Was evacuated once and last year had to put sandbags down and the water came about 5 " away from coming inside my place.

1 Water flooded back yard and garage. We had to purchase flood insurance for the 1st time in 10 years.

1 We are in a Hollow so drainage issues. People/property uphill -> water comes down through our property. ^participation = more flooding

1 We finally had to have the crawl space graded and had a sump pump installed. The water was so high one year, it flooded our heating ducts under the flooring (which left us without heat for 4 months until the crawl space was dry enough to have them and the insulation replaced) and twice water has come up out of the street drains in the cul-de-sac! On those occasions, the driveway and garage flooded

1 We get rats in the basement from the standing water. No other damage.

1 We have Mill Creek at the back of our property. It has eroded about 3' of the bank into our yard. It is unstable. I'm not sure if this is considered 'flooding' as it does now come up on our property, instead it is destabilizing the creek area through erosion and the bank is cracking off. Both of our neighbors have lost part of their yard, fencing, trees falling into the creek, etc. People have also dumped stuff into the waterway that increases problems and harms the water quality and habitat. Our property lines show the creek as being completely on our properties, not owned by the county, and this is troubling. This is a waterway.

Count Response

1 We have had to put In French drains and sump pumps due to standing water issues.

1 We have had to sandbag the back of our house every year for the last 10 years at least. The flooding and lack of drainage compromised the retaining wall, which we had to spend \$6,000 to fix.

1 We have only lived here for 2 years, and thus far we have been unaffected.

1 While our property has not flooded, the streets leading into ours have increased flooding, blocking one way in and out. The intersections around 126th, Camelia and Buyer seem particularly affected, and much worse in the past couple of years. Also parts of Butner between 126th and Murray seem to be flooding more often. With more new construction taking place, maintaining safe routes in and out of the neighborhood is a concern.

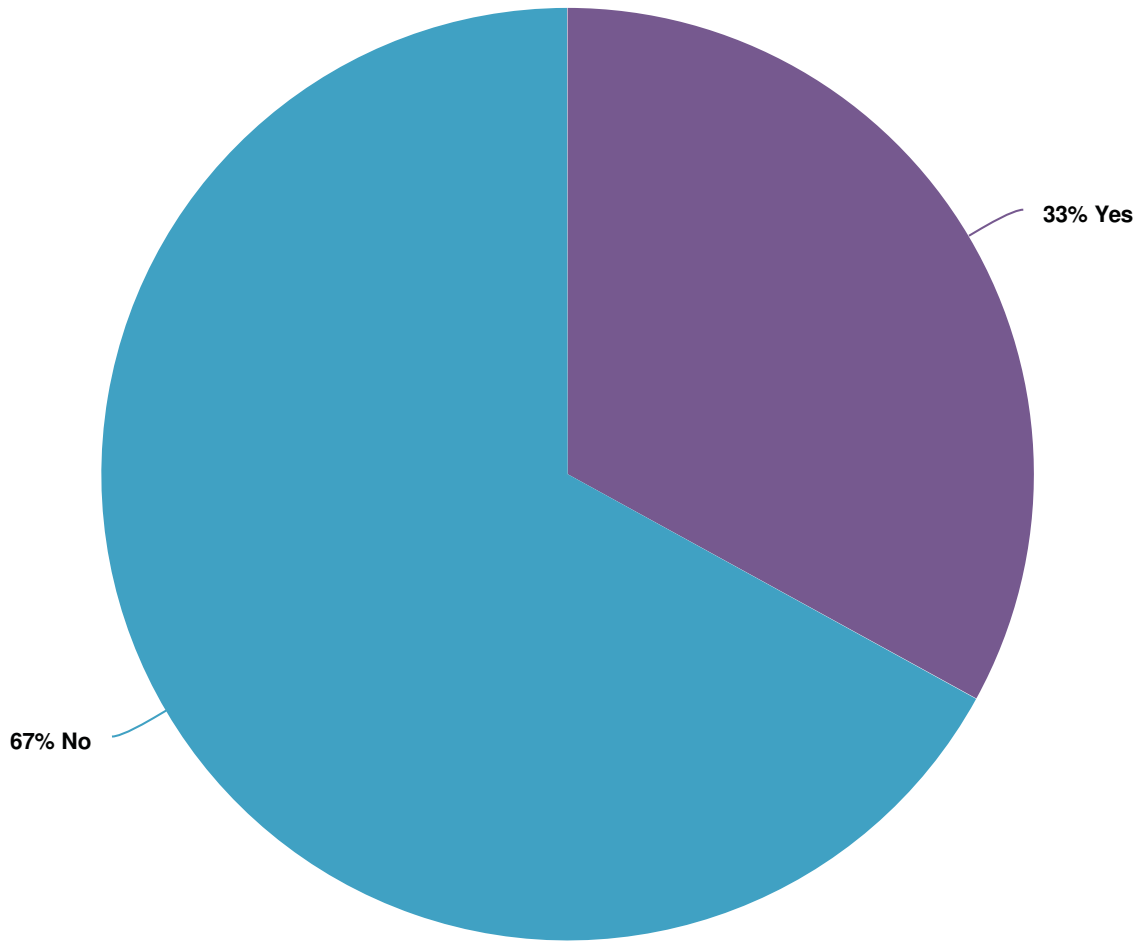
1 had to put in french drain in front yard to redirect water from driveway through to front yard. installed sump pump in crawl space

1 it does not affect our property really, as it is just the lower portion of our backyard; but we are forced to play flood insurance by our mortgage lender

1 na

1 water damage in the crawl space, bad settlement in the yard that has created a lot of unevenness and ditches that people have tripped and fallen in.

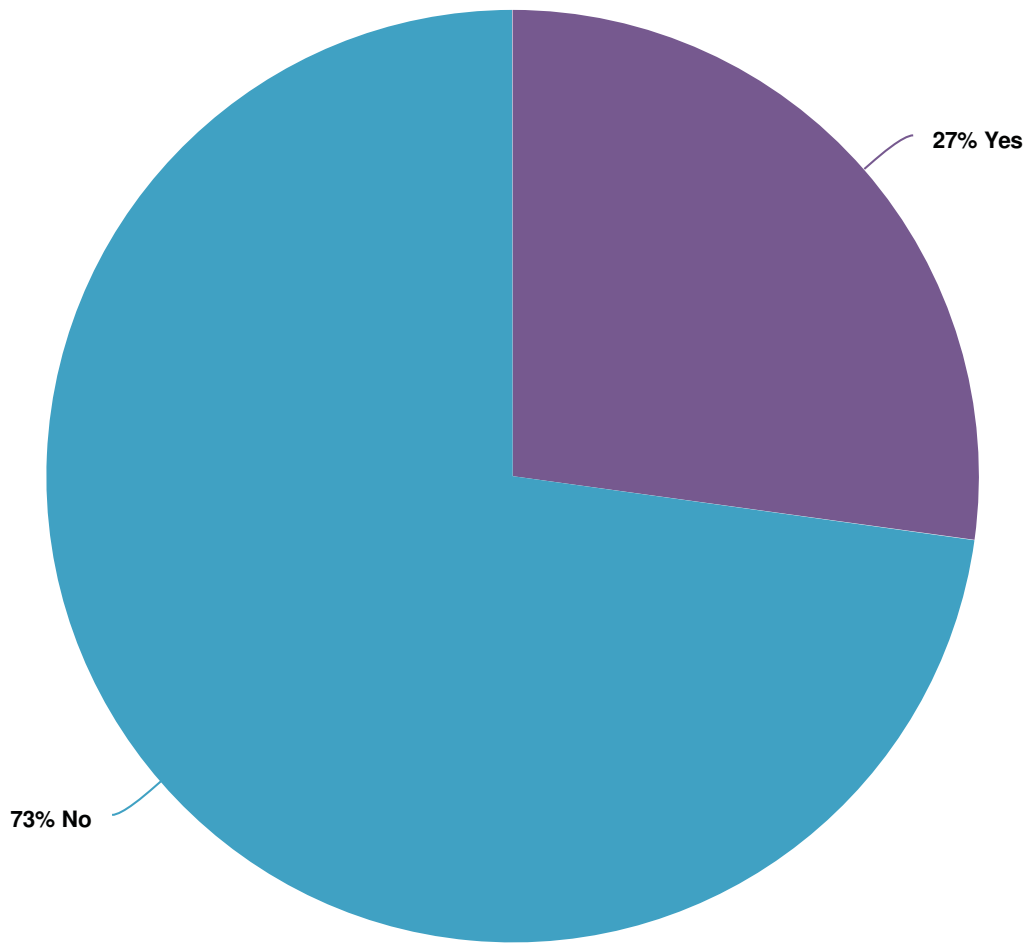
5. Do you have flood insurance?





Value	Percent	Responses
Yes	33.0%	38
No	67.0%	77

Totals: 115

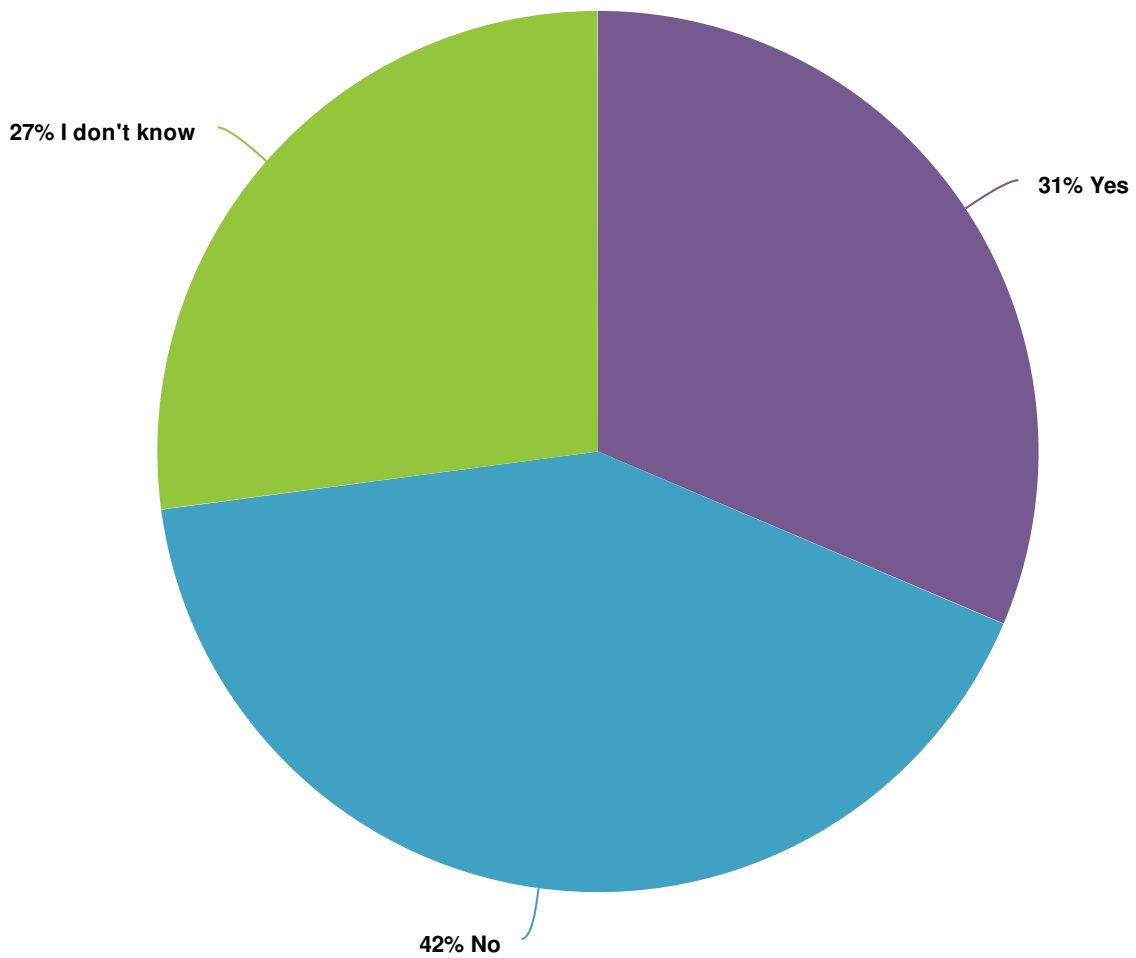
6. Has your property been damaged by flooding in the last 10 years?



Value		Percent	Responses
Yes		27.2%	31
No		72.8%	83

Totals: 114

7. Is your property in a designated floodplain?



Value	Percent	Responses
Yes	31.4%	37
No	41.5%	49
I don't know	27.1%	32

Totals: 118

8. Do you have ideas about how to manage flooding along Cedar Mill Creek and North Johnson Creek?

Count	Response
2	No
1	*Remove blackberries *Plant native plants *Add rock
1	1) When North Johnson Creek was originally channelized, or during maintenance over the years, the spoil pile was placed on the WET LAND side of the creek. Now the elevation of the creek bank is HIGHER on the WET LAND side than the RESIDENCE side, so all flood flows are pushed TOWARD the HOUSES. Create some ditch-outs so the high water flows go into the wetland (Peppertree Park/St. Andrews) where it is supposed to be, and not into our yards and street. 2) Change ordinances so that developments such as Killpack cannot get around current regulations and actually build on land that has flooded for years. This creates additional risk to our properties because now mitigation measures cannot increase flood "risk" to these downstream properties "even 0.001%". This is bad land management planning.
1	1. Remove the beavers, beaver dams and other debris from the creek. 2. Use the Common Wealth Park Lake as a dam, lowering the water level of the lake prior to accomodate heavy rain or snow melting. This way the lake can act as a holding tank absorbing possible flood water. 3. Make sure no new construction is allowed in floodplain areas, including Nike and other businesses. 4. Proceed with the plan to increase the size and capacity of the coverts under Walker Rd. and Murry Blvd.
1	1. The county needs to stop allowing the development and building within 50 feet of the creek. 2. Educate the public and property owners about illegal dumping and yard debris in the creek. I have complained about illegal dumping of raw sewage into the creek from my neighbor and property owners developing next to the creek (without permits) that increase swelling for years and the county does nothing about it. 3. Encourage property owners to plant trees and native vegetation around the creek to help with erosion.
1	Be more strict with developers up the hill. Stop saying "Law does not require proper flood abatement." Make them figure it out. Lawsuits will cost lots more than figuring out how to fix the problem.
1	Be more thoughtful in land development. We have 12 acres to the north of us that is undeveloped. I believe development should be limited in this space to help with flooding issues.

Count Response

- | Count | Response |
|-------|--|
| 1 | Better management of storm drains. Making sure creek is cleared of debris annually. |
| 1 | Buy properties that flood regularly, take out houses, driveways, & all impermeable surfaces, and manage them as floodplains and open space. Prohibit any more building or paving in floodplains or other flood-prone areas. Encourage and educate people throughout the watersheds to manage their own properties for rainwater absorption through maintaining native vegetation that can tolerate the longer dry season we're experiencing now. Encourage new construction to have compact footprints, narrow driveways, and native plantings without the paved patios, walls, etc. Encourage and educate people to capture and store some rainwater for emergency use as well as for dry-season irrigation. Allow native beavers to build their dams, which hold back storm-water. |
| 1 | Clean all the brush and sediment that has built up over the years so the water level is back to the elevations it was When the creeks were put in ditches. Control the beavers that keep backing up the water causing flooding and sediment to build and raise the level of the creek beds. |
| 1 | Clean out ditches and remove brush. Control beaver dams in creek. |
| 1 | Clear the creeks of debris often!! |
| 1 | Clear vegetation along banks of creek and remove excess vegetation from flood plains (I.e park behind 126th Ave). Enlarge culvert under Butner road. Dredge commonwealth lake to hold more water. No new building on or near dedicated flood plains |
| 1 | Clearing out the culverts multiple times throughout the year to help prevent backing up so much. Trimming back foliage that drops into the creeks. |
| 1 | Create natural swales to absorb water. Plant riparian areas to absorb water. Looks for ways to reduce hard surfaces that shed water. Discourage building in active floodplains and restore their original function. |
| 1 | Creek needs to be maintained and cleared out. Trees, bushes, garbage obstructing flow |
| 1 | Detention/retention facilities in the upper watershed. We are near Mitchel Park, which appears to have the potential for such a facility. |
| 1 | Dig Common Wealth lake deeper and longer remove the soccer field, to replace the wet lands Killpack Lane filled in when they built on designated wetlands. |

Count Response

1 Ensure all properties in the watershed have pervious surfaces to the maximum extent possible. Ensure the creeks have their floodplains available for flooding. If buildings are in the direct floodplain, start encouraging removal. Prop owners could sell to a conservancy, as one idea to incentivize sales.

1 First of all, I think establishing this group is a great idea and really opens up communication about the creeks and flooding. Thank you. It would be great to have a unified effort among neighbors and community agencies to keep up with stream bank erosion prevention, removing invasive species, planting strong native plants along the banks and removing garbage and debris from the creek. Reexamine the effectiveness of the runoff culvert on our property, and any other culverts and drainage along the creek.

1 Have the new developments properly mitigated their water runoff?

1 How about slowing the development?! It has changed the underground water flow.

1 I do not.

1 I first want to say thank you for the collaborative effort that has begun to address our flooding issues. Ideas: 1. Enlarge the culvert under Butner at 126th Ave. 2. Look into diverting some of the water into Pepper-tree Park north of Saint Andrews Lutheran Church. This would entail changing the lay of the land, so that flood waters could drain to the East of Johnson Creek as it parallels 126th Ave. rather than drain to the West into the back yards of houses. 3. Look at using land above Hwy 26 as a flood water holding area. 4. I am concerned that more time is needed for resident input, especially during this busy holiday season. October would have been a more advantageous time to ask for input. 5. I worry that it will be difficult to get a true picture of resident's concerns. One of my neighbors had thrown out her door hanger (inviting flood concern input) in disgust because she said she had already shared her opinions over many long years and nothing had been done and

1 I have a question, not so much an answer. At the intersection of NW119th and Cornell Rd., a bioswale of sorts receives runoff from the neighborhood above. Does a similar bioswale receive runoff from the Timberland development? I have noticed runoff from some culverts from this neighborhood that seem to run downhill over rock, directly into Cedar Creek. Other runoff passes into street drainage. Is it possible to build a bioswale similar to the one mentioned above in this neighborhood, to slow and filter runoff?

1 I think the idea of a larger pipe at the bridge over Butner and 126th is a good idea. Especially for the people who live there. That is kind of the root of the flooding on the lower area. I also think something should be done with the water run off down the hill to the flat land where I live.

Count Response

1 I wish I did.

1 I'm concerned that the additional construction in the area very close to the creeks has reduced the "natural" land (with its ability to absorb or slow surface water) and increased the amount of hard impervious surfaces, causing water to flow into the creeks faster during heavy downpours and hence exacerbate flooding. I feel like there should be large set backs from all the creeks and the land should be kept vegetated in such a way as to slow runoff into the creeks. An additional benefit might be that they could serve as "connector" parks complete with trails to allow pedestrians to walk between neighborhoods.

1 I'm not an expert so I don't know all the possibilities, but one measure would be to increase the size of the culvert/s downstream from us.

1 I'm sorry, I don't. For my home I put sandbags at the downstairs doors (there are three of them). In the past three or four years I haven't needed them but it gives me peace of mind.

1 I've seen more use of swales in Portland for parking lots and along neighborhood streets. I don't see that very much in this area. Can any of the areas that are not developed be turned into a larger swale to hold overflow?

1 If a small bridge would be put it on Johnson and the road raised some, that would off a pocket for the water to go. Return more trees to the area.

1 If you got rid of the beavers and used an excavator to clean out the ditch you would solve the problem

1 Immediate needs are to clear log jams, pull out large logs and branches to prevent jams. Keep culverts clear. Remove falling or dead standing trees before they fall into the water and or on someones home! Many trees that once stood on solid ground are now in the water, or nearly in the water, so they are at risk of falling. These trees are far too expensive for the average home owner to take care of, so there they stand as a major hazard. Longer term ideas include managing water run off in the higher elevation where all of the new construction is taking place.

1 Increased planning of nature plants. Working on creeks - CWS projects to health of streams

1 It seems that the Commonwealth Lake could be better used or managed as an overflow reservoir. The Lake is kept at a pretty full level for most of the winter and when heavy rain comes there is no more capacity to absorb the water.

Count Response

1 It seems to me that the increasing infill between my property and Commonwealth Lake is reducing the places that water can naturally go. And it has to go somewhere. I also wonder why, with all the work the county plans to do to replace the culvert at Butner (by the Lutheran Church) they're not increasing the diameter, to allow more runoff to be channelled properly. What sense does that make?

1 Kill the ivy that is rotting the trees. You watershed would send letters or door hangers warning about fines for dumping. Clear the log jams. Cut down the rotting trees. I have a copy of the old letters.

1 Larger culverts and a better way to keep the drain clear of debris

1 Larger culverts where the creek goes under the road would be a good start. clearing the overgrowth, seeding in native plants and maintaining the creek banks would also be helpful or provide tax incentives to homeowners for maintaining the banks along their properties.

1 Make developers pay for flood control and water diversion.

1 Make sure drains and leaves are maintained. The only reason our street flooded was because of leaves clogging drains and not given enough care and attention to flow of water. Church filled in back up water pump to our area and our water has no where to go

1 Manage the creek better. We have lived here 4 years and I have never seen anyone from the city maintaining the creek. A neighbor up the street said there was a tree down in the creek that was causing the water to get higher than normal and he called the city and they said there wasn't anything they would do.

1 My house is now out of the floodplain, but my street floods (within houses from me). Nike ripped out all the trees and filled wetlands with cement and that is when the serious flooding started and I have lived here for almost 40 years. They just took out more trees and filled in wetlands on Hocken. Off of Butner, the townhouses were built on land that usually was marshland. Behind my house on the other side of the creek, was marshland and there have been 2 huge 2 story houses built on Far Vista. The building needs to stop, or this will get very serious. Whatever the solution, Nike needs to pay for it or City of Beaverton. City of Beaverton allowed this to happen. What part of wetlands does no one understand.

1 No idea.

1 No not really

Count Response

1 No.

1 No.

1 Not at this time

1 Not at this time.

1 Not sure how to manage it. Our neighborhood has very shallow ground water and most neighbors have sump pumps that go constantly throughout the rainy season.

1 Our neighbors living near the intersection of Butner and 126th said they had a study done that recommended increasing the size if the culvert there. Perhaps not allowing more construction to occur in traditional floodplains, pushing the water flood to new areas.

1 Our property seems to be at a lower elevation than the wetland (Peppertree Park/St. Andrews Church property) across the creek from us. I would like to dredge flood lines into the wetland so that the water flows there when precipitation is high instead of into our yard and to our house. The land in the wetland area is also overgrown with blackberry bushes that have now grown into the creek which I'm afraid will cause higher creek waters.

1 Plant management

1 Prevent further home development above Cornell! The water runs down and has hardly any place to go. It overloads the creek and the roads and is dangerous for a very busy street like Cornell. Unfortunately, there is about 6 acres of forest that is likely to be developed just above Cornell and off of 119th street. From what I have heard, the private owner would keep the already-paid-for-land, except he cannot afford the exorbitant taxes on the property that he inherited from his father. Naturally, it is developers who want to buy it. It really should be preserved, or the taxes made more manageable since his land is actually helping prevent further flooding below stream, on Cornell and below.

1 Reduce runoff and flash flooding from impervious structures Allow more rainwater storage in wetlands

1 Require Bioswales and a certain percentage pervious paving in new developments to slow the accumulation of runoff. Encourage green roofing for the same reason, in new and existing properties. Encourage or require rock drains (French drains) so the runoff goes down, not down-stream.

Count Response

1 Shore up banks so people's houses along the banks don't flood. Change ordinances to add trees and other barriers to help prevent flooding. Adding retaining walls?

1 Some kind of ordinance to control cutting down large trees

1 Stop building so much.

1 Stop letting the millionaire builders exploit the land and build high-density housing.

1 Stream banks are being damaged by easier access in Jordan Park. The streams should be slowed down in Jordan Park and banks restored to encourage flooding in Jordan park and slow downstream flow of water.

1 Sue developers ☹☹☹

1 Survey and remove abandoned beaver dams, improve drainage in older neighborhoods.

1 The creek (banks) running through the wetland has not been maintained. We have filberts and blackberries and various trees changing the flow of water. Beavers have built large dams, this is also changing the water flow..

1 The creek behind my house needs to be reinforced and the creek bank raised to a higher level to increase the capacity to withstand the drainage. Additionally, more drainage options should be considered and added/built to alleviate the pressure on the current systems.

1 The creek seems to flood during sudden events of high rainfall. If there were more places to collect that water and have it slowly reach the creek, more wetlands and bioswales, instead of having all the houses run their rain gutters into the creek it might help. Some neighbors mentioned a lot of debris in the creek downstream that may cause a dam during high water conditions also. Perhaps regular maintenance of the creek bed may help as well.

1 The creeks need to be deepened and widened and also cleaned out regularly. There is so much debris in the creeks that causes backups. Also, enlarge the area where the water collects, so there is a place for the water to flow to without getting so backed up.

1 Use swales and other catchments to slow and filter all street water upstream and allow it to percolate into the ground; do not pipe directly to streams. Allow substantial stream buffers when doing development. Consider using permeable pavement in new development. Designate as much public land as possible along waterways and manage for stream health. Increase wetlands and manage for wetland health.

Count Response

1 Water runs downhill. Taking a closer look at development activities from past, present and future. To better understand the impact they have on urban flooding. In many cases a post mortem is essential. Less impervious surfaces per sq. foot. More wetlands, swails, eco driveways, housing density changes in critical areas. Hold developers more accountable for adherence to regulations. Penalize severely for inadequate implementation. Currently if there flooding resulting from seasonal rains on properties adjacent to future developments. The developers don't have to consider how to mitigate the issue, hence exacerbating the problem. I think of it as a relay race the baton (flooding) is passed off to the home owner when the developer walks away.

1 We may build a retaining wall at the back of our property but that doesn't help anyone else down stream unless we all do it. We could deepen a few of the streams up and down stream or Commonwealth lake/pond. That might be crazy, I am not an expert :)

1 We've talked about building up our bank to prevent this from happening again, but it's expensive and would just cause our neighbors to flood. French drains exiting to the street would potentially cause other problems.

1 YES,

1 Yes a few.

1 Yes. Maintain the trees and debris that clogs up the creek every year, which causes it to back up and erode the banks.

1 culvert replacement on butner road would be the biggest improvement. as the culvert backs up the water.

1 in October of 1981, the Water District came into the creek, cleared it out and widened it. They also put in cement retaining walls up to and including our property and berm walls west. That was in 1981. Nothing has been done since to ensure the creek path stays clean and clear. When the retaining wall was installed, the Water District also installed an 8 - 10' cyclone fence on top of the 3' cement retaining wall (that goes at least 2 - 3 feet into the ground). Again, nothing has been done to maintain any of the work that was done. The fence posts have rusted out and the fence has fallen towards the creek. Before the fence was installed, we were able to access the creek bank and keep it clear. With no access, we haven't been able to do that - and the blackberries and other vegetation have become overgrown - likely also clogging the creek drainage.

1 require permit to remove trees like in Portland, San Jose- see neighbors cutting trees all the time and that can cause problems for people downhill Offer more free plants install french drains on the side of road and curbside rain gardens

Count Response

1 the creek often overflows into the yards of those living just north of Butner Road and on rare occasion all the way onto Butner Road. Perhaps dredging the creeks would help? Adding more drains in the duckpond at commonwealth park?

9. Is there anything else you would like to share?

Count	Response
2	No
1	No---but when I was required to have flood insurance, it was almost 3,000 a year which is not good when you live on retirement income. It was 991 a year through my insurance agent, then FEMA took over and jacked up the prices. FEMA still harasses me about flood insurance.
1	We have a tributary running through our property that is running with increasing speed and volume.
1	Developments are fine in the area. We all live in one that was built at one point in time. But not making developers figure out these flood issues BEFORE building is a crime--or should be. I will upload photos at a future date.
1	Happy Thanksgiving! Gobble, gobble.
1	Have an emergency flood line. I called clean water services and police and no real help was given or prevented. Just guys sitting in clean water trucks doing nothing before my street flooded 3 feet. After the news/press got involved they pump out our clogged drains and everything was fine again. It could have been prevented! I was also scrambling to find out about sand bags during day before nightly news came on with info.
1	I am grateful this group is looking into helping us. We love our home and neighborhood, but the flooding is so stressful along with the rising flood insurance costs that I have extreme anxiety about the future. We don't want to move, but even if we did I don't know that anyone would buy our home considering the risk. You are bringing me hope that we will have a resolution someday. Thank you!
1	I contacted Clean Water Services, Washington County, and the Watershed Council several years ago about replacing my retaining wall with a more appropriate bank (pulled back a bit, better vegetation, flow velocity reduction, etc.) and was told the Section 404 permits and other regulations would cost tens of thousands of dollars - just for the permits! It is counter-productive to discourage appropriate corrections to a currently bad situation. We need comprehensive corrections to the flood situation and to improve the riparian habitats along the creeks.

Count Response

1 I have a lot of photographs that I took in December 2015 - the last and worst flooding of the creek since I've lived here. I would be happy to email them to you - your server says they are too large to upload. You will see just how bad it can be. Question 7 I cannot truly answer - the damage has not been direct - "just" flooding. I don't know what damage that may have caused. As to any other comments - please see 9 above.

1 I have pictures and videos already sent to Eric Jensen and Shannon Hi.

1 I hope this problem will be resolved soon.

1 I own this residence and am willing to participate, contribute or be active in any way which will promote and preserve the property value in this area.

1 I voice my concern that the east side of the culvert at the end of Corby Dr. was failing. A crew came out and removed 3-4 large trees and re-enforced the bank. This has created a better flow. Glenna Volk

1 I worry the flood water that entered my house will cause mold, affecting the air quality for my family and infant daughter. We will upload photos of our house during flooding in 2015.

1 If a member of this group would like to look the part of the creek that borders our property, they are welcome to, but we would like advanced notice via email. There is a beaver somewhere near our property because we have several small trees that have been cut down by a beaver. I haven't located a dam yet, but I am worried about the potential for flooding that a dam would cause. Has anyone else reported seeing beavers at work? Is there a way to humanely relocate a beaver? =)

1 Just a big thank you for working on this.

1 Just that it is awful to see what people put into this creek. There is wildlife that depends on it, as well as the water continuing into other water sources. It just seems like the county should be taking care of the waterways.

1 No one thing is going to fix this, but this is clearly something that needs to be addressed. Thank you for starting this conversation.

1 Nothing in Washington Co. preserving trees unlike two other metrology counties

1 Ordinances protecting existing homes/businesses and preserving wetlands.

Count Response

1 Our flooding is due to excessive building. It's effected all properties in the cedar mill lower elevations. It's very stressful wondering when the water will rise and damage your home and property. Washington county and clean water needs to take steps to prevent this from happening. It's not the home owners issue. And it's costing all of us more money.

1 Please continue to communicate with the residents. I suspect that it is not easy to get the needed input, some people just don't respond until there is a catastrophe. You also may feel the accumulated frustration of people who do attend meetings. I am appreciative of the work being done and the number of points of view being brought to this project. Although I wish that I had never bought a house in this area, I do feel somewhat safer knowing that a solution (Meaning to reduce frequency and severity of flooding) is being worked on. Unfortunately I do not have photos. I will ask my neighbors.

1 Please get this issue under control.

1 Please help us. We just bought this house, we love it and this community. We want to live in it a long long time and I fear climate change may force us out at some point

1 Seems like a largely human-created problem. Don't further destroy/diminish our existing waterways and riparian areas.

1 Silent Creek runs through our backyard. We have seen increased flows during rain events over the years. There is potential for mitigation retention on a smaller scale on our property as well.

1 Some form of mitigation for rapidly increasing flood insurance rates is needed to keep our neighborhood affordable and attracting diverse families. Having lived in my house almost five years, the cost of flood insurance is at a point that I will no longer be able to afford to stay in my treasured neighborhood.

1 Thank you for doing this!

1 Thank you for taking steps to address the flooding problems!

1 The flooding in the Commonwealth lake park and surrounding area has increased in recent years (I have photos of it). With changes in climate and the recent building adjacent to the lake concerns are that the flooding will only increase and impact more of those that already get flooded and perhaps other homes, including mine. At the end of our street at Devonshire I remember helping a neighbor extract water from her split level home due to flooding. And watching cars drive by causing water to flow into her garage. PLEASE find a way to help with the flooding!!!

Count Response

1 The mortgage company force places insurance because they don't communicate with regular insurance every year about coverage amounts!!!

1 The water level gets higher every year. I have not seen significant ditch/creek cleaning or maintenance in this drainage since 1996. The beaver population is also a large problem that needs to be controlled.

1 The water moves fast, and it's a safety issue if a person were to fall in as there are so many logs/branches/ivy/blackberry bushes along the way to get tangled in. It's not just the flooding either. Those of us that actually live on the creek fight with the dead trees, garbage, log jams, loss of property due to the bank erosion. One of our sheds is getting pretty close to the edge.

1 The whole watershed should be treated as an entity, a valuable segment of our community. The character of the streams and the quality of the waters should be improved through long-term care of the whole watershed to provide not only high quality water and stream habitat but also high quality riparian and terrestrial habitat for native plants and animals. These environments are important to our human communities in many ways including aesthetic, psychological, recreational, educational and healthful.

1 WE NEED TO STOP ALLOWING DEVELOPMENT!!!! Dale avenue off Cornell backs right up to the cedar mill creek. The county keeps allowing development of huge apartment complexes that would back up to the creek. More people means more run off into the creek which means more flooding and more erosion. If the people of Cedar Mill actually care about the quality of the creek they will help us tell the county to stop allowing development. This has been our fight for years.

1 We had one issue with flooding during the first seven years at our house, a large storm flooded the street with what I would guess was around 4" of water over night, that cleared up by morning. With the new condos that were put in on Butner and Murray around three years ago, our street floods several times a year, with often over a foot of water (the photos shown on this site are all right by my house), lasting days. Not sure who approved said construction, but, I'm not impressed.

1 We have been told that Terra Linda Neighborhood used to be a wetlands area. We struggle almost every wet year to keep out the moisture from our home. Old timers say that there used to be pipes that drained the areas, but now the pipes are old and probably broken so that the water is not directed like it used to be.

1 We have only owned our house for two years, so we have no information about past flooding. We would obviously like to be out of the floodplain. A recent elevation survey indicated that we are five feet below the required elevation to be out of the floodplain.

Count Response

- 1 What are the roles/responsibilities of the developers who built housing/commerce sites at Timberland area north of Hwy 26? The flooding seems largely due to this area being developed.
- 1 When I have seen high water events along this section of creek with a riparian zone, I have been amazed at how little damage the flow creates.
- 1 While I haven't always lived at this address, next door neighbors who have lived on this street for 35+ years mentioned ever since the apartments on the corner of Walker & Murray were built, along with nearby storm basins, larger culverts under Walker and some of Nike's storm drainage improvements that it's been decades since SW Far Vista Dr. has faced any real flooding.
- 1 Would love more info on residential water management and sandbag programs.
- 1 from studys done that i have read that says replacing the culvert with a 10ft box culvert lowers the 100y flood stage by 3ft. which will greatly reduce flood risks to the house. I am wanting to invest in my property with patio pavers and a hot tub in the backyard. but risks of the creek flooding more often than what it has in the past has me concerned.