

Public, Educational and Government
Access Channels and Institutional
Network
2021-2022 Annual Report





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EXECUTIVE SUMMARY

Clackamas County provides high-quality cable programming to serve the public and enrich the lives of county residents by communicating information over public, educational and government (PEG) access channels.

The Oregon Office of Economic Analysis lists Clackamas County as a stable population area. That solid population—coupled with broadband issues, telephony, service for residents caught in the digital divide, institutional networks (I-Nets), and demand for telecommuting—reinforces the important role of PEG television programming.

In fiscal year 2021-2022, Clackamas County awarded a total of \$278,400 to five PEG access channels in reimbursable expenditures for capital expenditures. Programming and playback schedules for each of the PEG access channels can be obtained by contacting the Clackamas County Public and Government Affairs Department.

The five PEG access channels are:

- Canby Television Channel 5 (public access channel)
- Clackamas Community College (educational access channel)
- Clackamas County (government access channel)
- North Clackamas School District (educational access channel)
- Willamette Falls Studios (public access channel)

Of the full award, \$115,000 remained unspent and will be carried over into Clackamas County Public and Government Affairs Department's FY 22-23 budgeted PEG revenue, as directed by regulations from the Federal Communications Commission.

The county also operates an institutional network (I-Net) system that provides broadband services within the county.

PEG ACCESS CHANNELS

CANBY TELEVISION CHANNEL 5

Canby Television Channel 5 (CTV5) is a 501(c)(3) non-profit organization that operates and maintains a PEG access channel. The channel provides broadcasting and public access to production resources within the City of Canby and in unincorporated Clackamas County considered to be in the Canby district. As of July 1, 2022, Willamette Falls Studios took over the operations, facilities, and equipment at CTV5. As a result, CTV5 will not be listed in future reports.

CLACKAMAS COMMUNITY COLLEGE

The Clackamas Community Art Department with oversight by the Clackamas Community College TV Steering Committee manages operation of the college television channel (CCCTV). CCCTV broadcasts programming that includes instructional videos, college events, activities, news, live events, and creative work produced by students in the college's digital media communications (DMC) program, including short films and motion capture animations. The channel operation is focused on offering access to its instructional content and serves as a public information arm of the college.



CLACKAMAS COUNTY

The Clackamas County Government Channel (CCGC), also known as #ClackCo TV, serves the public interest by promoting the communities of Clackamas County and making government more accessible and understandable to its residents. Production includes coverage of the Clackamas County Board of County Commissioners meetings, videos on government services and how to access them, documentaries, and programs displaying a variety of community events.

NORTH CLACKAMAS SCHOOL DISTRICT

The Sabin-Schellenberg Center works with the North Clackamas School District to educate K-12 students. The curriculum is affiliated with Oregon Associated Press Broadcasters and draws students from Clackamas, Milwaukie and Rex Putnam high schools. The students are members of the Varsity TV organization, and are assisted and mentored by local media professionals.

WILLAMETTE FALLS STUDIOS

Willamette Falls Studios (WFS)—a 501(c)(3) non-profit organization formerly known as Willamette Falls Media Center—operates and maintains a PEG access channel and production resources on behalf of the communities it serves. The WFS facility includes video production studios, editing suites, portable equipment for certified producer use, video playback capacity, training space and business offices. The organization facilitates the production of locally based content by community members, non-profit organizations, churches, government agencies, and educational entities. It also coordinates the cablecast of programming on several designated community access channels.

INSTITUTIONAL NETWORK (I-NET)

CLACKAMAS BROADBAND EXCHANGE (CBX)

Clackamas County operates the county's institutional network (I-Net) system, monitored by the Department of Technology Services. Created in 2010 through federal funding and county contributions, the network is designed to link all county offices and most emergency responders with the highest level of communication systems. It brings affordable broadband service to more than 409 community anchor sights along a 363-mile fiber optic network, and connects schools, colleges, libraries, medical facilities, police and fire stations, and other public agencies.



Public, Educational and Government Access Channels and Institutional Network 2021-2022 Annual Report

The annual report provides a summary of each PEG access channel organized by type (public, educational, government) and includes an overview of their goals, expenditures, accomplishments, and future plans.

The report also includes a summary of the county's institutional network (I-Net) and the ongoing efforts to expand broadband services to communities within the county.

PUBLIC ACCESS CHANNELS

CANBY TELEVISION CHANNEL 5 (CTV5)

CTV5 has provided the City of Canby with public access television and web video resources for more than 40 years. Funded through television franchise fees and local contracts with the City of Canby and other organizations, CTV5 has provided local citizens with access to public meetings, local sports events, lifestyle content, and more for many years. The channel's mission to provide robust programming has become a challenge due to the changing nature of television and streaming. Legislative and funding changes, closing of local cable broadcasters, and conditions under which CTV5 operates changed significantly. As such, it became clear that working within a larger community framework was necessary.

CTV5 and Willamette Falls Studios merged to create efficiencies and combine resources to better provide access for the local community. CTV5 closed the studio space located in downtown Canby. As a result, this channel will not be included in future annual reports.

Willamette Falls Studios continues to provide community services like broadcasting city meetings, covering local sports and school events and providing local citizens access to technology to create original programming.

LOCATION

CTV5 studio was located at 351 NW 2nd Ave in downtown Canby.

PROGRAMMING

CTV5 programming consists of public meetings for the City of Canby including council work sessions, regular meetings, budget hearings, and planning commission meetings. Community announcements displayed on our channel reader board between regular programming.

STAFFING

CTV5 consisted of a part-time executive director.



ACCOMPLISHMENTS

Merger with Willamette Falls Studios to better serve the community.

EQUIPMENT ACQUISITION

EQUIPMENT	TOTAL
1 Blackmagic design SmartView Duo LCD Monitors	\$495.00
1 A-Neutronics 20 outlet rack mount power strip	\$59.00
1 SKB 4U Roto Shallow Rack Case with Steel Rails	\$149.00
1 Dell Optiplex 3080 Micro Desktop Computer	\$619.95
5 Blackmagic Design Micro Converter BiDirectional SDI/HDMI 3G	\$375.00
10 Blackmagic design Micro Converter HDMI to SDI 3G	\$590.00
1 Blackmagic design Mini Converter SDI distribution	\$159.00
3 Lentequip small SDI cable reel	\$1,215.00
1 Auray HPDS-B Desktop Headphone Stand	\$19.99
5 Auray Headphones Holder with padded cradle and adjustable angle	\$99.95
1 Matrox Monarch HDX	\$1,295.00
1 Hollyland Solidcom M1 Full Duplex Wireless Intercom Solution	\$6,999.00
1 NewNewtek 3 play 3P2 Sports Replay Production System with Tricaster Mini Adv	\$39,552.00
Total Spent	\$51,628.88

WILLAMETTE FALLS STUDIOS (WFS)

Clackamas County Cable Communications contracts with Willamette Falls Studios (WFS) to support public access opportunities within Clackamas County. Through a contract service agreement with WFS, Clackamas County Cable Communications provided \$40,000 from general funds toward operations, \$99,486.44 in PEG funding towards facilities and equipment, and facilitated \$18,237.58 in PEG funding from Happy Valley. As contracted, the media center and its resources are accessible to all residents living in the unincorporated areas of the county. WFS also contracts with the cities of Oregon City, Wilsonville and Milwaukie, thereby making the facility services and equipment available to residents of those areas.

Willamette Falls Studios has four professional studio spaces, a fully functional kitchen studio, a podcast studio, a large green screen studio, and a small studio for community producers. Each studio is professionally equipped with 4k HD acquisition and has the ability to go live onto the community channel. It also has four post production editing suites, two PC suites and two Mac suites, in addition to multiple meeting spaces and a variety of field equipment available for checkout for off-site productions. This fiscal year—with the use of the county and Happy Valley PEG contributions—WFS designed and constructed a new community music recording studio. The new studio, located in the lower level of the facility, is being implemented in two phases. The first phase being the construction of the studio, including soundproofing, began in April 2022 and was completed in June. The second phase, scheduled to begin August 2022, includes the installment of the HVAC system, production equipment, studio lighting and set design.

During the 2021-22 fiscal year, 26 new resident producers attended one of the 27 production classes held at the studio. Local producers used editing suites for over 151 hours and over 1,040 hours of studio production time in the kitchen, podcast, and green screen studios. Producers also accessed cameras and field equipment for offsite productions for over 3,451 hours.



WFS began a new partnership with Clackamas Academy of Industrial Sciences (CAIS) as the production site for the school's new media communications program. The program launched at the start of the second trimester in January 2022 and continued through the end of the school year. During the second and third trimesters, WFS administered over 1000 hours of production training for the CAIS teacher and 57 students attending the classes. The program's future objective is to have the CAIS instructor conducting the class with WFS staff available in a supportive role.

The board of directors of Canby's public channel—Our Community Television System (CTV5) —reached out to WFS shortly into the fiscal year to discuss strategies to help them continue services in their community. In early 2022, CTV5's board reached the decision to close their studio. Working with the CTV5 board, WFS employed the CTV5 employee and contracted with CTV5 to provide in area studio services for the Canby community in exchange for capital PEG assets. WFS has also contracted with the City of Canby to provide government videography services.

More detailed information about the media center and services available to the community can be found on the website: www.wfmcstudios.org.

LOCATION

The Willamette Falls Studios is located at 1101 Jackson Street, Oregon City, OR 97045. Hours of operation are: Tuesday, 10:00 am – 9:00 pm; Wednesday, 10:00 am – 4:00 pm; Thursday and Friday, 10:00 am – 7:30 pm. The studio is also open on the fourth Saturday of each month, in addition to by request.

PROGRAMMING

During the 2021-22 fiscal year resident producers in the county used Willamette Falls Studios equipment and spaces to create 426 programs for cablecast, generating more than 844 playback hours of first run, local origin programming on WFS managed channels.

Oregon City School District submitted 13 programs totaling over 143 first run hours of local origin programming on WFS managed channels.

Community announcements submitted by the greater Clackamas County are cablecast in a community board format, in between produced programs. WFS staff updates the information regularly.

STAFFING

Willamette Falls Studios employs nine part-time staff, each of who works in a part-time capacity and managing multiple job functions. Staffing consists of an executive director, business manager/finance, engineer, IT & playback operator/meeting videographer, studio specialist/meeting videographer, an office assistant, a meeting videographer, a back-up videographer and an on-call videographer.

ACCOMPLISHMENTS

- Established a partnership with CAIS and their new media communications program.
- Designed and constructed a 1,600-square-foot music studio
- Launched a streaming channel to provide PEG content to unserved areas
- Provided public services for the City of Canby residents



FUTURE PLANS

- Seek ways to create a countywide education channel to support connectivity between the community and local schools.
- Develop a pilot program with county area libraries to provide satellite sites for community content creation.
- Increase learning opportunities by developing a Masterclass Series taught by industry professionals.

GOALS

- Partner with local school districts to support their digital needs
- Seek out new sustainable sources of income to support continued growth and expanded services
- Redevelop current marketing and outreach plan to support expanded services in underserved areas

EQUIPMENT ACQUISITION

EQUIPMENT	TOTAL
On Location	I
JBL 8" Powered Bluetooth Speakers, Mixer, Stands, Wireless Mics & Headphones	\$871.90
On-Location Total	\$871.90
Facilities	
Annual Lease FY21-22	\$11,940.00
Ancillary system to back up PEG channels and to provide PEG programming to unserved areas	\$22,134.00
Eyebolts (4); metal drill bit, Foam cord wrap for cable reels	\$27.82
Chrome cap nuts for cable reels (2)	\$8.30
Smart KVM Switch 8 port manual key press DVR switch VGA USB Remote Extension	\$79.40
Facilities Total	\$34,189.52
Studios	
Tools and Lights for Studios	\$164.36
Genaray SSL-RC2 2.4 GHz Wireless Remote for Digital SSL Series Lights	\$59.95
(2) SanDisk 128GB Extreme PRO UHS-I Card/SD Card; (1) Zoom H8 12-Track Portable Recorder for Studio;(1) CASEMATIX Travel Case for Zoom Recorder; including shipping	\$508.71
(10) 12v 5Ah Yuasa NPH5-12, NPH 5-12 .25 Terminal UPS Replacement Battery SPS Brand/ 2 & 8; Including shipping	\$749.30
XLR 3p Male to 1/4 TRS Mic cable(1); HDMI Male to DVI-D cable (2); Logitech Wired Mouse(1)	\$62.81
Cat5 feed thru modular plug; Cat 6 riser blue cable 500ft for patch panel in loft studio	\$112.91
Portable 2TB Storage	\$54.99
Studios Total	\$1,713.03
Music Studio	
Framing, Flooring, Ceiling Grid, & Electrical for Music studio, ADA Bathroom remodel	\$59,059.65
Asbestos testing for lower level music studio ceiling tile	\$99.00
Construction demo disposal for lower level music studio	\$47.00
Construction demo disposal for lower level music studio	\$35.00
Lower Level Studio Remodel; Design-Architect/Drafting; Construction Documents; Permit & Bidding	\$1,543.75



EQUIPMENT	TOTAL
Building review and permit	\$1,294.35
Lower level studio remodel-Additional permitting and construction administration	\$130.00
Audio junction box; cabling; plastic brushings for music studio audio ports	\$115.82
Music Studio Flooring & Install - MSI LX prescott :VP SPC core BARRELL laminate flooring - 20 mil (89 boxes) & Endcaps	\$15,291.59
Asbestos removal & Disposal of loose tiles as Prep for new music studio flooring installation	\$2,495.00
Silverback Screamer Bulk XLR Cable 300ft; Unidirectional Display port to HDMI Adapter Cable 15ft for music studio	\$92.11
1000ft Belden HD/SDI Rg6 Serial Digital Coaxial Cable	\$647.30
Asbestos testing for the Music Studio flooring installation	\$99.00
Music Studio Total	\$80,949.57
Total PEG Equipment Acquisition	
	\$117,724.02

EDUCATIONAL ACCESS CHANNELS

CLACKAMAS COMMUNITY COLLEGE (CCCTV)

The Clackamas Community Art Department with oversight by the Clackamas Community College TV Steering Committee manages the operation of the college television channel (CCCTV). CCCTV currently broadcasts programming that includes instructional videos, college events, activities, news, live events, and creative work produced by students in the college's digital media communications (DMC) program, including short films and motion capture animations. The channel operation is focused on offering access to its instructional content and serves as a public information arm of the college.

Clackamas Community College has campuses in Oregon City, North Clackamas and Wilsonville, plus extension sites in Canby and Molalla. The college offers associate degrees and certificates, college transfer degrees, career technical education, literacy/basic skills, community education, business training, distance learning and partnerships for four-year degree completion programs. The college district includes all of Clackamas County except Lake Oswego, Sandy, Damascus and Boring school districts.

Clackamas Community College channel is broadcast in the unincorporated areas of Clackamas County. CCC programming is received on channels 9, 27, 58, 60 or 98 based on the individual cable company channel lineup. An intergovernmental agreement between Clackamas County Public and Government Affairs Department and CCC provided funding for FY 21-22 as well as from the City of Milwaukie and the City of Happy Valley (in conjunction with Clackamas County). This funding is generated through PEG fees collected through cable providers in unincorporated Clackamas County.

LOCATION

The higher education channel operation is located on the CCC Campus, 19600 Molalla Avenue, Oregon City, Oregon. The main college campus is an ideal hub for this type of channel.



PROGRAMMING

Programming of the CCC channel is not regulated by any franchise requirements. Programming over the last year included original content created by students, virtual fieldtrips around environmental topics, STEM and art talks, focus on a variety of faculty, music performance, as well as departmental and college information.

STAFFING

CCCTV is staffed by a part-time classified programming manager who schedules and encodes programming, shoots and edits informational college productions, and troubleshoots the cablecast system. The programming manager is supervised by the director of college relations and marketing. Budget and programming oversight is provided through the CCCTV steering committee comprised of interdisciplinary faculty and college leadership. Additionally, the college supports operations through information technology personnel, the college public information officer (PIO) and marketing department staff time. Non-college freelance videographers are periodically contracted on an as-needed basis.

EDUCATION/ORIGINAL CONTENT CREATION

The purchase of industry-standard equipment through PEG funding allows the college to keep its curriculum current with the demands of our industry partners in film and media. The equipment purchases allow students to gain the skills necessary to be successful in this important workforce sector of Clackamas County. Students are able to create original media content with industry standard equipment. The digital media communications (DMC) coursework teaches students skills such as: digital filmmaking, documentary filmmaking, advanced digital filmmaking; stop motion, computer generated animations, special effects; sound recording techniques; screenwriting; broadcast journalism, directing and digital video editing.

In addition to their coursework, students continue to gain additional experience as interns on local productions, although that has been limited somewhat by the pandemic over the last two years. Many students are interning in production and equipment rental companies. Most recently, DMC graduates have been successful doing drone and video work and running social media and video campaigns for businesses. Six former students have started a production company and are now working to create a feature length film.

ACCOMPLISHMENTS

- CCC PEG fund purchases from FY 21-22 have provided access to industry-standard equipment for students through investment in multiple professional level cameras, sound equipment, light sets, grip and electric gear, motion capture equipment, video drones, and other equipment.
- Experience using PEG-funded equipment has helped students find internships and jobs in the Portland/Metro area, as well as starting their own production companies.
- CCC has developed and implemented digital media curriculum at the college that trains students on the latest industry-standard media production equipment that has resulted in extensive original programming content for CCCTV.
- CCC has continued to explore new avenues for content creation such as including interviews with board members, student profiles and partnerships with instructional departments.
- The CCCTV oversight committee continues to assist in developing and implementing operational and long-term plans. The CCCTV oversight committee met formally once a



term during the 2021-22 academic year.

- CCC invested in a much larger studio and editing space for the DMC program. The new space houses an area large enough for a permanent motion capture area, a larger green screen, and a blue screen needed for advanced video compositing effects. A new computer lab has also been created to teach animation graphics classes. This investment allows students to use the PEG equipment more regularly and efficiently to create original content and gain workforce skills.
- A multi-part documentary was produced on human trafficking in Clackamas County and Portland, with interviews with several Clackamas County social workers, Portland deputy district attorney, several members of the sex trafficking PPB members, and counselors/mentors for those in recovery. The videos include ways to prevent trafficking and how to support survivors/victims of trafficking.

EQUIPMENT ACQUISITION

EQUIPMENT	TOTAL
Comprehensive C+ Stereo Cable	\$17.98
Kopul Premium Cable 25'	\$169.50
JBL Bar 2.0	\$149.96
Shure Cardoid 18" Gooseneck Mic	\$1,401.60
Kanto TV Mount w/Adj Steel Tray	\$349.95
HuddlecamHD 3X Dig Zoom USB 3.0	\$242.19
YOLOLIV Portbale Mic Cam Live Streaming	\$679.64
Atomos Connect	\$101.96
Pearston 1x10" Touch Fastener Strap	\$149.80
Impact C-Stand w/Turt Base Grip Head	\$506.84
Newtek Spark Plus 4K	\$689.48
Newtek Tricaster TC mini UHD	\$8,595.00
Shipping & Handling	\$139.03
Samsung 60"	\$583.56
Shipping & Handling	\$75.14
Int Paint	\$57.96
GL Recycle Fee	\$1.90
4" Foam Brush	\$4.22
2" White Brush	\$1.28
1" White Brush	\$1.07
6x9 dropcloth	\$10.28
Con 8x2	\$7.87
6pk pock rag	\$3.48
2pk screws	\$3.15
Pic Hgr Pk	\$10.48
HDL Utility	\$5.98
8pc tray set	\$10.97
Masking paper	\$4.68



EQUIPMENT	TOTAL
2090 1.5" CP	\$34.78
DW Maxfit	\$3.97
Sheeting	\$89.28
Husky Foldback Knife	\$8.47
Empire 9 Polycast Torpedo Level	\$3.48
Lined Bax Grip	\$9.99
Anvil 16oz Smith Face Wood Hammer	\$6.48
25' x 1" Stanley tape ruler	\$4.97
Ryb 10" Miter Saw	\$134.00
Bessey Bar Clmp	\$62.85
Husky 2" metal spring lamp	\$15.84
Maxiflex XL Ultimate gloves	\$6.47
Maxiflex Large Ultimate gloves	\$6.47
Bessey 4" Ratcheting Hand Clamp	\$35.08
Ryb 6.5 Jig Saw	\$69.97
Diable 4" bim tast wood	\$12.97
1" 602 Panel Board	\$13.16
Panel Nail	\$3.98
5/16 braided nylon rope	\$14.50
#10 x 2 1/2" screw	\$21.00
1 5/8" 6oz panel board	\$3.98
1" 6oz panel board	\$3.98
1/8" 4'x8' tempered hardboard	\$146.10
1/2" 4' x 8' sheathing	\$29.76
1x3-8ft Strip Board	\$107.20
Titebond wood glue	\$10.44
2x4-96" Prime KD-Hi Whitewood	\$77.00
1/2" 4ft x 8 sheathing	\$148.80
1/2" 4ft x 8 sheathing	\$50.92
Canon XA11 Professional Camcorder	\$15,000
Black Flag 190095 Porpane Insect Fogger	\$51.55
Yamaha MG12XU 12-Input Mixer with Built-In FX	\$269.99
Kopul Studio Cable/XLR/M to ILR/F NTK - 3'	\$269.80
Audio-Technica AT875R 7"	\$2,570.40
Loftec Led Dimmable Light Ball	\$172.99
Loftec Led Dimmable Light Ball	\$172.99
APUTURE SPOTLIGHT 10-PIECE GOBO KIT	\$47.52
APUTURE SPOTLIGHT 26 SET	\$403.92
WESTCOTT FLEX CINE BI-CLR MAT 1-LIGHT SET-1	\$760.00
APUTURE NOVA P300C RGBWW LED PNL W/ROLLING	\$1,615.00
WESTCOTT JS CINE 8X8' SLV/WHT BOUNCE FBR F/	\$194.35



EQUIPMENT	TOTAL
WESTCOTT JS CINE 8X8' 1/2-STOP GRID DIFF F/	\$153.31
WESTCOTT SCRIM JIM CINE 8X8' FRAME F/ FLEX	\$323.95
NANLITE PAVOTUBE HOLDER W/SWIVEL BALL JOINT	\$52.16
CANON MOUNT ADAPTER EF-EOS R	\$86.40
LEXAR PRO SDHC/XC 1667X UHS2-128GB - 2-PACK	\$71.63
CANON EOS R6 MIRRORLESS DIGITAL CAMERA (BOD)	\$2,425.00
CANON RF 85MM F/1.2L USM LENS	\$2,699.90
Godox Flexible LED Light	\$299.25
Aputure F10 Fresnal - 10" BM Glass Lens Mod	\$183.60
Shure MX418D/C Desktop-Mounted 18" Cardoid Goos	\$1,432.08
Ryb 10" Miter Saw – Returned Item	\$(134.00)
1x3-8ft Strip Board – Returned Item	\$(53.60)
Total Spent	\$44,179.03
Clackamas County (CC) Paid	\$26,220.25
Happy Valley (HV) Paid	\$17,958.78

FUTURE PLANS

- Increase content related to student events at CCC by working with on-campus partners such as ASG (associated student government), student clubs, and Clackamas Print.
- Continue to refine the quality of production value for our programming material.
- Continue to develop partnerships with local stations like Clackamas County government channel and Willamette Falls Media Center for student opportunities and the production of content for cable channels in an educational capacity.
- Continue to refine the digital media communications curriculum by infusing best practices and exposing students to industry standards.
- Continue to place students in internships with local productions to provide relevant work-based learning opportunities.
- Continue to evaluate and purchase equipment that teaches students the skills they need to be success in the workplace and provide quality programming for our PEG channel viewers.

GOALS

- Keep up to date with industry standard equipment.
- Prepare students for a variety of entry-level positions in the media industry, including entrepreneurial endeavors.
- Provide Clackamas County with a well-trained workforce to grow its film, animation, & media industry sector.
- Provide a pathway for students to continue their education at a four-year institution.
- Increase viewership of CCCTV channel by providing content of interest to our service area.
- Fully use the newly remodeled digital media communications space on the CCC Oregon City campus.
- Expand internship opportunities for students in the DMC program.



NORTH CLACKAMAS SCHOOL DISTRICT SABIN-SHELLENBERG CENTER (NCSD-SSC)

Clackamas County provided a grant of \$92,500.00 for the 2021-2022 fiscal year to the North Clackamas School District for the continued equipment acquisition of the educational access channel.

In exchange for the contribution, North Clackamas School District agreed to continue to provide programming for the educational access channel. The North Clackamas School District contributed over \$210,000 toward operation of the channel, excluding facility support.

LOCATION

The channel is located at two facilities.

The main studio is located at the Schellenberg Technology Center, 14450 SE Johnson Road, Milwaukie. The playback is located at the Sabin Skills Center, 14211 SE Johnson Road. The two facilities are linked by a fiber optic connection.

PROGRAMMING

The North Clackamas School District educational access channel exceeded the annual average requirement of 30 hours of video programming per week. Total hours of programming for July 1, 2021 to May 31, 2022 was over 5,000 hours. A district reader board and audio was on the air when video programming was not showing. A district-supported website enables selected video programs to be streamed on demand. The department also has a YouTube channel to run programming. Our radio station is live and can be heard on the internet. The district also pays fees to ASCAP, BMI and other licensing companies for use of copyright music.

STAFFING

The North Clackamas School District's Technology and Information Services Department employs a full-time certified video production specialist who supports the access channel. In addition, the Sabin-Schellenberg Professional Center (SSC) employs one full-time certified instructor.

STUDENTS

Nearly 200 student producers are currently enrolled in media production programs. The journalism classes are now directly involved in video production as well.

GOALS

- Expand opportunities to middle school students in the district to learn more about professional broadcasting projects. Continue to connect with middle school students to learn more about programming and the broadcasting field.
- Inform local residents about the organizations, operations and services of the North Clackamas School District schools and departments.
- Provide students interested in broadcasting a hands-on learning experience and place to showcase their educational projects.
- Provide and maintain, through the advice of a professional technical skills advisory panel, professional broadcast standards, equipment, and education so students are college and career ready.



ACCOMPLISHMENTS

For the first year of the Mt. Hood Film Festival, students at SSC’s broadcasting and social media program took first place in the categories of digital cinema, video production, digital animation, and second place in photography.

Students provided a number of strong productions during the election primary season. Advanced students interviewed both candidates from the 5th congressional district in the studio or via Zoom. A special project on sexual harassment included a former graduate and a round table discussion on prevention or information for high school students. Students were able to focus on Black History Month with a studio interview of Senator Lew Frederick.

Students continue to produce a variety of programming from news, music videos, original programming, and productions for various district departments who sought student production crews this year.

NCSD-SSC continues to support all media classes at the district’s middle schools—increasing programming and information about district programs. Students at that level worked with folks in Happy Valley to provide crosswalk safety videos.

The district’s high school broadcasting department continues to be strongly involved with the Oregon Media Producers Association and is the only high school broadcasting department recognized as members in Oregon. Students have been able to work with professionals and to interview AFTRA/SAG members as part of the cast on an independent production.

EQUIPMENT ACQUISITION

EQUIPMENT	TOTAL
Outsource for Booth	\$431.00
Pro Usage	\$29.99
Streaming	\$50.82
USB Wall Charger and Amplifier	\$124.33
Lights	\$43.89
Set decorations for Fall Production	\$62.88
American Metalcraft	\$9.76
Set decorations for Spring Production	\$26.82
Shirt Props for Production	\$29.14
Set decorations for Holiday Production	\$21.97
Set decorations for Holiday Production	\$132.85
Huion Kamvas	\$229.00
Tripod and Adjustable Camera Stand	\$89.55
Extension Cords/Lights	\$44.47
Wireless Microphone Systems/Headphones/Condenser Microphone, Adapters	\$2,495.90
Battery Pack for Rebel Canon	\$124.95
Zoom Lens for Rebel Camera	\$1,899.98
USB Charger Hub	\$19.99
Adapters/Battery Charges/Mouse Pads	\$299.95
Canon Cameras with Batteries	\$4,970.94
Set Decorations-Movies Posters	\$26.60
Camera Signs	\$13.95
Movie Posters	\$103.95
IMac	\$1,598.99
IMac	\$1,399.00
Canon Lens, Canon Adapter and Batteries	\$1,974.45



EQUIPMENT	TOTAL
Studio Monitor Isolation Pads	\$116.57
Teleprompter	\$127.01
30 - 13in MacBook Pro	\$59,310.00
Apple Care - IMac	\$418.00
Mac Book Pros	\$3,238.00
Microphones	\$345.00
MacBook Pro	\$439.80
Student Projects for Studio	\$209.44
Lock charge cart for mac books	\$1,551.51
Props for Student Project for Studio	\$149.99
Surge Protectors	\$19.99
Surge Protectors	\$29.99
Office Mac 2021 License - 30	\$1,586.70
Office Mac 2021 License	\$52.89
Final Cut Pro Apps for MacOS	\$4,499.70
Final Cut Pro Apps for MacOS	\$299.99
Portable External Hard Drive	\$95.99
Total Spent	\$88,745.69
Clackamas County (CC) Paid	

FUTURE PLANS

- The department now includes a journalism class where students will be in the field covering local and school news that will be on the district's webpage along with a local newscast for the cable channel.
- Thanks to the television studio green screen, the district will continue to update the television studio with virtual sets and make room for regular newscasts.
- Students will again create their own script to produce a full-length feature film worthy of national competition.
- Bring additional live studio and location productions to cable and especially to the web.
- Invite local and national lawmakers into the studio to take part in town halls that will be broadcast on the cable channel.
- Provide additional support and training to produce a variety of programs to be cablecast and uploaded for streaming.
- Prepare middle school students for classes by inviting them to the studio to take part in programming.

GOVERNMENT ACCESS CHANNELS

CLACKAMAS COUNTY GOVERNMENT CHANNEL (#ClackCo TV)

The Clackamas County Public and Government Affairs Department (PGA) administers the #ClackCo TV government channel under policy direction of the Clackamas County Board of Commissioners (BCC). PGA also regulates cable operations for franchise agreements with cable companies and resolves disputes between the residents of Clackamas County and the cable providers. #ClackCo TV serves the public interest and promotes the Clackamas County communities while making government more accessible to its residents.



In fiscal year 2021-2022, six cable providers terminated their franchise agreements, leaving three active franchise agreements with Comcast, Zply, and Astound.

LOCATION

The video production and channel playback facilities are located in the Public Services Building at 2051 Kaen Road, Oregon City, Oregon. A Tightrope playback system cablecasts the CCGC in high definition (HD) from this facility through a fiber optic line to the Comcast headend.

The BCC hearing room is located adjacent to the government channel playback facilities. The hearing room is equipped with five wall-mounted robotic cameras, which are linked to an adjoining control room. Weekly meetings of the BCC are cablecast live from that location. Land use hearings and special meetings originating from the same facility are also carried live.

Across the campus in the Development Services Building, robotic cameras and a switching system have been installed in the auditorium for recording of budget meetings, presentations, and other public events.

More detailed information can be found on CCGC’s web site at www.clackamas.us.

PROGRAMMING

#ClackCo TV is carried on the following channels:

- Comcast (Channel 30 in most areas, Channel 29 in Milwaukie, and HD Channel 330)
- Zply (Channel 40)
- Astound Sandy (Channel 9)
- Astound Canby, Molalla, and Outlying Areas (Channel 15)

County and community announcements are carried in a reader board format when programming is not airing.

STAFFING

On-call contract producers create the majority of the programming carried on #ClackCo TV and perform a range of tasks including editing, script writing and camera operation.

Full-time staff include a video communications specialist and video network systems specialist along with support from other staff in PGA. The video network systems specialist maintains more than \$400,000 of production equipment, playback operation, video streaming system, and the live broadcast control facility.

ACCOMPLISHMENTS

- Finished installation of transport equipment that provides an HD signal to headend and allowed us to start our HD channel on Comcast.
- Installed a new playback system with remote access to allow scheduling, troubleshooting, and program changes remotely.
- Broadcasted over 260 hours of live meetings in FY 2021-2022.

EQUIPMENT ACQUISITIONS AND UPGRADES

EQUIPMENT	TOTAL
Tightrope Playback System	\$28,167.54



EQUIPMENT	TOTAL
Backpack & card wallet for drone	\$255.98
Sennheiser Mobile shotgun kit	\$229.95
Dell Editing Laptop with docking station	\$1,965.99
AsusTUF Video cards upgrade for edit PC's	\$2,299.40
BCC Broadcast record deck	\$1,253.50
Mackie Wireless Audio mixer kit	\$3,605.38
Two LED Light Kits	\$1,798.00
Porta brace wheeled equipment bag set (2)	\$837.25
Radial Press Box	\$324.99
Cables for BroadcastPix install	\$89.22
LED tape lights for rack	\$16.99
Panasonic Eneloop rechargeable batteries (16)	\$34.95
Sennheiser me2 lav mic	\$129.95
Rechargeable camera batteries (2) and charger	\$52.99
Audio Cables	\$361.73
Insta360 rechargeable batteries (2) and charger	\$79.97
Video review and edit software	\$1,620
Sony SDHC UHS-II memory cards(2)	\$119.98
Various upgrades, parts, hardware, for Tightrope install	\$1218.25
Total Spent	\$44,462.01

FUTURE PLANS

- Develop more production space
- Purchase new production cameras
- Upgrade edit systems

BUDGET

CCGC spent \$44,462.01 in PEG fees on capital equipment expenditures during FY 2021-2022 and \$117,305.00 in video production services.

INSTITUTIONAL NETWORK SUMMARY (I-NET)

CLACKAMAS BROADBAND EXCHANGE (CBX)

The CBX network is designed to provide low cost, point-to-point network access to public and commercial entities throughout Clackamas County including schools, colleges, libraries, medical facilities, police, fire stations, and other public agencies. Broadband connections using CBX will be at less cost and will have higher bandwidth speed and more capacity than existing I-Net connections. For example, a pair of dark fiber that typically provides 10 gigabit of bandwidth can be obtained for \$255.00 per month for public institutions.

The network infrastructure's design has allowed Clackamas County to plan for future growth. CBX interconnects with local service providers to allow them access to the state-of-the-art infrastructure to enhance and expand their current services to local businesses and households. CBX is part of



the comprehensive Clackamas County communications plan to increase high-speed communications within the county.

The network was created in 2010 through \$11.1 million in funding (\$7.8 million from the federal American Recovery and Reinvestment Act grant and \$3.3 million from county contributions).

CBX operates an annual budget created by revenue generated by the use of the network and additional grant funds. In 2021, the county allocated \$2.5 million from federal funding received under the American Rescue Plan Act (ARPA) to expand broadband services to residents in rural and underserved areas within the county.

To date, CBX brings affordable broadband service to more than 409 community anchor sights countywide along a 363-mile fiber optic network.

CURRENT GOALS

- Identify, design, engineer and construct new fiber to the home infrastructure to unserved and underserved areas within Clackamas County using ARPA funding. These new broadband projects will:
 - Deploy fiber to areas not covered by the current networks, most notably unserved and underserved areas.
 - CBX partners with other public and private internet agencies to provide better broadband service levels to communities of need to foster distance learning, remote working and telehealth during the COVID-19 pandemic and subsequent recovery.

BUDGET

Description	Expense	Revenue
CBX reimbursement to cable for PEG funds (to date)	NA	\$184,554.40