

TOWER OF POWER

Viewers depend on NHPBS for information and entertainment, from timely local specials to established PBS favorites. Having a clear and trouble-free viewing and listening experience is part and parcel of enjoying NHPBS, no matter your location or device.

The NHPBS technical staff is a four-person team that keeps the station on the air, resolves technical issues, and ensures equipment meets the latest standards. During the pandemic, the team also met the critical challenge of transitioning NHPBS staff to remote operations.

On a recent morning, team members set out for an all-day journey taking them from the NHPBS Durham base to the station's three high-powered transmitters — large antennas reaching high into the sky — dotted throughout New Hampshire. The team traveled more than 350 miles — to Mann Hill (northeast of Littleton), down to Derry Hill (near Walpole in the southwest) and, lastly, to Saddleback Mountain in Deerfield. The purpose: an FCC inspection that takes place every three years to ensure standards are being met so NHPBS can maintain its broadcast license.

“A transmitter is made up of multiple power amplifiers,” says Steve Chao, NHPBS director of studio technologies and the team leader. “If one of these power amplifiers goes out, it reduces the transmitter power overall, and the signal doesn’t reach as far — impacting the viewer experience.”

The technology team constantly monitors systems for transmitter trouble. Notifications mainly come in via e-mail; a central computer in Durham tracks all remote properties in real time. Still, engineers must drive to the properties frequently to understand specifically what is happening. The transmitters near Colebrook and Littleton are in isolated locations,



accessible only with four-wheel drive vehicles. During winter, NHPBS depends on a local snowmobile club for rides to access the tower.

“We have to make sure the towers are structurally sound, and meeting FCC and FAA requirements at all times,” explains Chao. “This involves everything from quarterly on-site inspections, to making sure the towers are painted the right color and the transmitter lights are on, to meet aviation standards.” Tech staff also clear undergrowth, trees and brush around the transmitter locations, as tall vegetation can take down the guidewires of a transmitter and thus interfere with the signal.

Chao’s tower team includes Studio Technologist Adam Goodine and Facilities Coordinator Shawn Roche. The team recently finished installing a new transmitter in Hanover that increased signal power, allowing more viewers to tune in via a larger coverage area.

“New Hampshire is a very hilly state, and a broadcast transmission really can’t go through mountains or through hills,” says Chao. “You really need a transmitter on both sides to cover as much as you can.” Chao explains that viewer receptivity can be affected in all kinds of ways. During spring, new leaves on trees can block a broadcast signal. Apartment buildings present challenges when a signal is on the opposite end of the building from where the viewer lives. New buildings going up can obstruct signal receptivity, as can natural conditions like wind direction or water interference.

No matter the conditions, the NHPBS technical staff works hard to give viewers the best experience possible. Viewers can learn more about technology at NHPBS online at nhpbs.org/about/receptn.asp, or check signal receptivity at tvfool.com.

NHPBS PRIMETIME PICKS



Our Hometown

FRIDAYS | 7 PM NHPBS

Come and explore the Granite State one story at a time! Join host Rebecca Rule and the NHPBS production team each week as they collect stories from local residents. Explore the towns of Milford, Littleton, Conway and Ashland all throughout July.



Mona Lisa is Missing

SUN Jul 3 | 4:30 PM NHPBS

It's the most famous painting in the world. Nearly 8.5 million people visit her every year. Yet few have ever heard about the time the Mona Lisa actually vanished from the Louvre in Paris for nearly two and a half years.



America Outdoors with Baratunde Thurston

TUE Jul 5 | 9 PM NHPBS

From wilderness pilots flying "below the rim" in Idaho to coal miners turned beekeepers in Appalachia to Black surfers catching waves in Los Angeles, Baratunde introduces viewers to a vivid cast of characters whose outdoor lives are shaped by where they live.



The Great Muslim American Roadtrip

TUE Jul 5 | 10 PM NHPBS

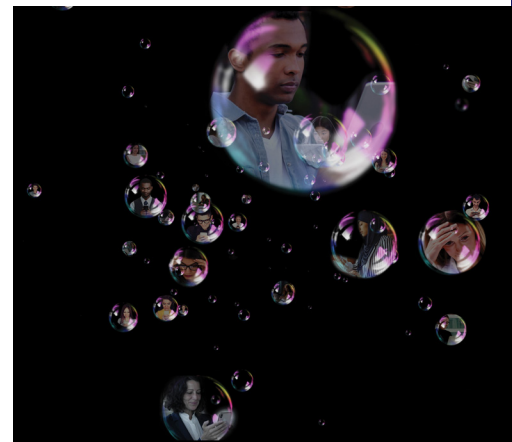
Follow a Muslim American couple on a cross-country journey along historic Route 66. As they meet new friends and explore more than a dozen stops, Mona and Sebastian weave a colorful story about what it means to be Muslim in America today.



The Green Planet

WED Jul 6 | 8 PM NHPBS

Sir David Attenborough travels the globe to reveal the secret lives of plants. Using pioneering camera techniques, the series takes viewers on a magical journey inside the hidden world of plants, on which all animals—including humans—are dependent.



Trust Me

THU Jul 7 | 8 PM NHPBS

TRUST ME explores the manipulation and misinformation at the intersection of human nature and information technology, while explaining how that drives a need for media literacy. Expert interviews point the way toward a positive future.

5 CHANNEL SPOTLIGHT

OUR PRIMARY CHANNEL, NHPBS, IS NOW STREAMED LIVE AT NHPBS.ORG/LIVESTREAM



COBRA SEASON 2

SUN Jul 10 | 10 PM NHPBS

Follow the British Prime Minister and his Cabinet Office Briefing Room A (COBRA) committee, comprised of leading contingency planners and senior politicians, as they navigate the difficulties of overcoming a major national crisis.



SENSE AND SENSIBILITY

WED Jul 6 | 8 PM NHPBS EXPLORE

From acclaimed writer Andrew Davies comes this enchanting adaptation of Jane Austen's classic novel about love and marriage. Will the sisters learn that sense must mix with sensibility if they are to find personal happiness in a society where status and money govern the rules of love?



AMERICA'S TEST KITCHEN GOES TO EUROPE

Marathon FRI Jul 22 | 9 PM NH CREATE

Get ready for a culinary expedition! Follow the crew of AMERICA'S TEST KITCHEN on a European culinary adventure, with virtual stops in Spain, Italy, France, Ireland, Austria and Switzerland.



MYSTERIES OF MENTAL ILLNESS

TUE Jul 5 | 9 PM NH WORLD

Explore the evolution in understanding, and the dramatic attempts across generations to unravel the difficult questions surrounding mental illness. What causes it? And how is it best treated?



CURIOUS GEORGE: GO WEST, GO WILD

FRI Jul 1 | 8:30 PM NHPBS KIDS

George and Ted travel to cousin Ginny's farm for a relaxing outdoor weekend, but plans take a turn when her farm animals escape into the wild blue yonder. With the help of Emmett, a friendly farmhand with cowboy dreams, the group sets out to track the herd through the countryside.

MORE TO EXPLORE



The Great American Recipe

FRI Jul 1 | 9 PM NHPBS



Roadfood

SAT Jul 2 | 6 PM NHPBS



A Capitol Fourth

MON Jul 4 | 8 PM NHPBS



Expedition with Steve Backshall

WED Jul 6 | 10 PM NHPBS



Take Pains: Be Perfect

FRI Jul 8 | 8 PM NHPBS

ON-AIR | MOBILE | ONLINE | CLASSROOMS | COMMUNITY

NH PBS JULY 2022 PROGRAM SCHEDULE

	6:30 PM	7:00 PM	7:30 PM	8:00 PM	8:30 PM	9:00 PM	9:30 PM	10:00 PM
Fri. 7/1	PBS NewsHour*	Our Hometown Milford	Rick Steves' Europe	Stories from the Stage	Open Studio with Jared Bowen	The Great American Recipe The Daily Dish		American Anthems Pocket Change
Sat. 7/2	Welcome to My Farm	Escape to the Chateau		Hotel Portofino Lessons		Endeavour On Masterpiece**		
Sun. 7/3	The Black Church: This Is Our Story, This Is Our Song*			Hotel Portofino Invitations		Endeavour On Masterpiece**		
Mon. 7/4	PBS NewsHour*	Windows to the Wild Flags On NH's 48	Rick Steves' Europe	A Capitol Fourth 2022			A Capitol Fourth 2022**	
Tue. 7/5	PBS NewsHour*	Windows to the Wild Seek The Peak	Rick Steves' Europe	Finding Your Roots All in the Family		America Outdoors with Baratunde Thurston Death Valley: Life Blooms		The Great Muslim American Road Trip*
Wed. 7/6	PBS NewsHour*	Windows to the Wild Sectional Hiker	Windows to the Wild A Trek Through Scotland	The Green Planet Tropical Worlds		Nova NOVA Universe Revealed: Age of Stars		Expedition with Steve Backshall**
Thu. 7/7	PBS NewsHour*	Windows to the Wild Adirondack Hut Boy	Rick Steves' Europe	Trust Me		Reel South That's Wild		Reel South**
Fri. 7/8	PBS NewsHour*	Our Hometown Littleton	Rick Steves' Europe	Take Pains. Be Perfect.		The Great American Recipe Love Language		American Anthems Soldier On All Fours
Sat. 7/9	Welcome to My Farm Strawberries Forever	Escape to the Chateau		Hotel Portofino Invitations		Endeavour On Masterpiece**		
Sun. 7/10	The Black Church: This Is Our Story, This Is Our Song*			Hotel Portofino Uncoverings		Grantchester On Masterpiece		Cobra**
Mon. 7/11	PBS NewsHour*	Windows to the Wild Thoreau at Walden Pond	Rick Steves' Europe	Antiques Roadshow		Antiques Roadshow		P.O.V.**
Tue. 7/12	PBS NewsHour*	Windows to the Wild Barry Burbank Takes A Hike	Rick Steves' Europe	Finding Your Roots Grandparents and Other Strangers		America Outdoors with Baratunde Thurston Idaho: Tied to the Land		The Great Muslim American Road Trip*
Wed. 7/13	PBS NewsHour*	Windows to the Wild Finding Your Way	Windows to the Wild Memories of Hurricane Island	The Green Planet Water Worlds		Nova Ultimate Space Telescope		Expedition with Steve Backshall**
Thu. 7/14	PBS NewsHour*	Windows to the Wild Rico The Hiking Cat	Rick Steves' Europe	UnReined		American Masters Brian Wilson: Long Promised Road		
Fri. 7/15	PBS NewsHour*	Our Hometown Conway	Rick Steves' Europe	Leisurama		The Great American Recipe Moveable Feasts		American Anthems Let The Words Come Out
Sat. 7/16	Welcome to My Farm The Chicks Are Coming!	Escape to the Chateau		Hotel Portofino Uncoverings		Grantchester On Masterpiece		Cobra**
Sun. 7/17	Jackie Robinson*			Hotel Portofino Discoveries		Grantchester On Masterpiece		Cobra**
Mon. 7/18	PBS NewsHour*	Windows to the Wild The Mountain Wanderer	Rick Steves' Europe	Antiques Roadshow		Antiques Roadshow		P.O.V.**
Tue. 7/19	PBS NewsHour*	Windows to the Wild Kayaking with Outdoor Afro	Rick Steves' Europe	Finding Your Roots Secrets & Lies		America Outdoors with Baratunde Thurston La: Its A Vibe		The Great Muslim American Road Trip*
Wed. 7/20	PBS NewsHour*	Windows to the Wild Forest Therapy with Dogs	Windows to the Wild Trekking Norway	The Green Planet Seasonal Worlds		Nova NOVA Universe Revealed: Milky Way		Expedition with Steve Backshall**
Thu. 7/21	PBS NewsHour*	Windows to the Wild Memorial Hike	Rick Steves' Europe	Chasing Silver: The Story of Gorham		Icon: Music Through The Lens On Camera		Icon: Music Through The Lens**
Fri. 7/22	PBS NewsHour*	Our Hometown Ashland	Rick Steves' Europe	In The Water, Behind The Lens		The Great American Recipe Party on a Plate		American Anthems Make Tomorrow Come Today
Sat. 7/23	Welcome to My Farm Poultry Pals	Escape to the Chateau		Hotel Portofino Discoveries		Grantchester On Masterpiece		Cobra**
Sun. 7/24	Jackie Robinson*			Hotel Portofino Denouements		Grantchester On Masterpiece		Cobra**
Mon. 7/25	PBS NewsHour*	Windows to the Wild High Places	Rick Steves' Europe	Antiques Roadshow		Antiques Roadshow		P.O.V.**
Tue. 7/26	PBS NewsHour*	Windows to the Wild Hidden Treasures	Rick Steves' Europe	Finding Your Roots Science Pioneers		America Outdoors with Baratunde Thurston Appalachia: A Different Way		Frontline**
Wed. 7/27	PBS NewsHour*	Windows to the Wild Seek The Peak	Windows to the Wild Puffins of Newfoundland	The Green Planet Desert Worlds		Nova NOVA Universe Revealed: Alien Worlds		Expedition with Steve Backshall**
Thu. 7/28	PBS NewsHour*	Windows to the Wild Wood Island Lifesaving Station	Rick Steves' Europe	Chasing Silver: The Story of Gorham		Icon: Music Through The Lens On The Record		Icon: Music Through The Lens**
Fri. 7/29	PBS NewsHour*	Windows to the Wild Summits In Solidarity	Rick Steves' Europe	Dutch Hop!		The Great American Recipe Mix It Up		American Anthems What You're Here For
Sat. 7/30	Welcome to My Farm Lavender In Bloom	Escape to the Chateau		Hotel Portofino Denouements		Grantchester On Masterpiece		Cobra**
Sun. 7/31	America ReFramed For The Love of Rutland			To Be Announced		Grantchester On Masterpiece		Cobra**

Please Note: Programs on NHPBS begin before 6:30 PM when marked *. Programs end at 10:30 PM unless marked **
This program schedule is subject to change. Go to nhpbs.org/schedule for the most up-to-date listing of programs.

	6:30 PM	7:00 PM	7:30 PM	8:00 PM	8:30 PM	9:00 PM	9:30 PM	10:00 PM
Fri. 7/1	Pati's Mexican Table	PBS NewsHour		Washington Week	Firing Line with Margaret Hoover	The Open Mind	The Black Church: This Is Our Story, This Is Our Song	
Sat. 7/2	The Lawrence Welk Show*	Pacific Heartbeat		Pacific Heartbeat		The Long Coast		
Sun. 7/3	Great Performances* The Sound of Music			Prehistoric Road Trip Welcome to Fossil Country		Prehistoric Road Trip We Dig Dinosaurs		Prehistoric Road Trip**
Mon. 7/4	Pati's Mexican Table	PBS NewsHour		Midsomer Murders		Walking Hadrian's Wall with Robson Green		Roadkill On Masterpiece**
Tue. 7/5	Pati's Mexican Table	PBS NewsHour		Hotel Portofino		Endeavour On Masterpiece**		
Wed. 7/6	Pati's Mexican Table	PBS NewsHour		Sense and Sensibility		The Indian Doctor		Thou Shalt Not Kill**
Thu. 7/7	Pati's Mexican Table	PBS NewsHour		Professor T (UK)		Agatha Christie's: Poirot		Broadchurch**
Fri. 7/8	Pati's Mexican Table	PBS NewsHour		Washington Week	Firing Line with Margaret Hoover	The Open Mind	The Black Church: This Is Our Story, This Is Our Song	
Sat. 7/9	The Lawrence Welk Show*	Pacific Heartbeat		Pacific Heartbeat		Finding Your Roots		Antiques Roadshow Recut
Sun. 7/10	PBS NewsHour Weekend* Episode 4			Nova NOVA Universe Revealed: Age of Stars		America Outdoors with Baratunde Thurston		The Great Muslim American Road Trip**
Mon. 7/11	Steven Raichlen's Project Smoke	PBS NewsHour		Midsomer Murders		Walking Hadrian's Wall with Robson Green		Roadkill On Masterpiece**
Tue. 7/12	Steven Raichlen's Project Smoke	PBS NewsHour		Hotel Portofino		Grantchester On Masterpiece		Cobra**
Wed. 7/13	Steven Raichlen's Project Smoke	PBS NewsHour		Sense and Sensibility		The Indian Doctor		Thou Shalt Not Kill**
Thu. 7/14	Steven Raichlen's Project Smoke	PBS NewsHour		Professor T (UK)		Agatha Christie's: Poirot		Broadchurch**
Fri. 7/15	Steven Raichlen's Project Smoke	PBS NewsHour		Washington Week	Firing Line with Margaret Hoover	The Open Mind	Roadtrip Nation: Caring Forward	
Sat. 7/16	The Lawrence Welk Show*	Finding Your Roots		AfroPop: The Ultimate Cultural Exchange		American Masters Brian Wilson: Long Promised Road		
Sun. 7/17	PBS NewsHour Weekend* Episode 6			Nova Ultimate Space Telescope		America Outdoors with Baratunde Thurston		The Great Muslim American Road Trip**
Mon. 7/18	Steven Raichlen's Project Smoke	PBS NewsHour		Midsomer Murders		Walking Hadrian's Wall with Robson Green		Roadkill On Masterpiece**
Tue. 7/19	Steven Raichlen's Project Smoke	PBS NewsHour		Hotel Portofino		Grantchester On Masterpiece		Cobra**
Wed. 7/20	Steven Raichlen's Project Smoke	PBS NewsHour		Sense and Sensibility		The Indian Doctor		Thou Shalt Not Kill**
Thu. 7/21	Steven Raichlen's Project Smoke	PBS NewsHour		Shakespeare & Hathaway-Private Investigators		Agatha Christie's: Poirot		Broadchurch**
Fri. 7/22	Steven Raichlen's Project Smoke	PBS NewsHour		Washington Week	Firing Line with Margaret Hoover	The Open Mind	P.O.V. Manzanar, Diverted: When Water Becomes Dust	
Sat. 7/23	The Lawrence Welk Show*	American Masters Never Too Late: The Doc Severinsen Story			Icon: Music Through The Lens		Icon: Music Through The Lens	
Sun. 7/24	PBS NewsHour Weekend* Episode 8			Nova NOVA Universe Revealed: Milky Way		America Outdoors with Baratunde Thurston		The Great Muslim American Road Trip**
Mon. 7/25	Steven Raichlen's Project Smoke	PBS NewsHour		Midsomer Murders		Trouble with Maggie Cole		Roadkill On Masterpiece**
Tue. 7/26	Steven Raichlen's Project Smoke	PBS NewsHour		Hotel Portofino		Grantchester On Masterpiece		Cobra**
Wed. 7/27	Steven Raichlen's Project Smoke	PBS NewsHour		Howards End On Masterpiece		The Indian Doctor		Thou Shalt Not Kill**
Thu. 7/28	Curious George*	PBS NewsHour		Shakespeare & Hathaway-Private Investigators		Agatha Christie's: Poirot		Broadchurch**
Fri. 7/29	Curious George*	PBS NewsHour		Washington Week	Firing Line with Margaret Hoover	The Open Mind	America ReFramed	
Sat. 7/30	The Lawrence Welk Show*	American Masters Walter Winchell: The Power of Gossip		Antiques Roadshow Recut	Icon: Music Through The Lens		Icon: Music Through The Lens	
Sun. 7/31	The Good Road* On The Burmese Border: Free Burma Ranger			Nova NOVA Universe Revealed: Alien Worlds		America Outdoors with Baratunde Thurston		Finding Your Roots**

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HOTEL PORTOFINO



nhpbs.org/watchmore

SHARE YOUR FAVORITE FAMILY RECIPE!

In the spirit of THE GREAT AMERICAN RECIPE, NHPBS is celebrating local and immigrant stories about how food connects us.

nhpbs.org/food

Send us your favorite family recipe you'll be entered to win a special NHPBS prize.



JUL 2022

AMERICA OUTDOORS
WITH BARATUNDE THURSTON



NH  **PBS**