

ACRONYMS AND ABBREVIATIONS

°C	degrees Celsius	dBp	peak, unweighted decibels
°F	degrees Fahrenheit	DMPTR	Digital Multi-Purpose Training Range
µm	micrometer(s)	DNL	Day-Night Sound Level
µg/L	micrometer(s) per liter	DoD	Department of Defense
ac.	acre(s)	DTR	Demolition Training Range
ACHP	Advisory Council on Historic Preservation	E	Endangered
ACS	American Community Survey	EFSC	Energy Facility Siting Council
ADNL	A weighted Day-Night Sound Level	EIS	Environmental Impact Statement
A-G BOMBEX	Air-to-Ground Bombing Exercise	EO	Executive Order
A-G GUNEX	Air-to-Ground Gunnery Exercise	EOD	Explosive Ordnance Disposal
A-G MISSILEX	Air-to-Ground Missile Exercise	EPA	Environmental Protection Agency
AGL	Above Ground Level	EPCRA	Emergency Planning and Right-to-Know Act
APE	Area of Potential Effect	EPR	Engine Power Ratio
APZ	Accident Potential Zone	ESA	Endangered Species Act
ARTCC	Air Route Traffic Control Center	ESHP	Equivalent Shaft Horsepower
ATC	Air Traffic Control	ETR	Engine Thrust Request
ATCAA	Air Traffic Control Assigned Airspace	F&ES	Fire and Emergency Services
B2H	Boardman to Hemingway	FAA	Federal Aviation Administration
BB	bitterbush	FL	Flight Level
BCA	Boardman Conservation Area	FNWA	Federal Noxious Weed Act
BCC	Bird of conservation concern	FPFA	Farmland Protection Policy Act
BCR 9-OR/WA	Portion of Bird Conservation Region 9 located in Oregon/Washington	FR	Federal Register
BG	Bunchgrass	ft.	foot/feet
BLM	Bureau of Land Management	ft. ²	square foot/feet
BNOISE2	Blast Noise Prediction Model	g	gram(s)
BP	Before Present	gal.	gallon(s)
C	Candidate	GE	General Electric
CAA	Clean Air Act	GF	Annual Grass/forb
cal	caliber	GIS	Geographic Information System
CDNL	C-weighted Day-Night Sound Level	GSA	General Services Administration
CEQ	Council on Environmental Quality	ha	hectare(s)
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	HARM	High-Speed Anti-Radiation Missile
C.F.R.	Code of Federal Regulations	HMMWV	High Mobility Multipurpose Wheeled Vehicles
CH ₄	methane	HMX	High Melting Explosive (octahydro-1,3,5,7-tetranitro-1,3,5,6-tetraoocine)
CLFR	Convoy Live Fire Range	Hz	Hertz
cm	centimeter(s)	ICRMP	Integrated Cultural Resources Management Plan
CNEL	Community Noise Equivalent Level	IEEE	Institute of Electrical and Electronics Engineers
CNRNW	Commander, Navy Region Northwest	IFR	Instrument Flight Rules
CO	carbon monoxide	in.	inch(es)
CO ₂	carbon dioxide	INRMP	Integrated Natural Resources Management Plan
COMNAVREGNW	Commander Navy Region Northwest	JU	juniper tree
CRE	Comprehensive Range Evaluation	kg	kilogram(s)
CTUIR	Confederated Tribes of the Umatilla Indian Reservation	CIAS	Modeled Average Speed
dB	decibels	km	kilometer(s)
dBA	A-weighted decibels	km ²	square kilometer(s)
dBc	C-weighted decibels	kph	kilometer(s) per hour

kV		kilovolt(s)	O ₃		ozone
LATT		Low Altitude Tactical Training	OBIC		Oregon Biodiversity Information Center
L		liter(s)	ODFW		Oregon Department of Fish and Wildlife
lb.		pound(s)	OMD		Oregon Military Department
L _{dnmr}		A-weighted day-night average sound level	ORAP		Operational Range Assessment Program
L _{eq}		Equivalent Sound Level	ORC		Operational Range Clearance
L _{max}		Maximum Unweighted Sound Level	ORNG		Oregon National Guard
LRA		Local Redevelopment Authority	ORS		Oregon Revised Statutes
LS		open, low shrub	OPNAVINST		Chief of Naval Operations Instruction
LZ		Landing Zones	oz.		ounce(s)
m		meter(s)	Pb		lead
m ²		square meter(s)	PGE		Portland General Electric
mg/kg		milligram(s) per kilogram	PM		Particulate Matter
mi.		mile(s)	PM _{2.5}		Particulate Matter ≤ 2.5 μm diameter
mm		millimeter(s)	PM ₁₀		Particulate Matter ≤ 10 μm diameter
MMR		Military Munitions Rule	PO		pond
MOA		Military Operations Area	RA		Restricted Area
MP		Management Practice	RAICUZ		Range Air Installation Compatible Use Zone
mph		miles per hour	RCA		Range Condition Assessment
MPMGR		Multi-Purpose Machine Gun Range	RCRA		Resource Conservation and Recovery Act
MR_NMAP		MOA-Range NOISEMAP	RDT&E		Research, Development, Test, and Evaluation
MSCCAA		Multi-Species Candidate Conservation Agreement with Assurances	RNA		Research Natural Area
MSL		Mean Sea Level	ROI		Region of Influence
MTR		Military Training Route	RPM		Revolutions Per Minute
MW		megawatt(s)	RSEPA		Range Sustainability Environmental Program Assessment
n/a		not applicable	SB		sagebrush
N ₂ O		nitrous oxide	SCR		sensitive-critical
NA		Number-of-Events At or Above a Selected Noise Threshold	SDZ		Surface Danger Zone
NAAQS		National Ambient Air Quality Standards	SEAT		Single-Engine Air Tanker
NAGPRA		Native American Graves Protection and Repatriation Act	SECNAVINST		Secretary of the Navy Instruction
NAS		Naval Air Station	SEL		Sound Exposure Level
NATOPS		Naval Air Training and Operating Procedures Standardization	SEL _r		Onset-Rate Adjusted Sound Exposure Level
Navy		U.S. Department of the Navy	SHPO		State Historic Preservation Officer
NC		Engine Core RPM	SO ₂		sulfur dioxide
NE		northeast	SO _x		sulfur oxide
NEPA		National Environmental Policy Act	SOC		species of concern
NEW		Net Explosive Weight	SOH		Safety and Occupational Health
NFPA		National Fire Protection Association	SOP		Standard Operating Procedure
NGB		National Guard Bureau	ST		Human Structure
NHPA		National Historic Preservation Act	SUA		Special Use Airspace
nm ²		square nautical mile(s)	SUAS		Small Unmanned Aircraft Systems
NMFS		National Marine Fisheries Service	SV		Sensitive Vulnerable
NO ₂		nitrogen dioxide	Tg		teragram(s)
NO _x		nitrogen oxide	Tg CO ₂ Eq.		teragrams of carbon dioxide equivalent
NOI		Notice of Intent	TNT		trinitrotoluene
NOTAM		Notice to Airmen	TOW		Optically Tracked, Wire-Guided Missile
NRHP		National Register of Historic Places	TUAS		Tactical Unmanned Aircraft Systems
NSA		National Security Area	UA		Unmanned Aircraft
NWSTF		Naval Weapons Systems Training Facility	UAS		Unmanned Aircraft Systems
			UAV		Unmanned Aircraft Vehicle
			UCD		Umatilla Chemical Depot

UEC	Umatilla Electric Cooperative
U.S.	United States
USA	United States of America
U.S.C.	United States Code
USEPA	U.S. Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
V/m	Volts per meter
VFR	Visual Flight Rules
VOC	Volatile Organic Compound
VOR	Very High Frequency Omnidirectional Range
VR	Visual Flight Route Military Training Routes
WDZ	Weapons Danger Zone
WGS	Washington ground squirrel

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