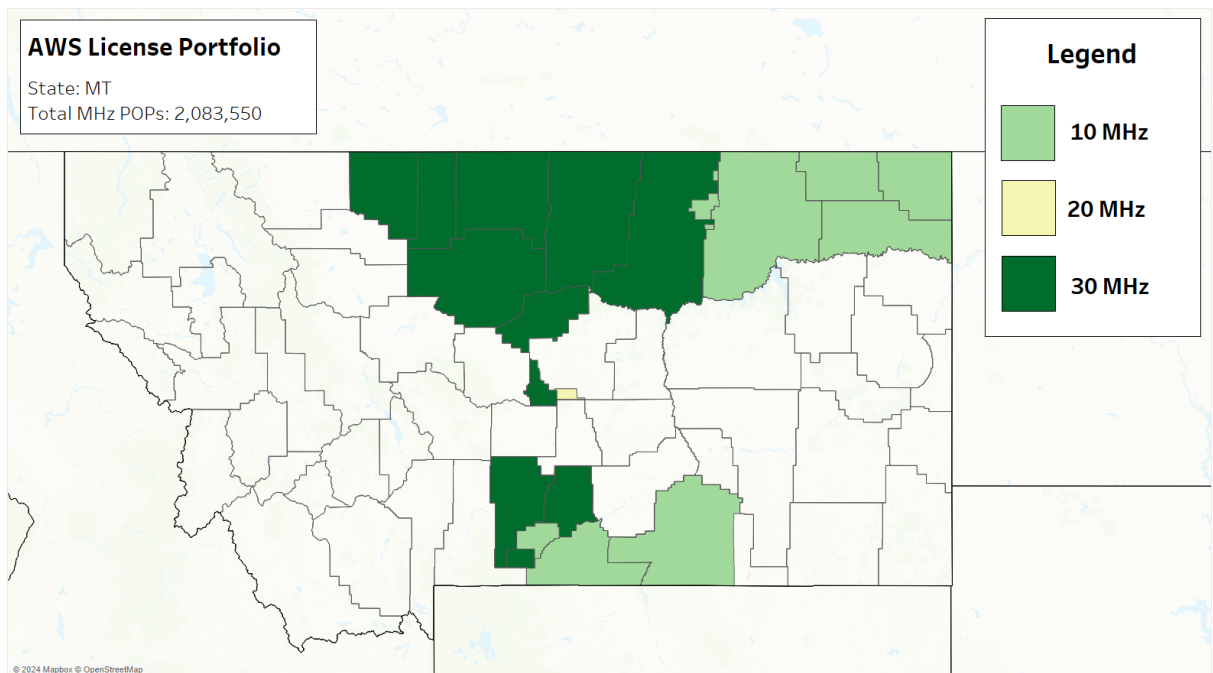




## Wireless Spectrum Licenses in the Advanced Wireless Services (AWS) Supporting Broadband, LTE and 5G Technologies Available in Limited Areas in the Northwestern US Region

Select Spectrum is offering licenses for **Advanced Wireless Services (AWS) in the AWS-1 and AWS-3 FCC licensed spectrum bands**. The frequencies have been identified and are in use for mobile cellular operations by a wide number of operators. Coverage is presently available for purchase via Select Spectrum in portions of Montana. This presents a valuable opportunity for establishing new networks and enhancing existing infrastructure, ensuring robust connectivity and capacity in high-demand areas.

The map below shows spectrum available for purchase in green.

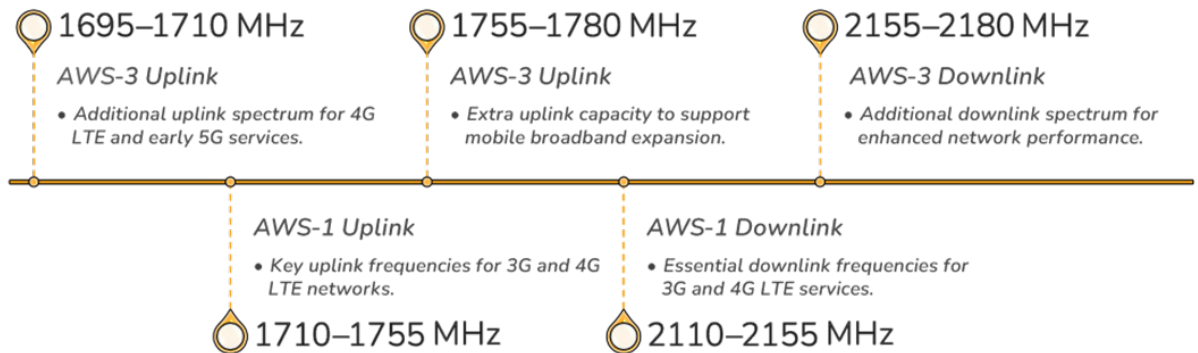


**AWS spectrum bands are crucial for various applications across multiple industries, particularly for mobile carriers.** The AWS-1 and AWS-3 bands are essential for high-speed mobile broadband services, supporting 4G LTE and emerging 5G networks. These bands provide reliable, high-capacity connectivity in both densely populated urban areas and remote rural locations. They enable advanced applications such as private LTE networks for enterprises and industries like manufacturing, agriculture, and logistics.

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All offered AWS bands are Full Division Duplex (FDD). The AWS band plan is shown below, with Select Spectrum offering AWS-1 and AWS-3 licenses:



The AWS bands are governed by Part 27 cellular regulations within Title 47 of the CFR. Maximum downlink power varies by geographic location. Within rural areas, up to 3280 watts EIRP / MHz may be utilized and in urban areas power is limited to 1640 Watts EIRP / MHz. Fixed, mobile and portal stations on the uplink have a power limit of 1 watt EIRP. Maximum out of band emissions are limited to  $43 + 10\log(P)$  dB.

In addition to mobile cellular use cases, AWS spectrum is also ideal for smart city initiatives, enhancing connectivity for IoT devices and infrastructure management. It supports cellular networks in managing a high volume of devices and provides the necessary bandwidth and coverage for real-time data transmission. This capability is crucial for smart city applications, including intelligent traffic management, environmental monitoring, and public safety. By optimizing cellular networks, AWS spectrum helps cities manage resources efficiently, lower operational costs and improve residents' quality of life through interconnected services.

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