

**SPR-821: DEVELOP NEW METHODS TO USE ODOT WEIGH-IN-MOTION DATA
FOR PREDICTING FREIGHT FLOW AND/OR COMMODITY PATTERNS**

Directional and Seasonal Trend Plots by Classification

by

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DIRECTIONAL TRENDS

Volume Trends

The following plots show the directional volume trends by WIM station for ODOT Class 03 to ODOT Class 10 trucks, ODOT Class 11 trucks, ODOT Class 12 to ODOT Class 19 trucks, and all trucks (ODOT Class 03 to ODOT Class 19, excluding Class 04 and Class 07).

Plots begin on the following page.

Ashland WIM Stations

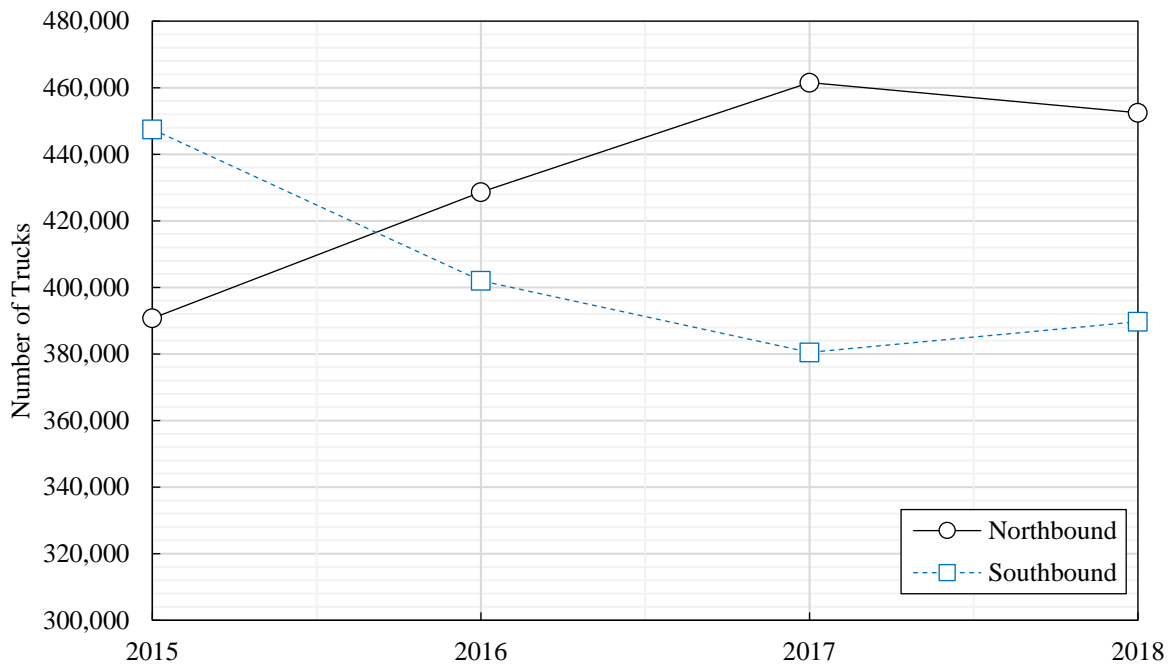


Figure 1: Directional Volume Trends by Year at Ashland WIM Stations for ODOT Class 03 to ODOT Class 10 Trucks

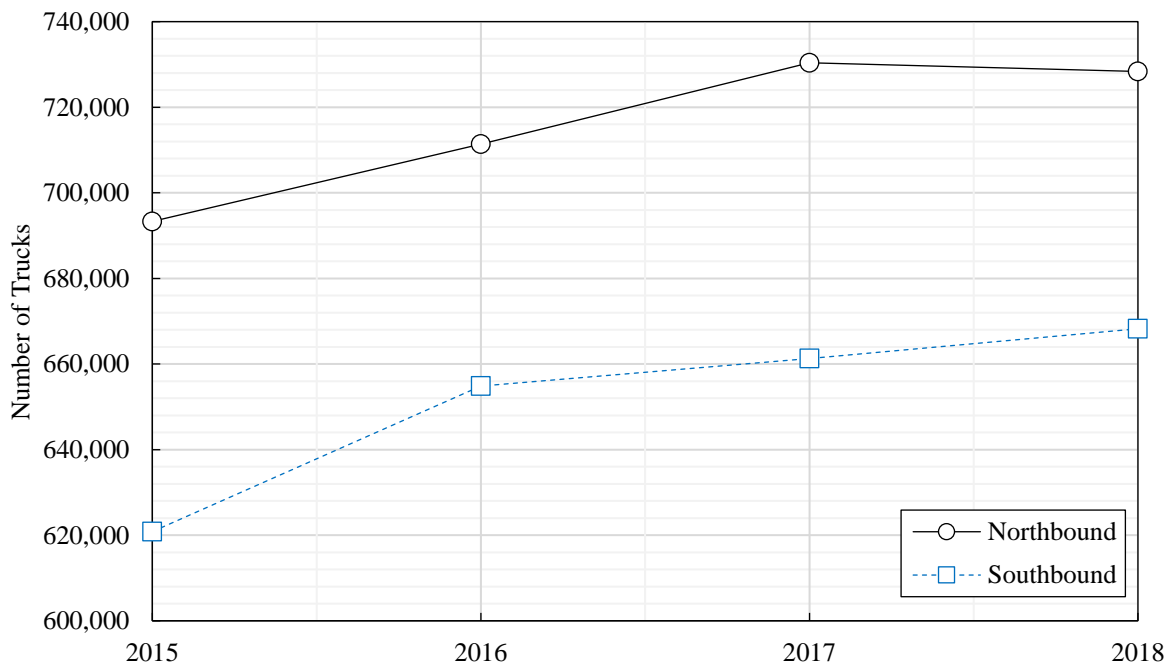


Figure 2: Directional Volume Trends by Year at Ashland WIM Stations for ODOT Class 11 Trucks

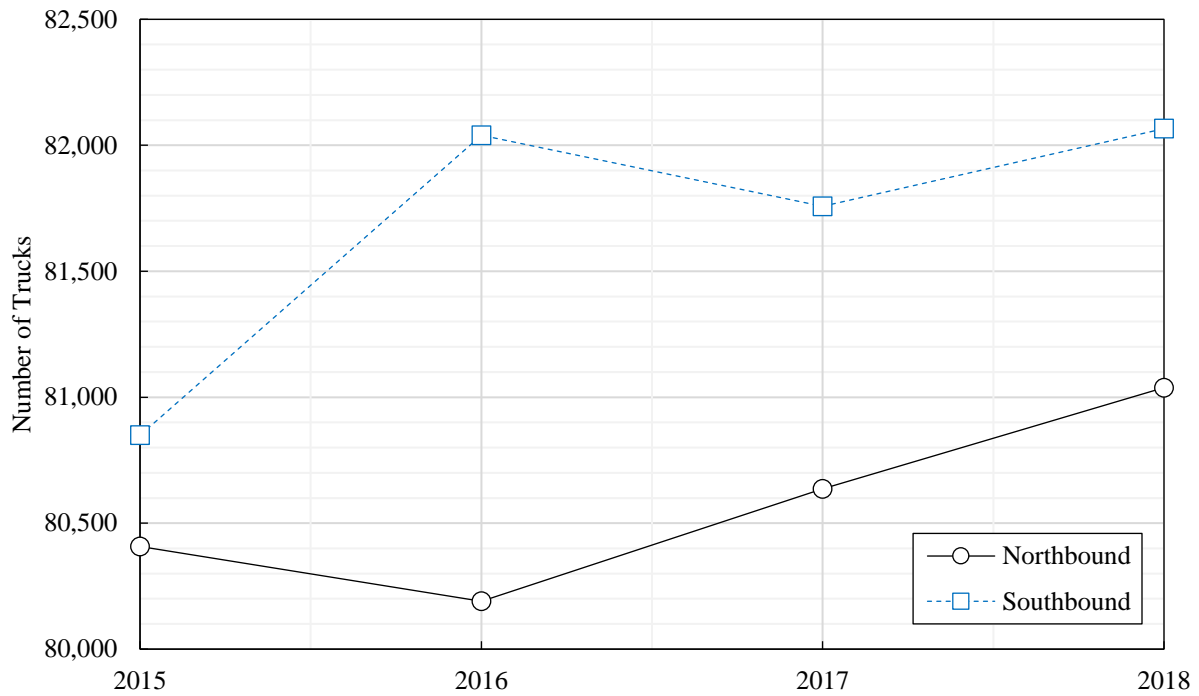


Figure 3: Directional Volume Trends by Year at Ashland WIM Stations for ODOT Class 12 to ODOT Class 19 Trucks

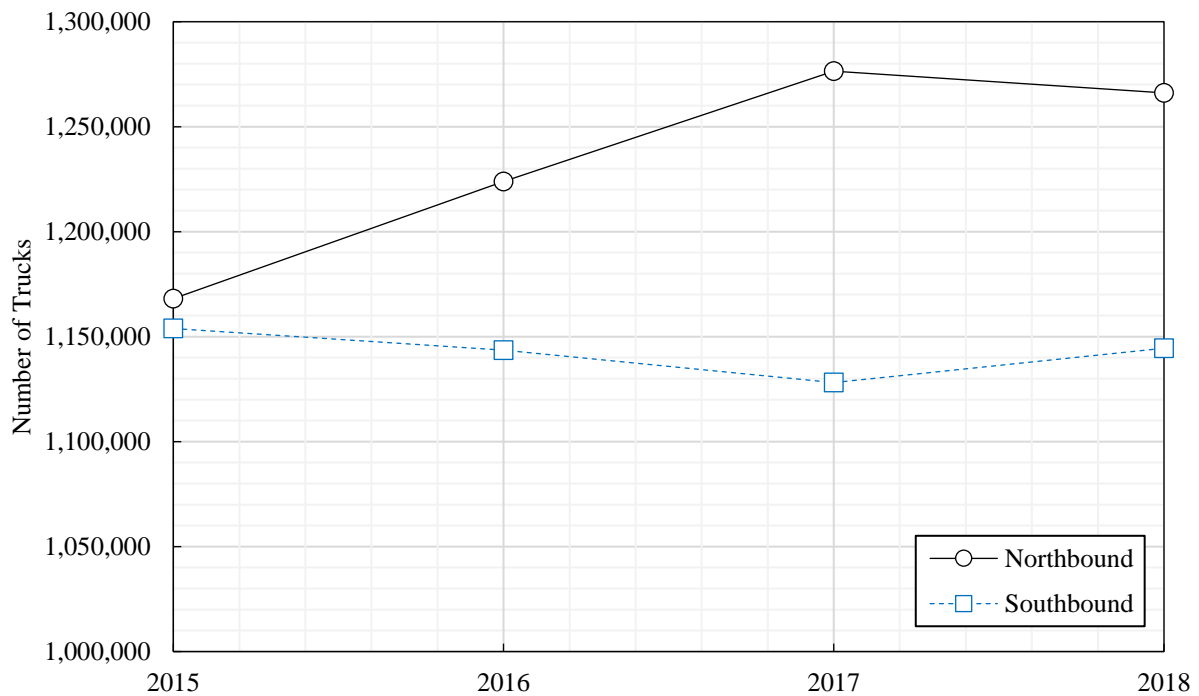


Figure 4: Directional Volume Trends by Year at Ashland WIM Stations for All Trucks

Woodburn WIM Stations

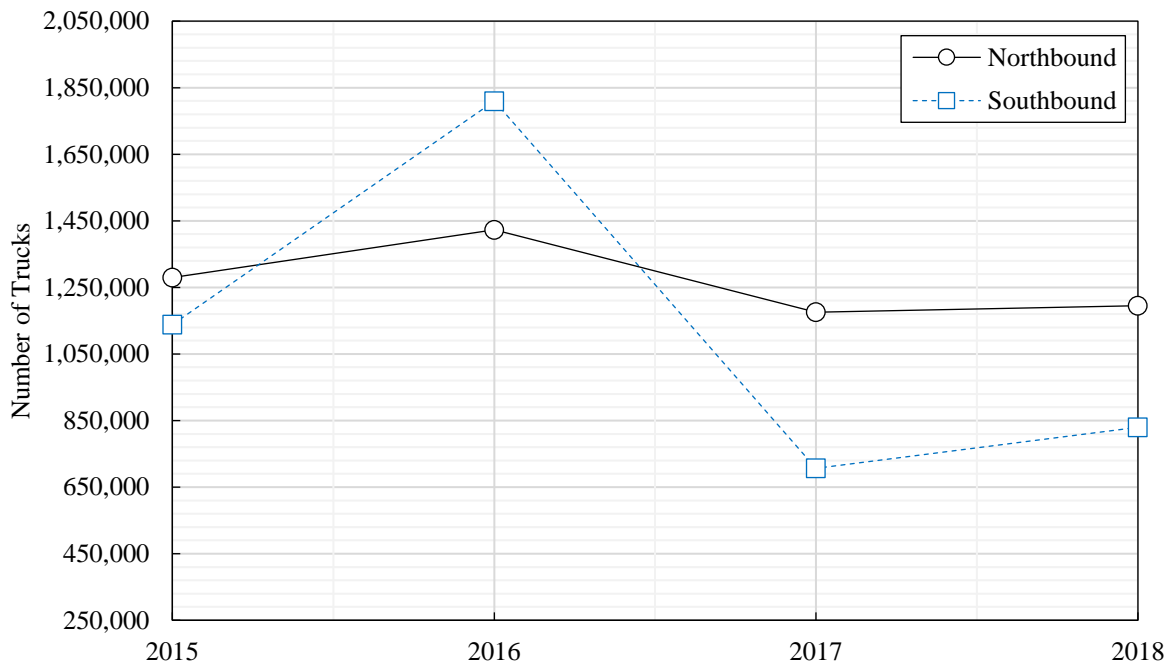


Figure 5: Directional Volume Trends by Year at Woodburn WIM Stations for ODOT Class 03 to ODOT Class 10 Trucks

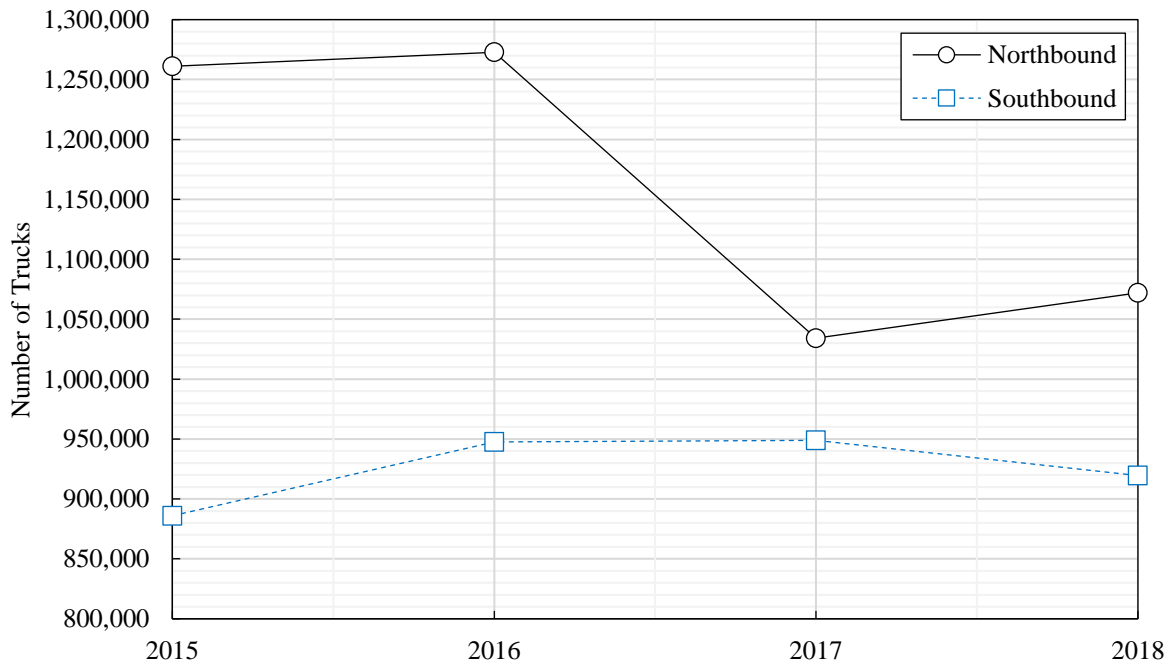


Figure 6: Directional Volume Trends by Year at Woodburn WIM Stations for ODOT Class 11 Trucks

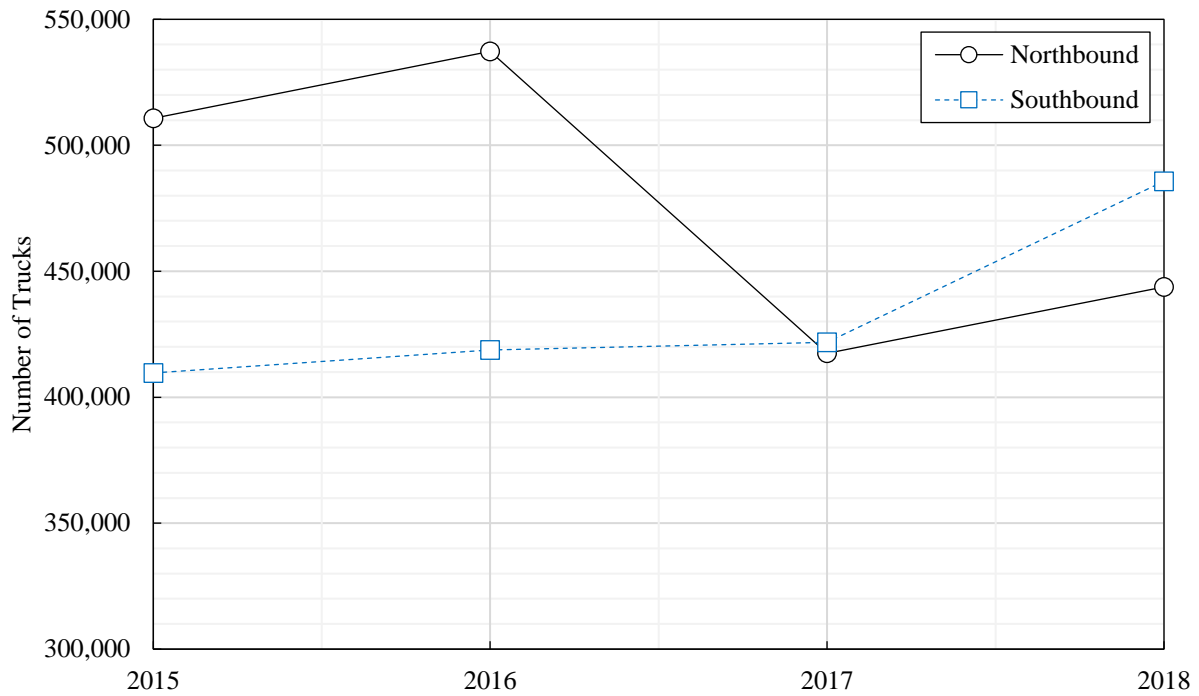


Figure 7: Directional Volume Trends at by Year at Woodburn WIM Stations for ODOT Class 12 to ODOT Class 19 Trucks

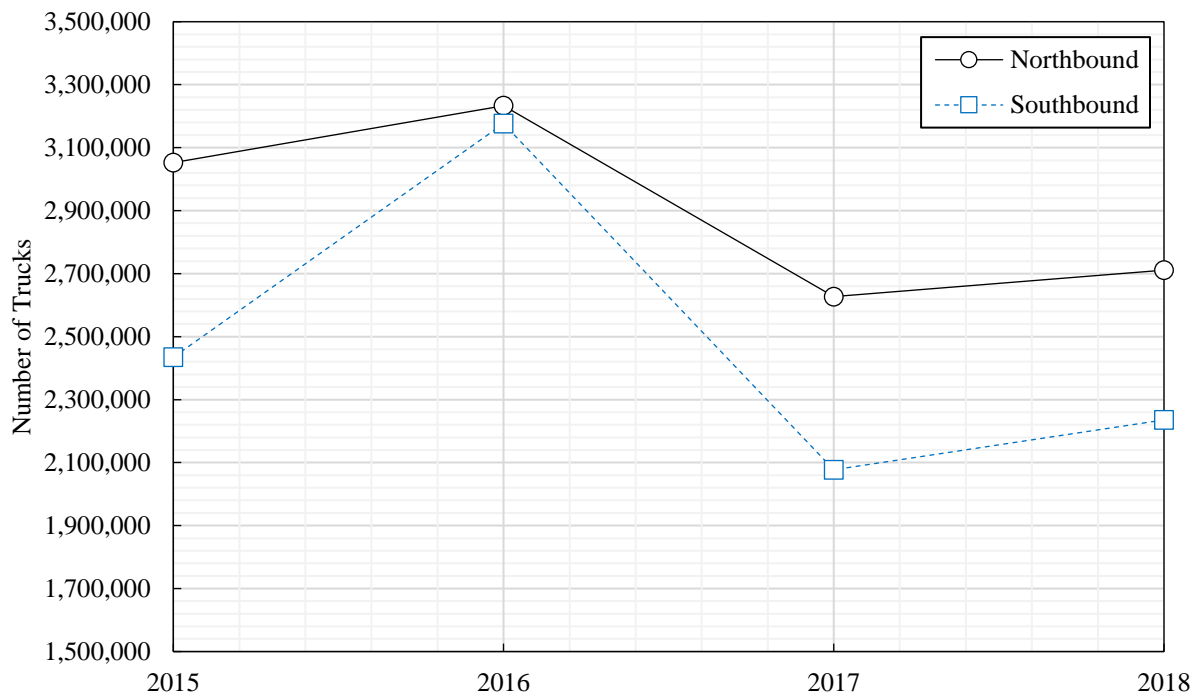


Figure 8: Directional Volume Trends by Year at Woodburn WIM Stations for All Trucks

Cascade Locks (EB) and Wyeth (WB) WIM Stations

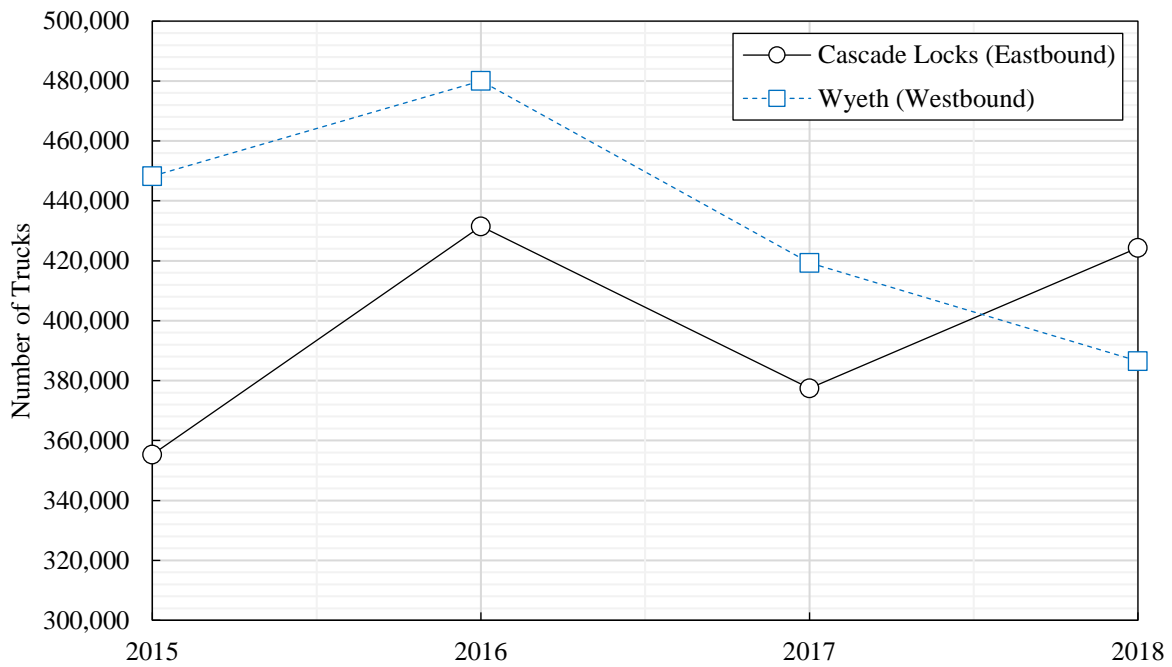


Figure 9: Directional Volume Trends by Year at Cascade Locks (EB) and Wyeth (WB) WIM Stations for ODOT Class 03 to ODOT Class 10 Trucks

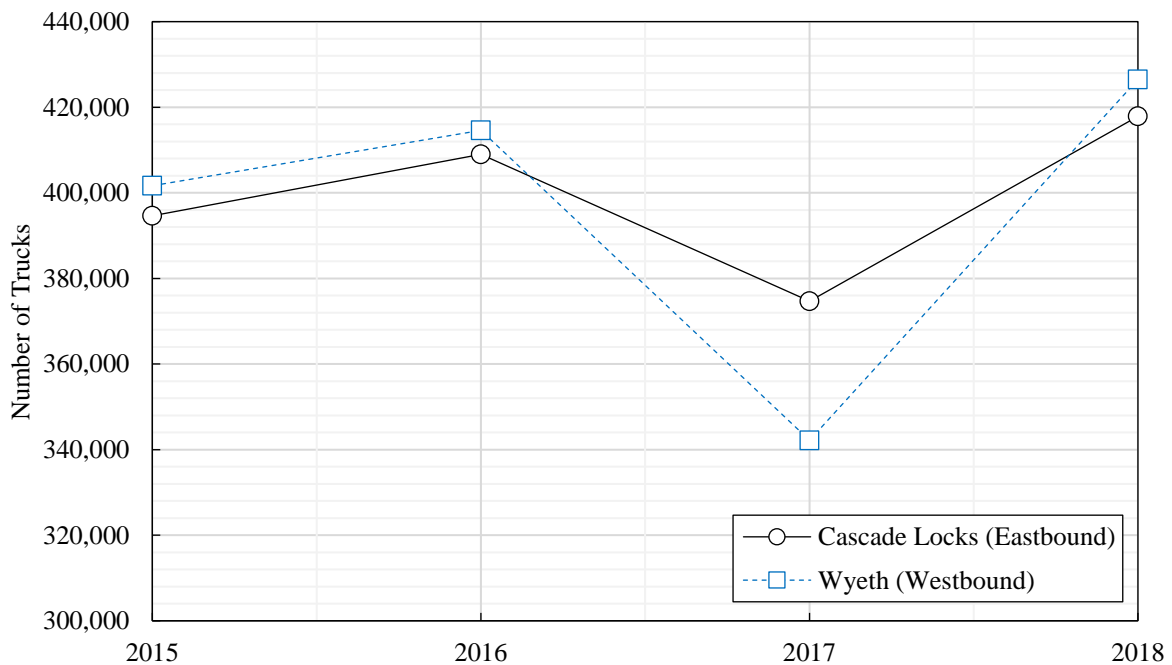


Figure 10: Directional Volume Trends by Year at Cascade Locks (EB) and Wyeth (WB) WIM Stations for ODOT Class 11 Trucks

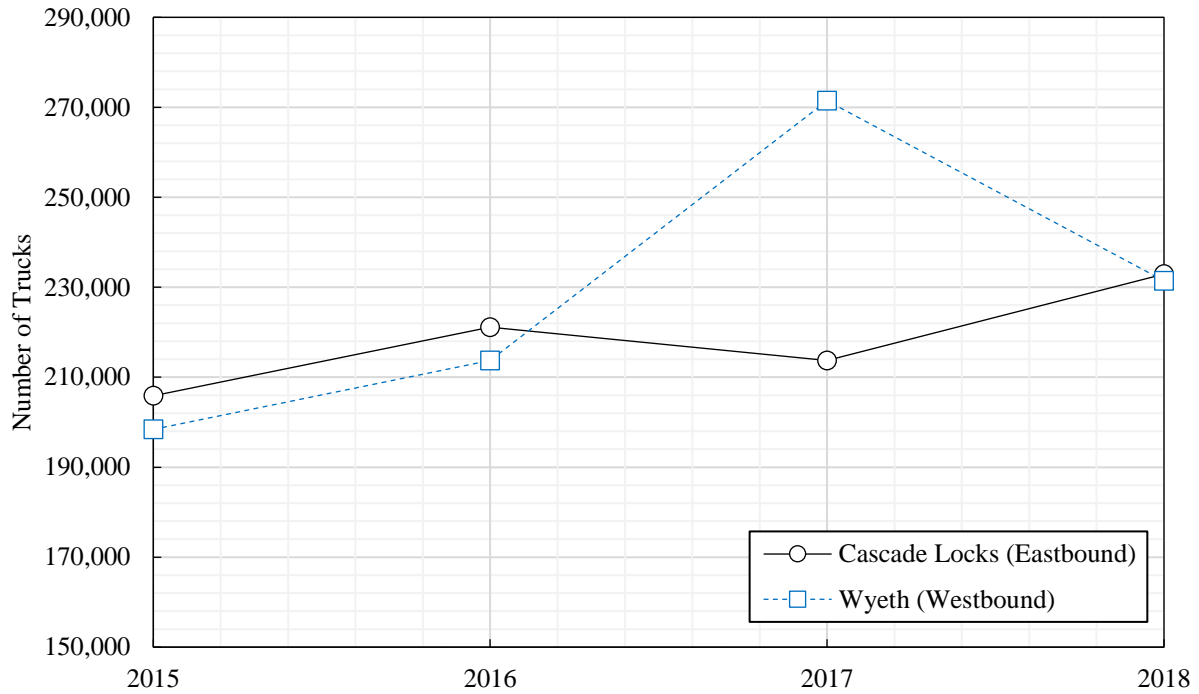


Figure 11: Directional Volume Trends by Year at Cascade Locks (EB) and Wyeth (WB) WIM Stations for ODOT Class 12 to ODOT Class 19 Trucks

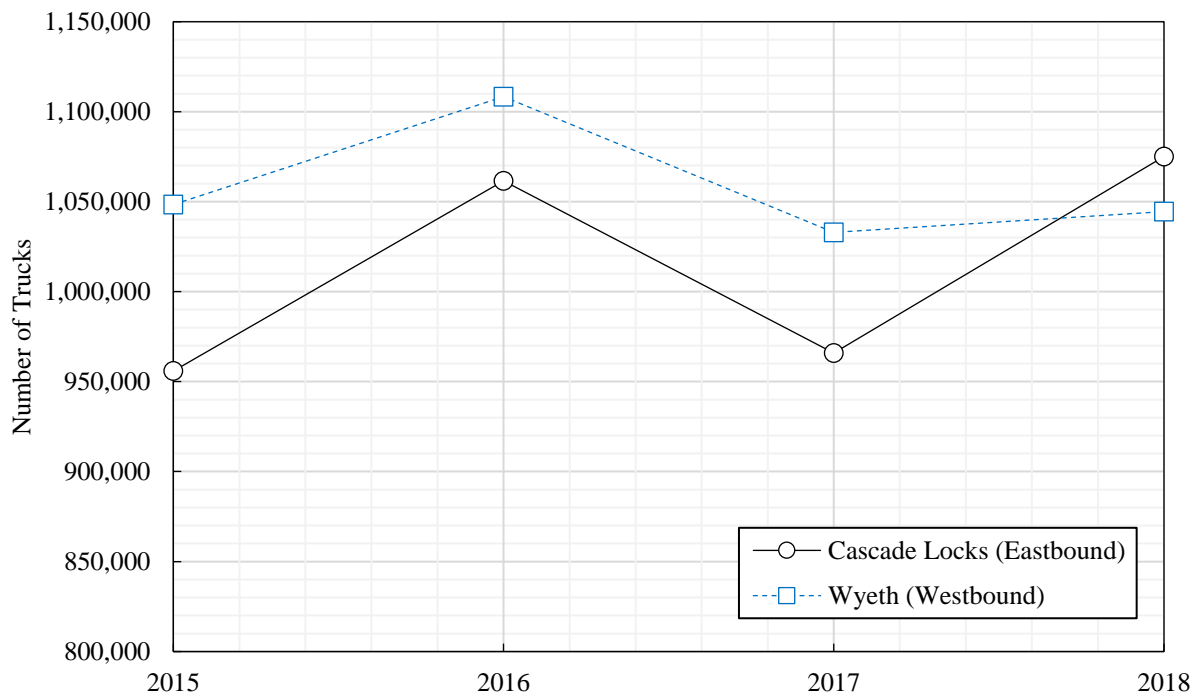


Figure 12: Directional Volume Trends by Year at Cascade Locks (EB) and Wyeth (WB) WIM Stations for All Trucks

Olds Ferry (EB) and Farewell Bend (WB) WIM Stations

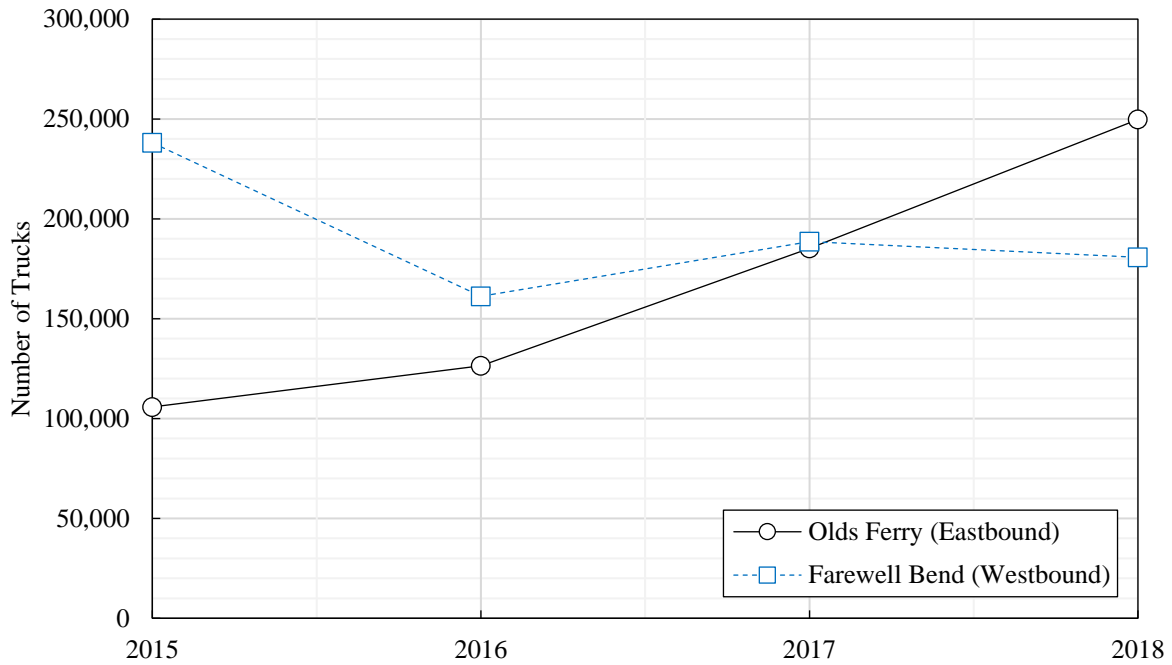


Figure 13: Directional Volume Trends by Year at Olds Ferry (EB) and Farewell Bend (WB) WIM Stations for ODOT Class 03 to ODOT Class 10 Trucks

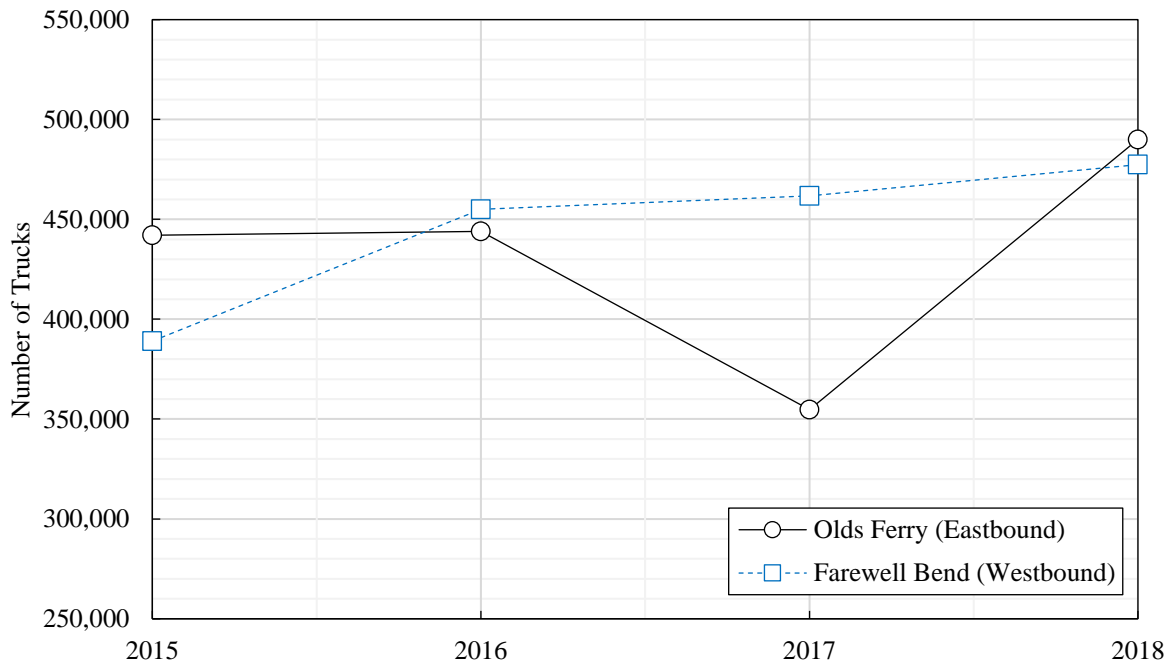


Figure 14: Directional Volume Trends by Year at Olds Ferry (EB) and Farewell Bend (WB) WIM Stations for ODOT Class 11 Trucks

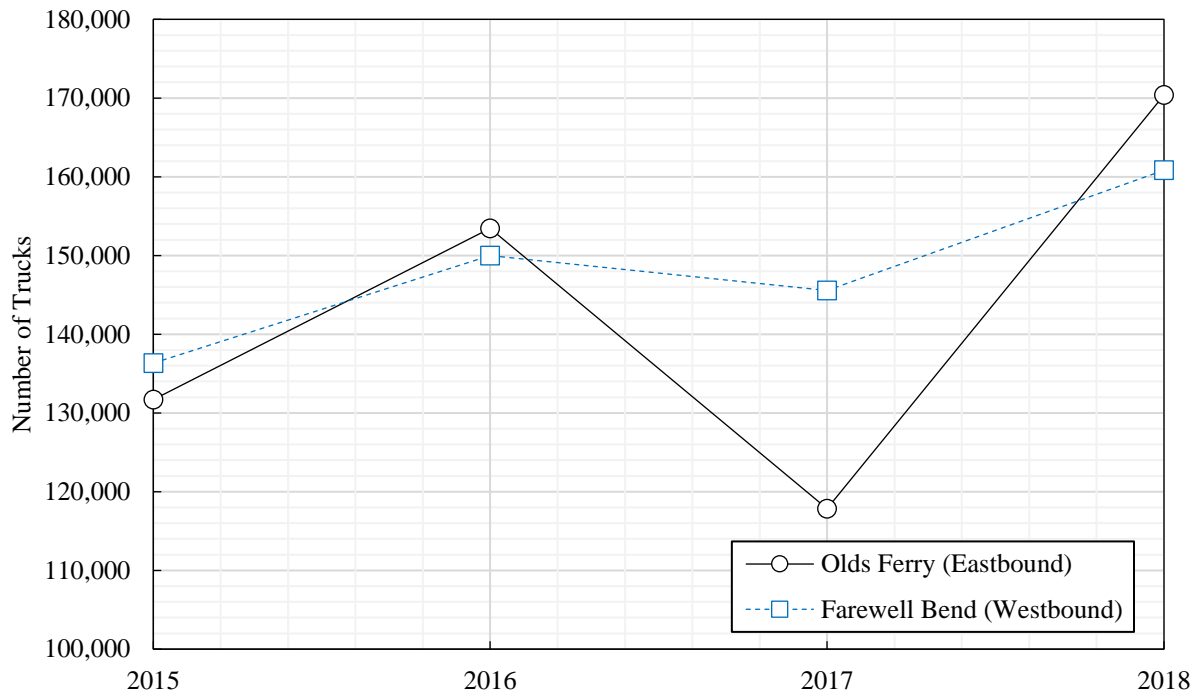


Figure 15: Directional Volume Trends at Olds Ferry (EB) and Farewell Bend (WB) WIM Stations for ODOT Class 12 to ODOT Class 19 Trucks

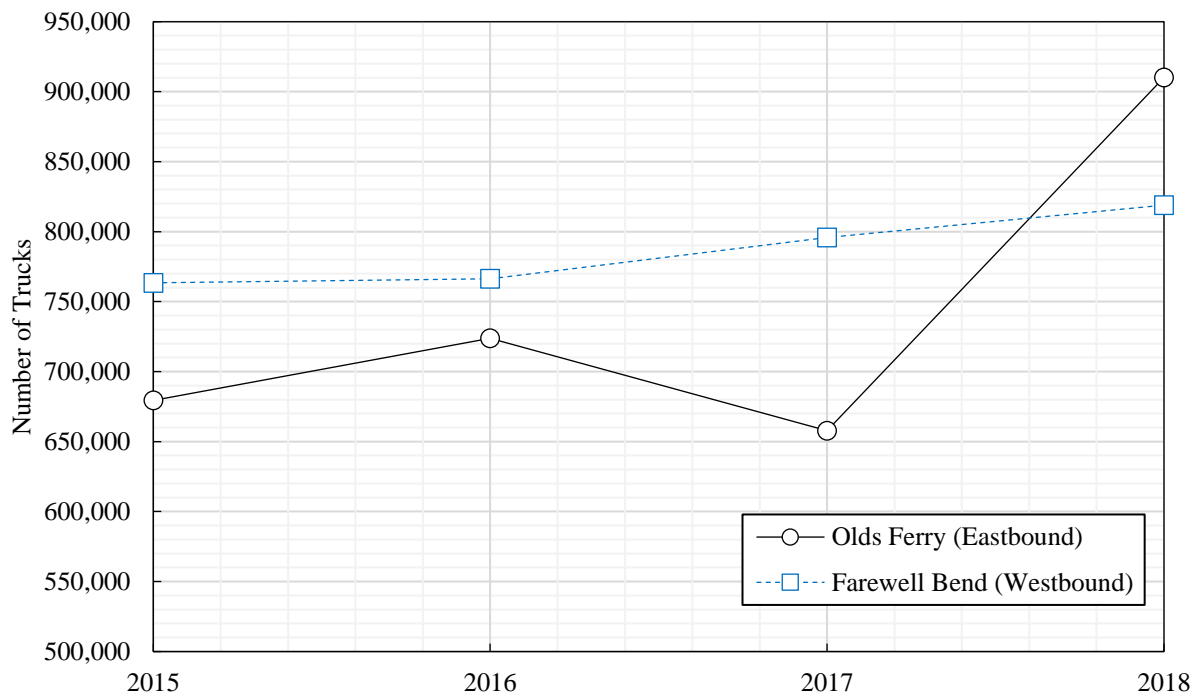


Figure 16: Directional Volume Trends by Year at Olds Ferry (EB) and Farewell Bend (WB) WIM Stations for All Trucks

Klamath Falls WIM Stations

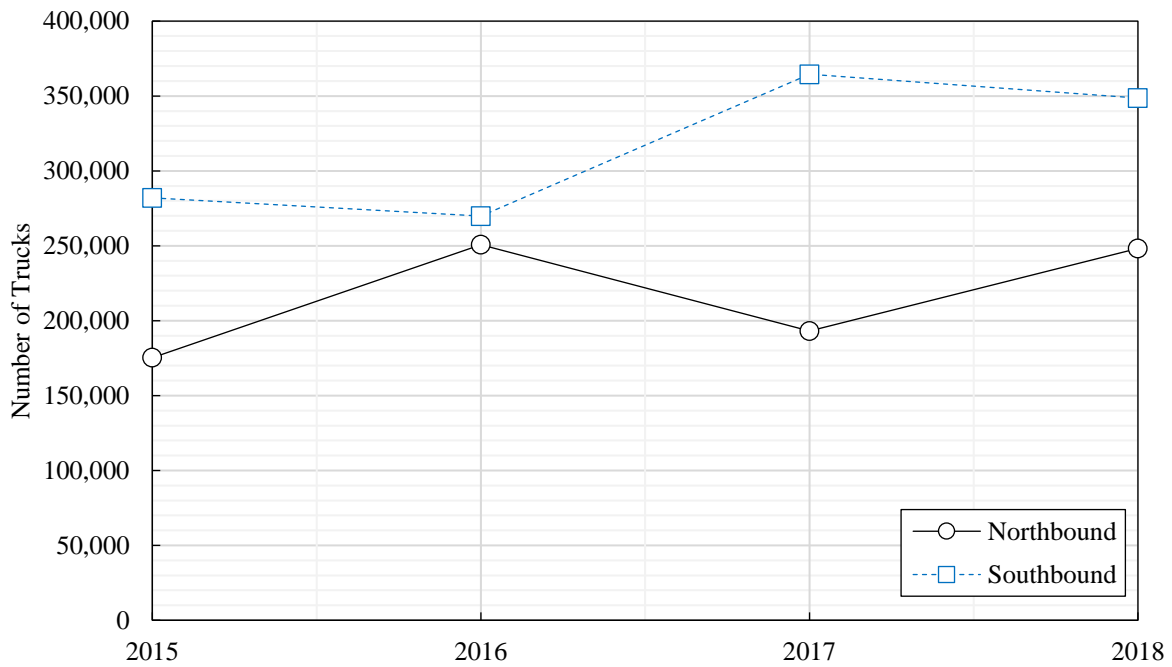


Figure 17: Directional Volume Trends by Year at Klamath Falls WIM Stations for ODOT Class 03 to ODOT Class 10 Trucks

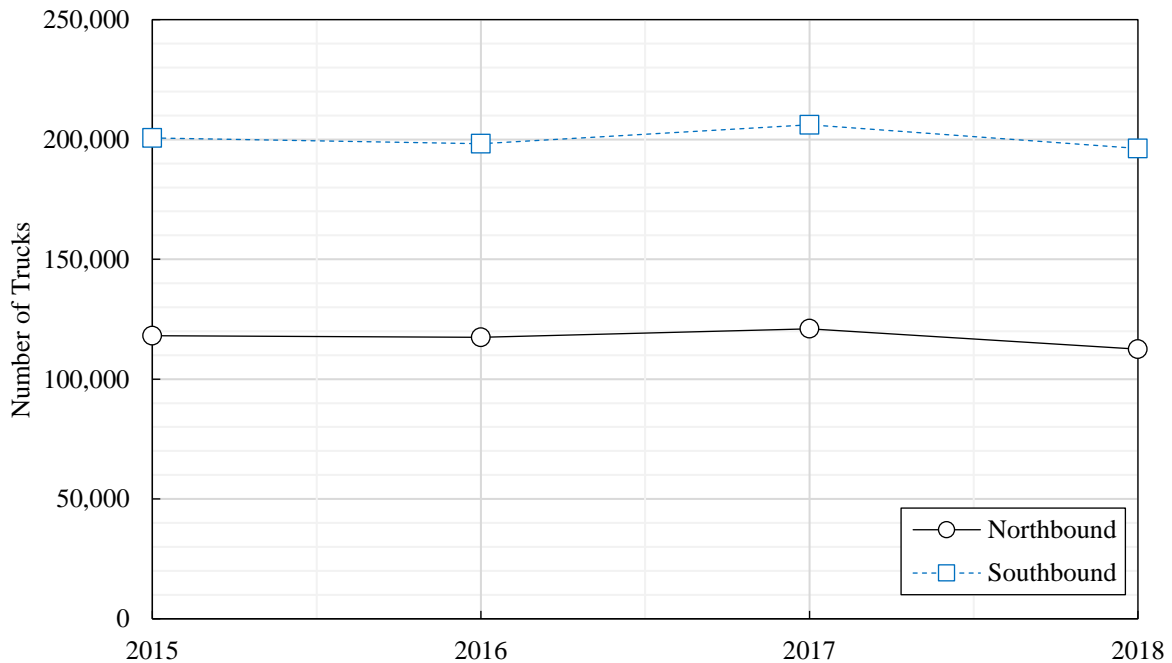


Figure 18: Directional Volume Trends by Year at Klamath Falls WIM Stations for ODOT Class 11 Trucks

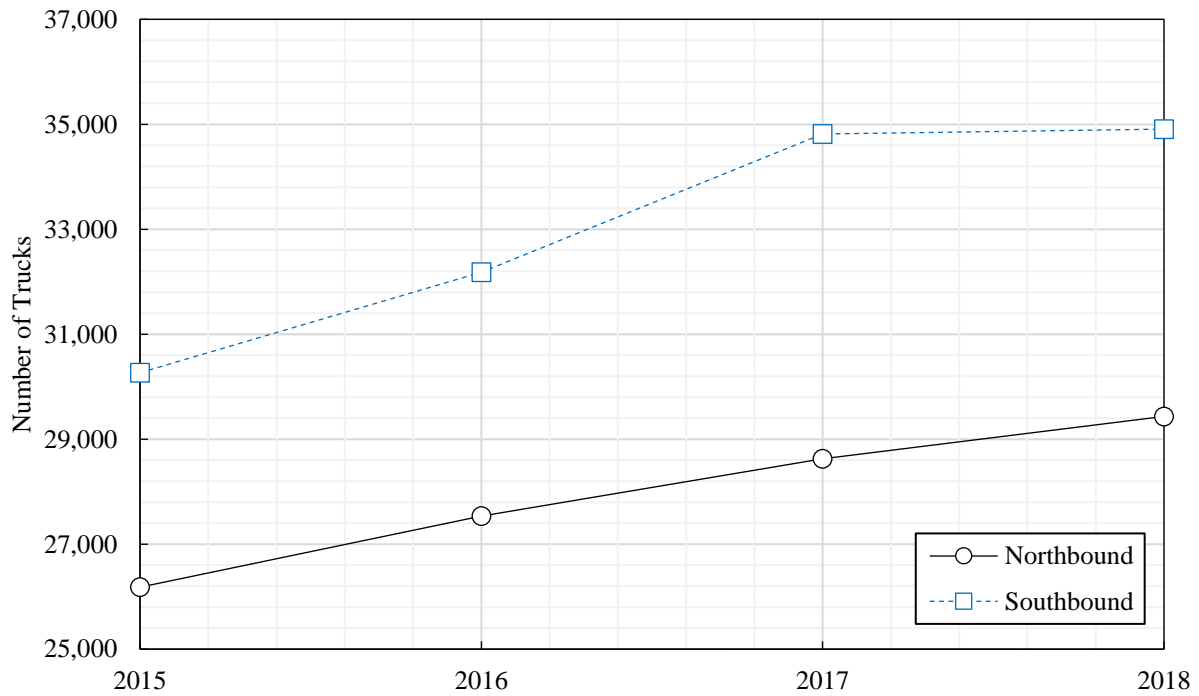


Figure 19: Directional Volume Trends by Year at Klamath Falls WIM Stations for ODOT Class 12 to ODOT Class 19 Trucks

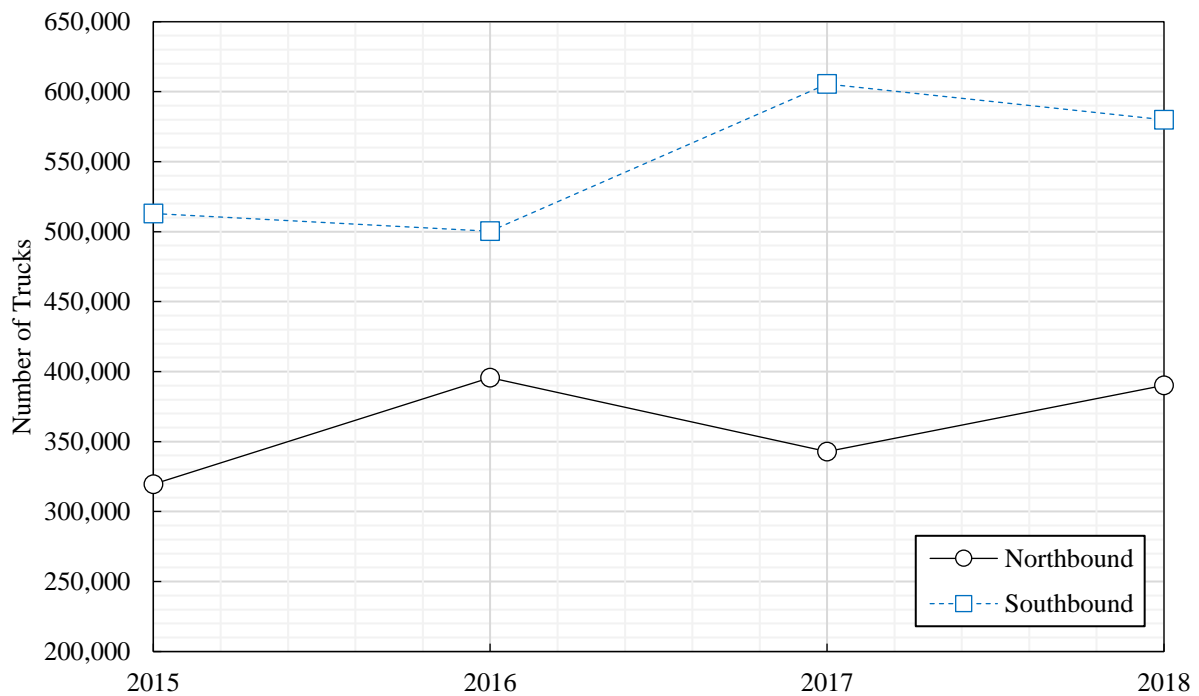


Figure 20: Directional Volume Trends by Year at Klamath Falls WIM Stations for All Trucks

Weight Trends

The following plots show the directional weight trends by WIM station for ODOT Class 03 to ODOT Class 10 trucks, ODOT Class 11 trucks, ODOT Class 12 to ODOT Class 19 trucks, and all trucks (ODOT Class 03 to ODOT Class 19, excluding Class 04 and Class 07). The weight trends are the average monthly observed weight (truck weight and cargo weight). The average monthly observed weight was determined by summing the total weight for a given year of WIM data and taking the average.

Plots begin on the following page.

Ashland WIM Stations

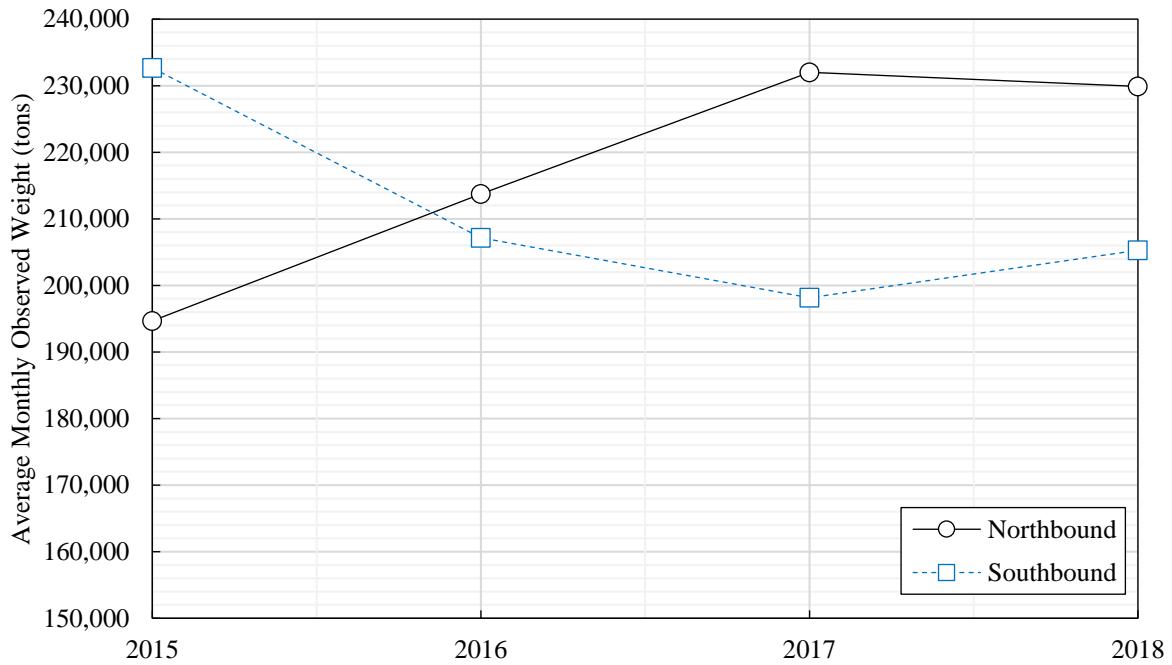


Figure 21: Directional Weight Trends by Year at Ashland WIM Stations for ODOT Class 03 to ODOT Class 10 Trucks

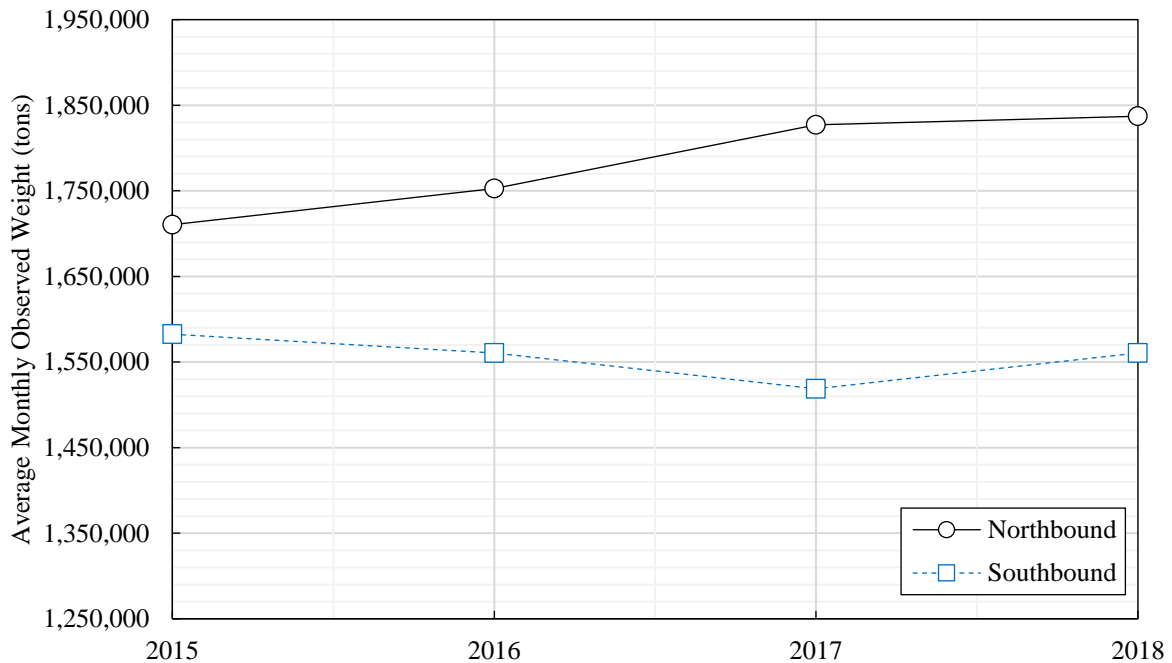


Figure 22: Directional Weight Trends by Year at Ashland WIM Stations for ODOT Class 11 Trucks

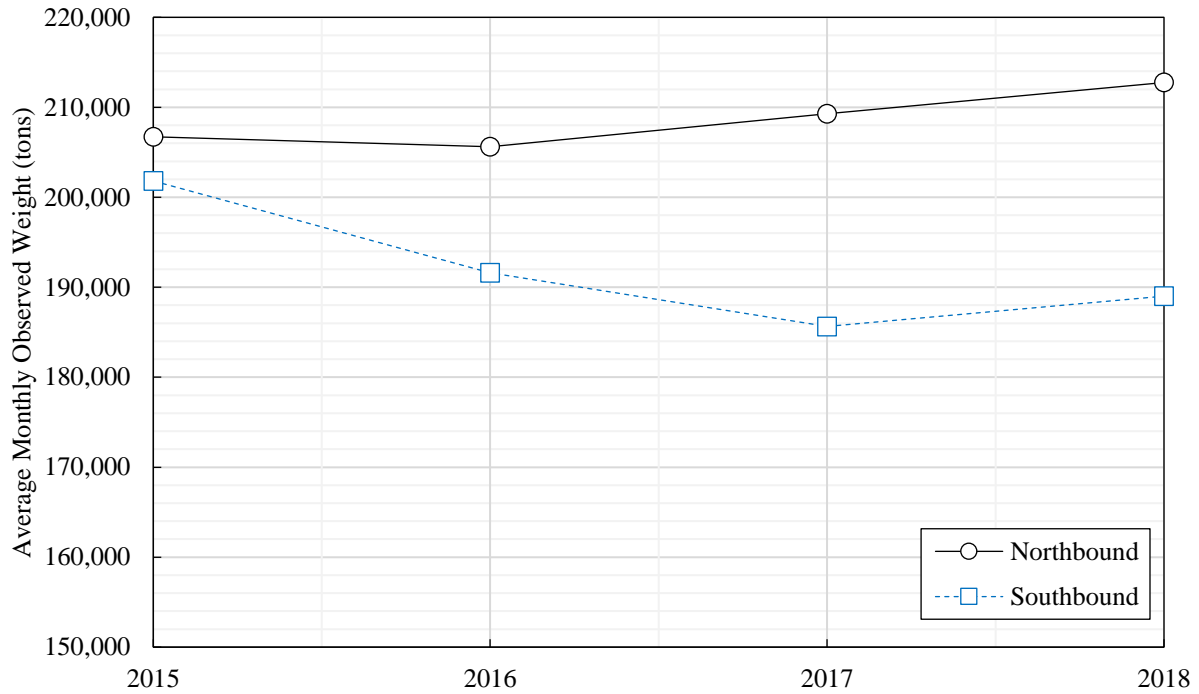


Figure 23: Directional Weight Trends by Year at Ashland WIM Stations for ODOT Class 12 to ODOT Class 19 Trucks

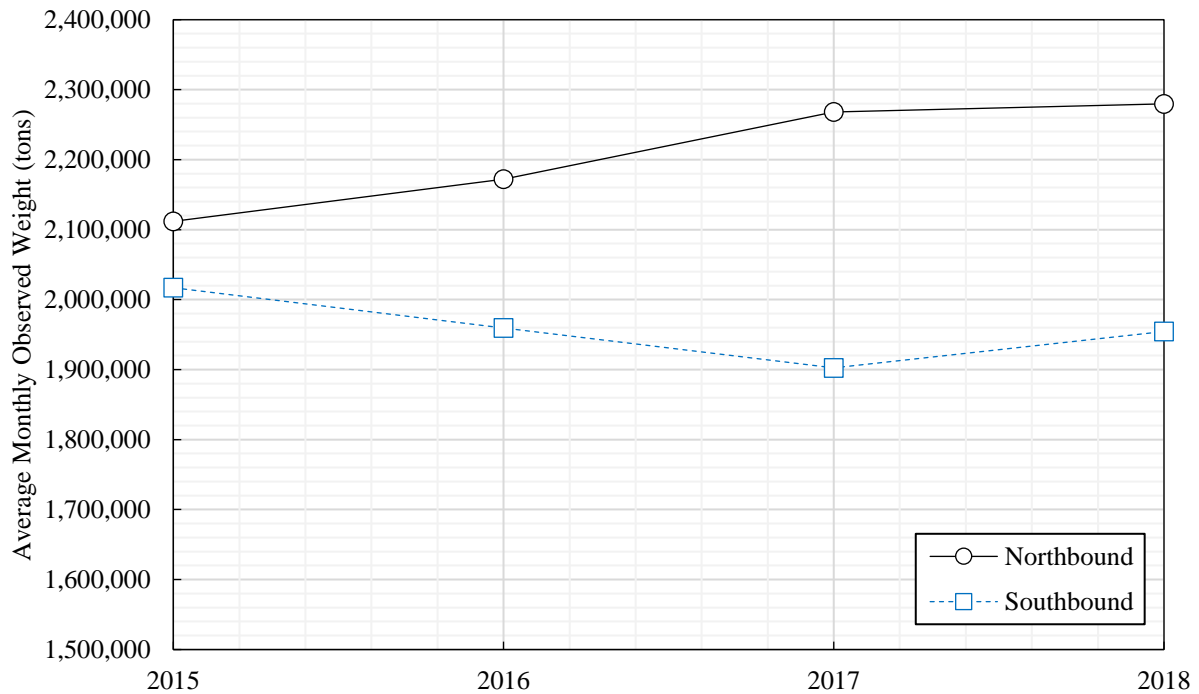


Figure 24: Directional Weight Trends by Year at Ashland WIM Stations for All Trucks

Woodburn WIM Stations

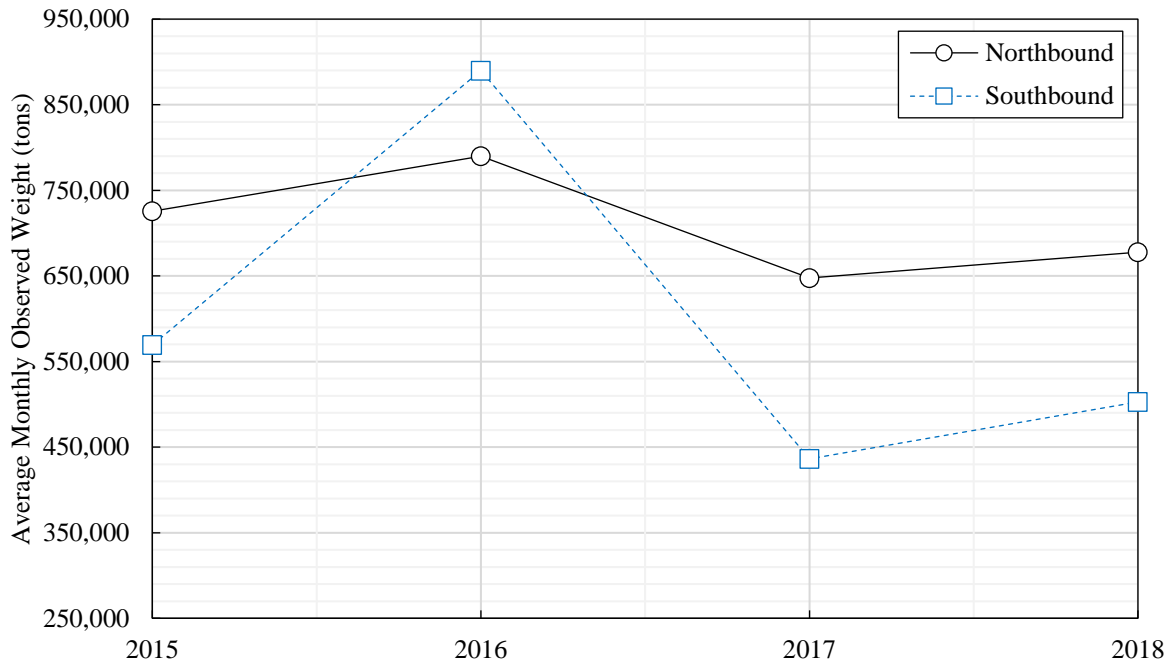


Figure 25: Directional Weight Trends by Year at Woodburn WIM Stations for ODOT Class 03 to ODOT Class 10 Trucks

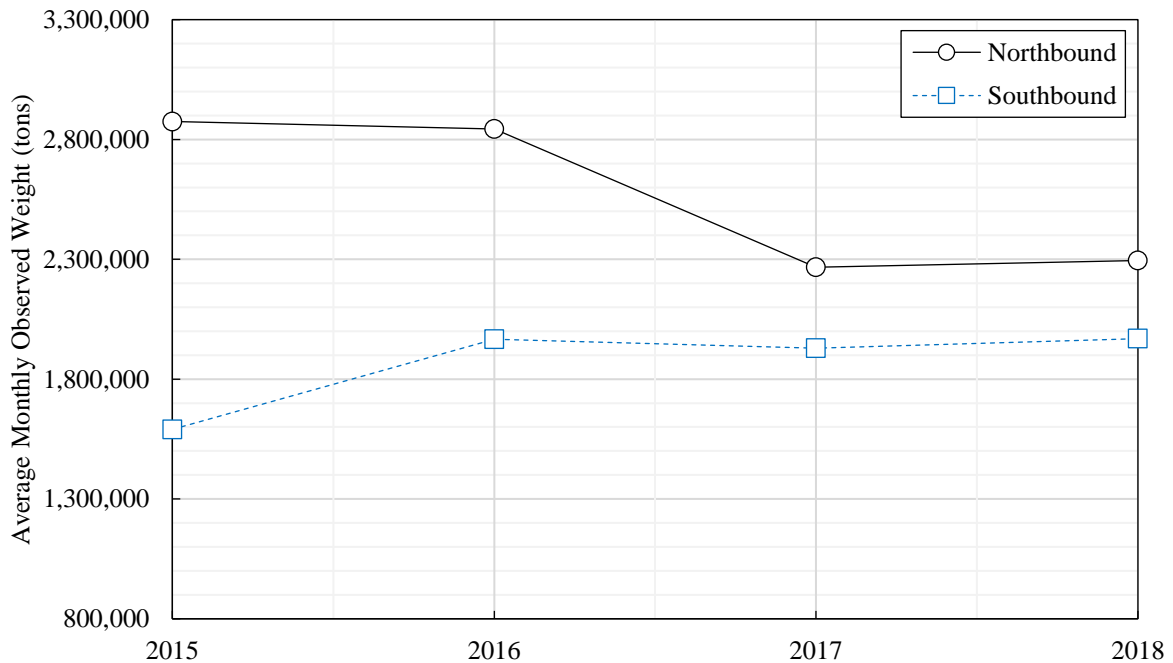


Figure 26: Directional Weight Trends by Year at Woodburn WIM Stations for ODOT Class 11 Trucks

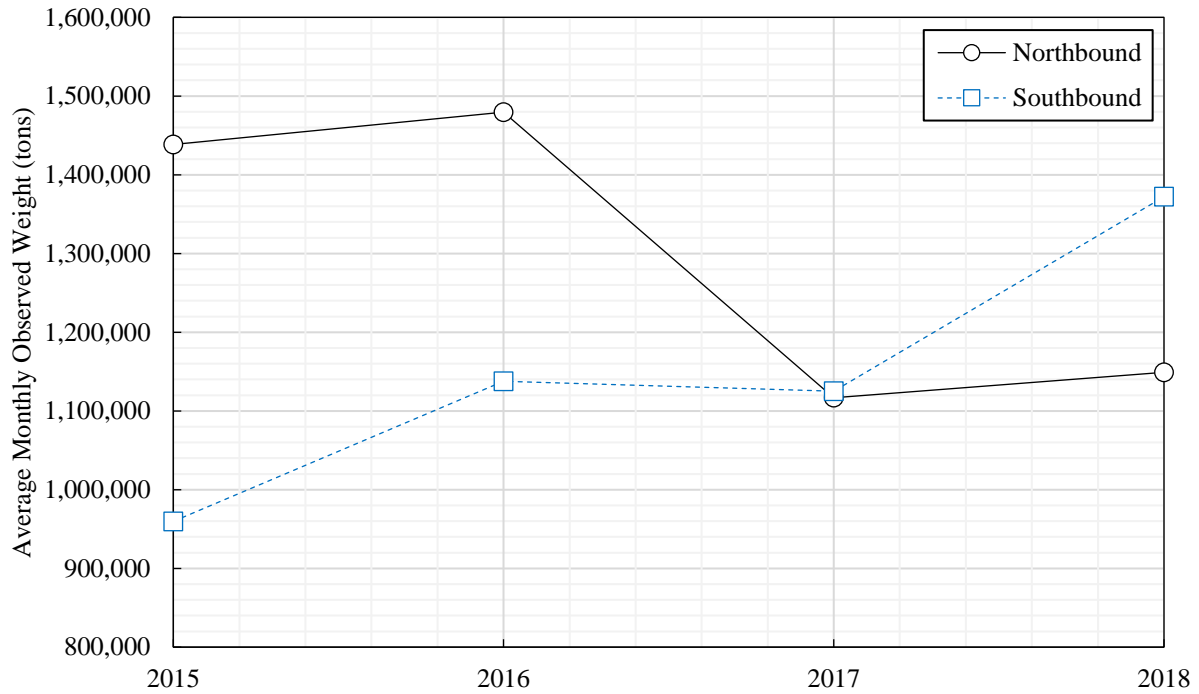


Figure 27: Directional Weight Trends at by Year at Woodburn WIM Stations for ODOT Class 12 to ODOT Class 19 Trucks

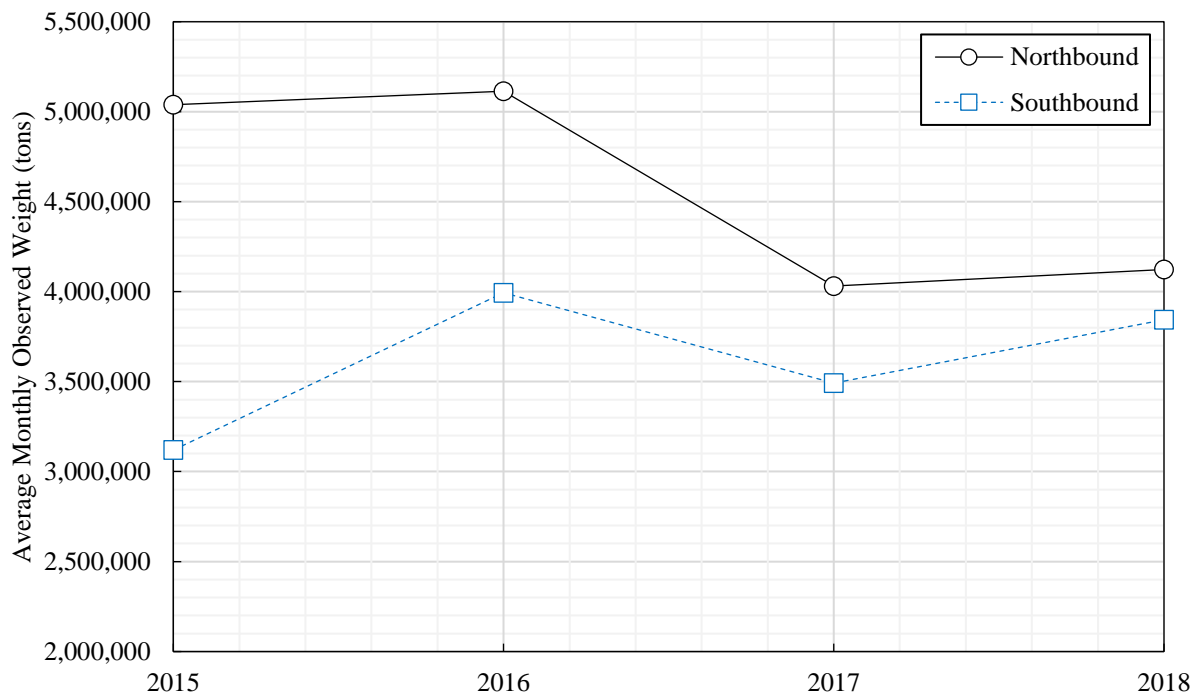


Figure 28: Directional Weight Trends by Year at Woodburn WIM Stations for All Trucks

Cascade Locks (EB) and Wyeth (WB) WIM Stations

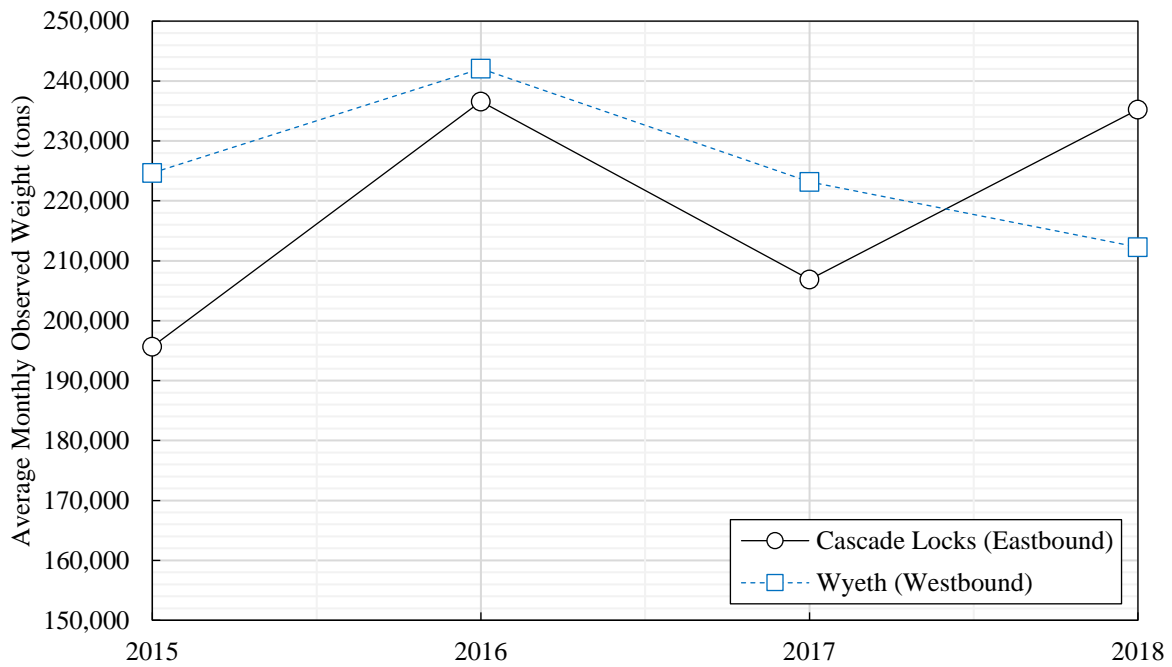


Figure 29: Directional Weight Trends by Year at Cascade Locks (EB) and Wyeth (WB) WIM Stations for ODOT Class 03 to ODOT Class 10 Trucks

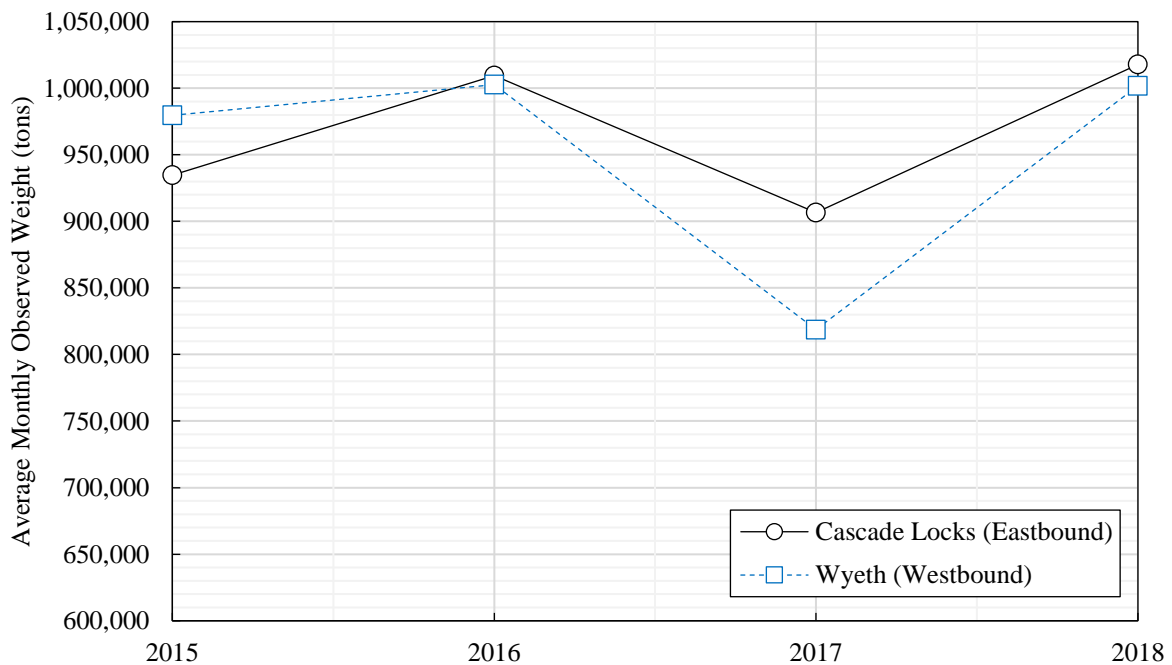


Figure 30: Directional Weight Trends by Year at Cascade Locks (EB) and Wyeth (WB) WIM Stations for ODOT Class 11 Trucks

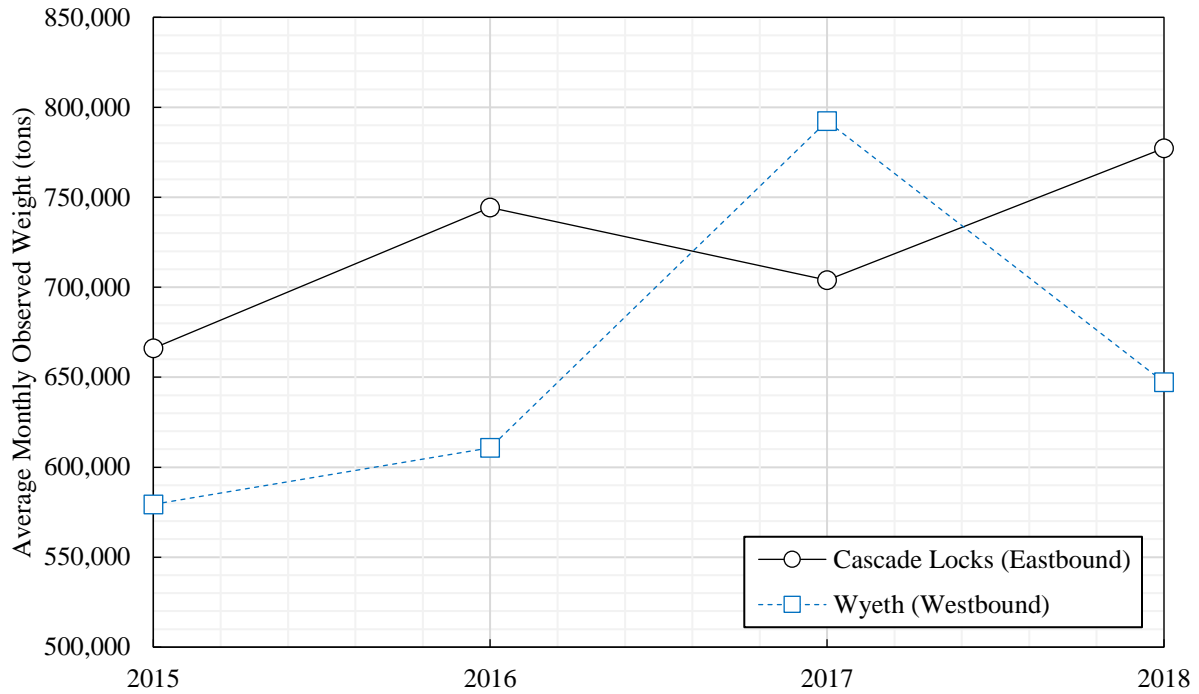


Figure 31: Directional Weight Trends by Year at Cascade Locks (EB) and Wyeth (WB) WIM Stations for ODOT Class 12 to ODOT Class 19 Trucks

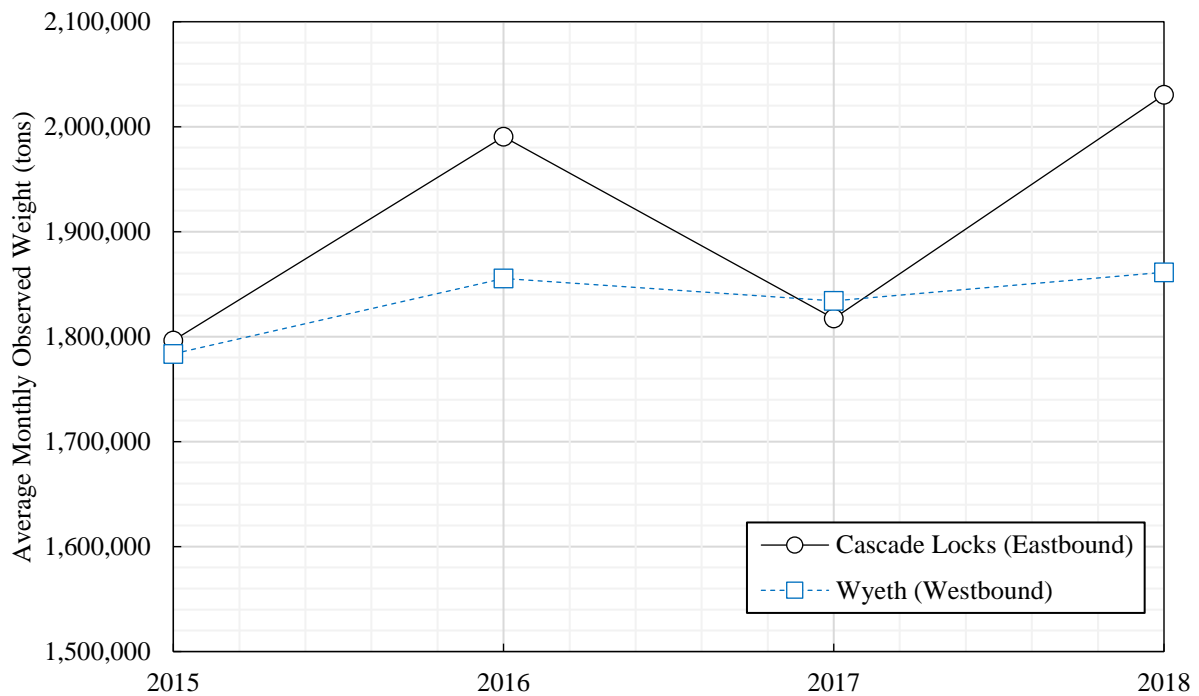


Figure 32: Directional Weight Trends by Year at Cascade Locks (EB) and Wyeth (WB) WIM Stations for All Trucks

Olds Ferry (EB) and Farewell Bend (WB) WIM Stations

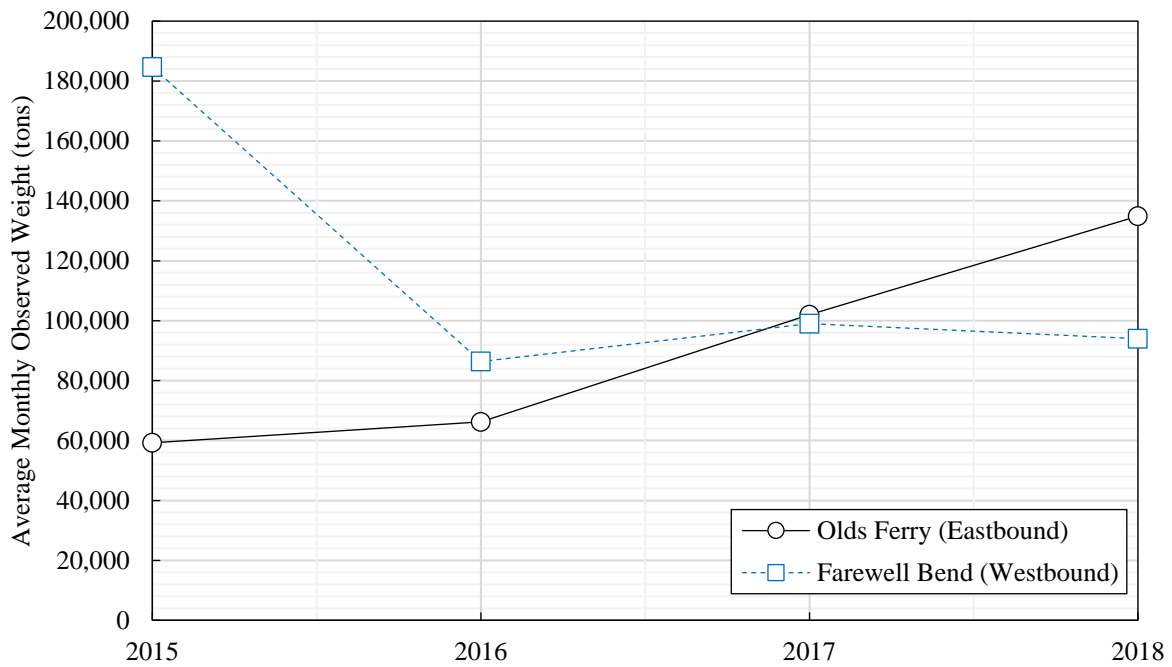


Figure 33: Directional Weight Trends by Year at Olds Ferry (EB) and Farewell Bend (WB) WIM Stations for ODOT Class 03 to ODOT Class 10 Trucks

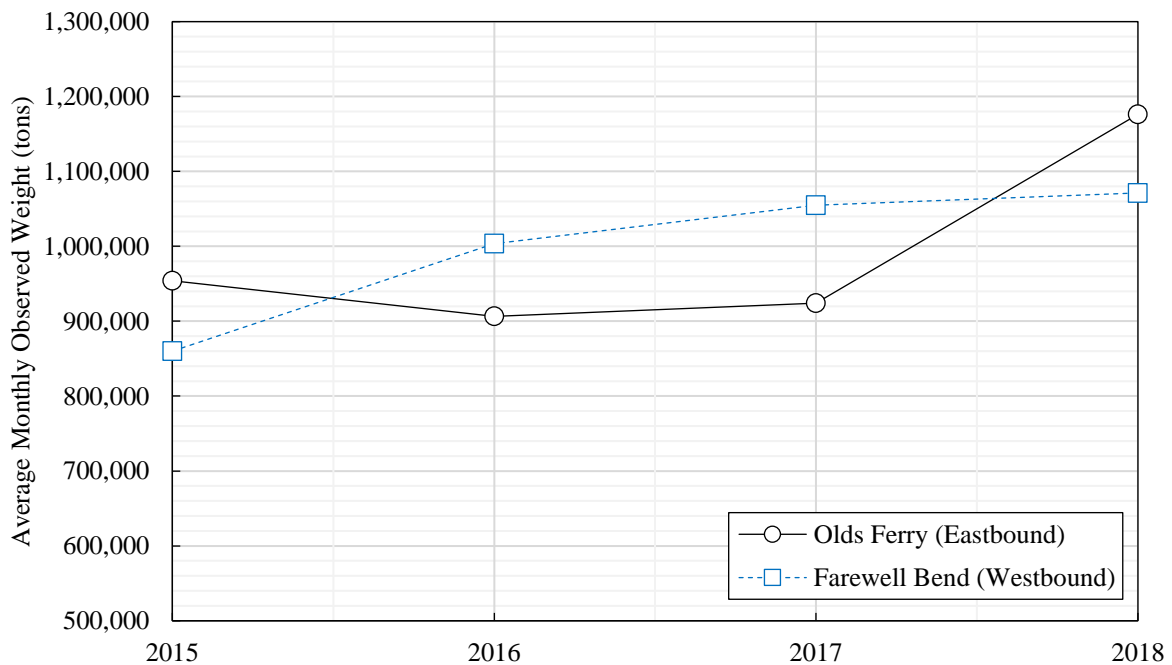


Figure 34: Directional Weight Trends by Year at Olds Ferry (EB) and Farewell Bend (WB) WIM Stations for ODOT Class 11 Trucks

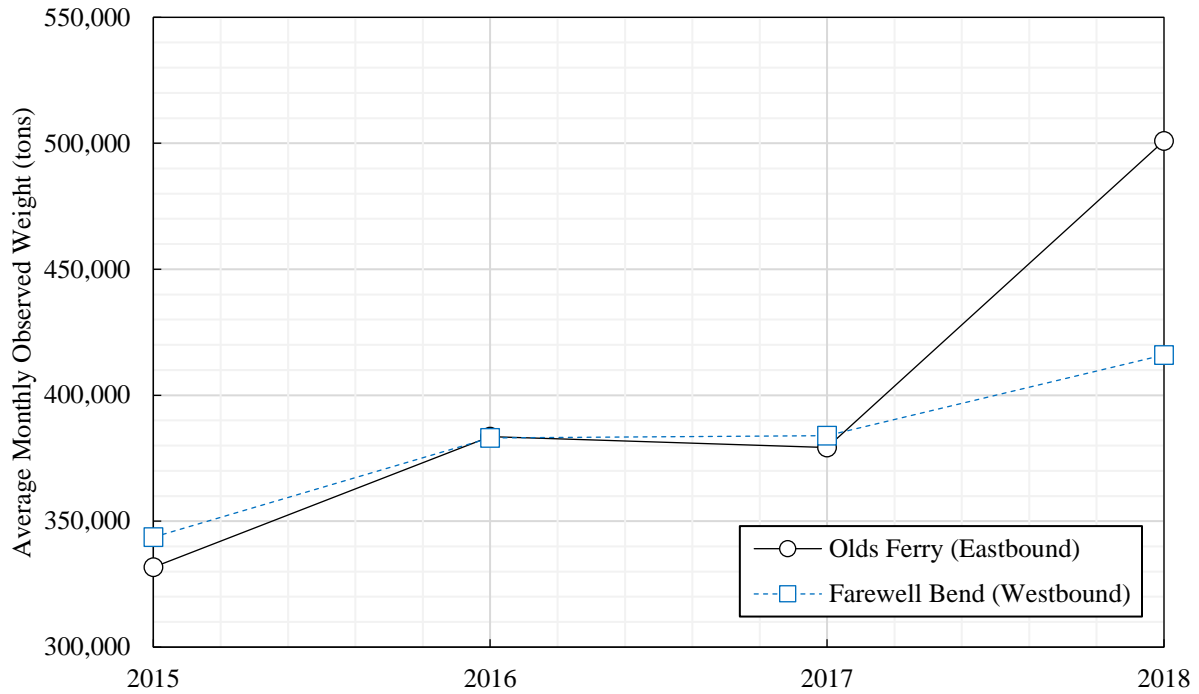


Figure 35: Directional Weight Trends at Olds Ferry (EB) and Farewell Bend (WB) WIM Stations for ODOT Class 12 to ODOT Class 19 Trucks

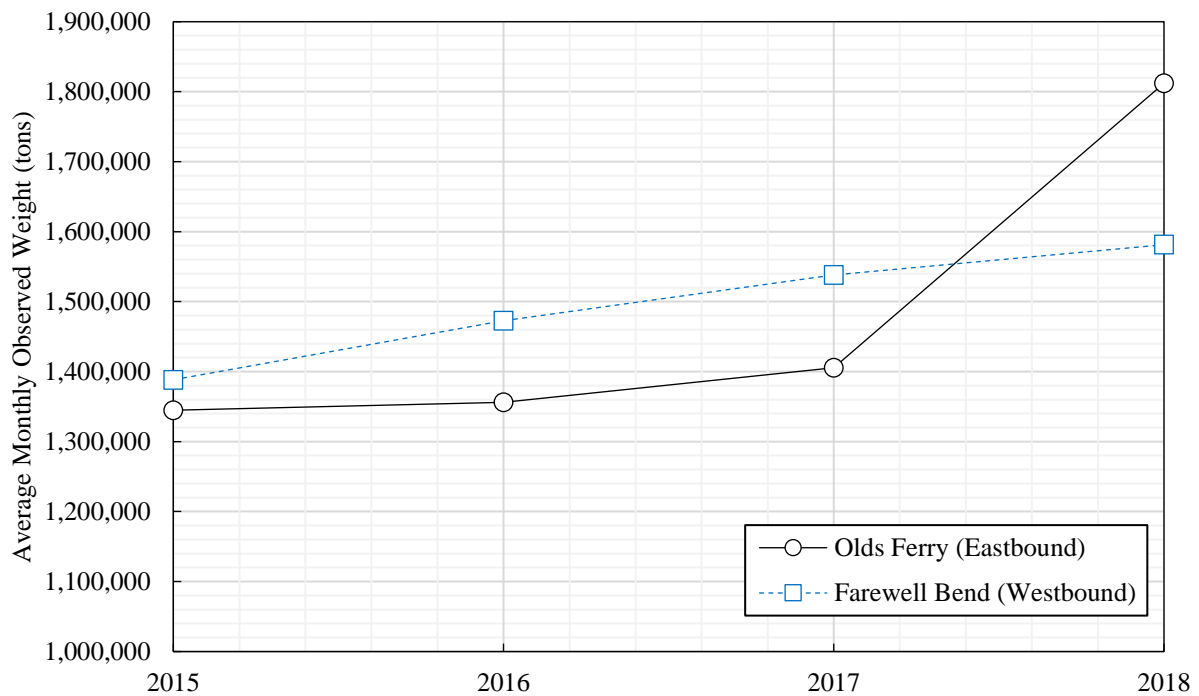


Figure 36: Directional Weight Trends by Year at Olds Ferry (EB) and Farewell Bend (WB) WIM Stations for All Trucks

Klamath Falls WIM Stations

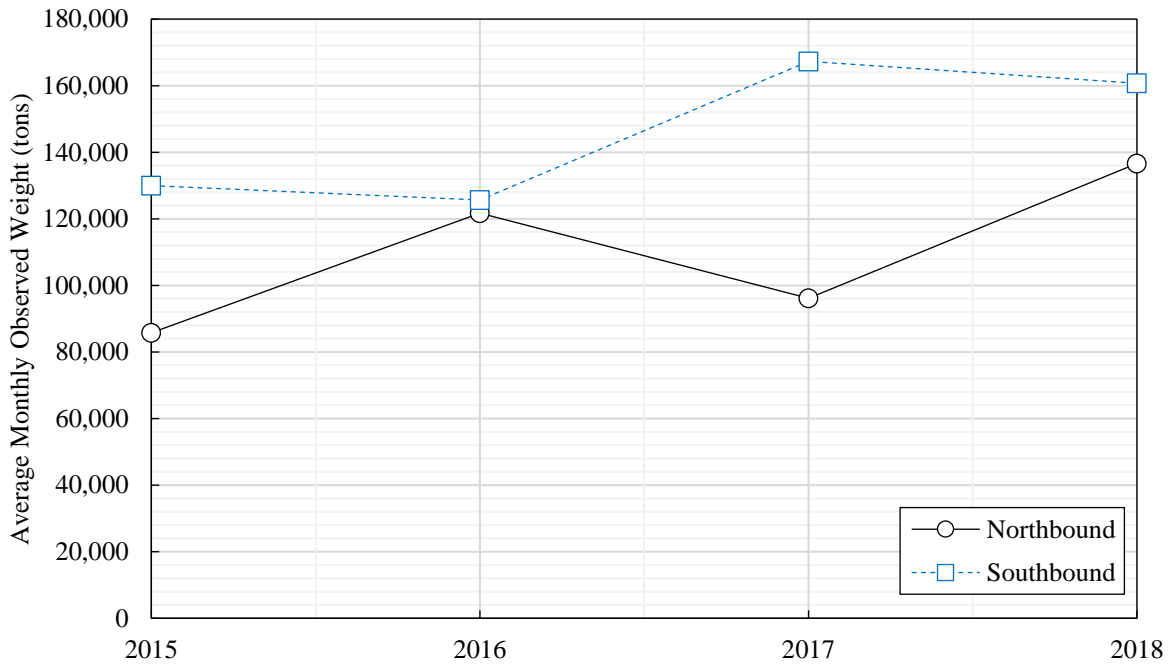


Figure 37: Directional Weight Trends by Year at Klamath Falls WIM Stations for ODOT Class 03 to ODOT Class 10 Trucks

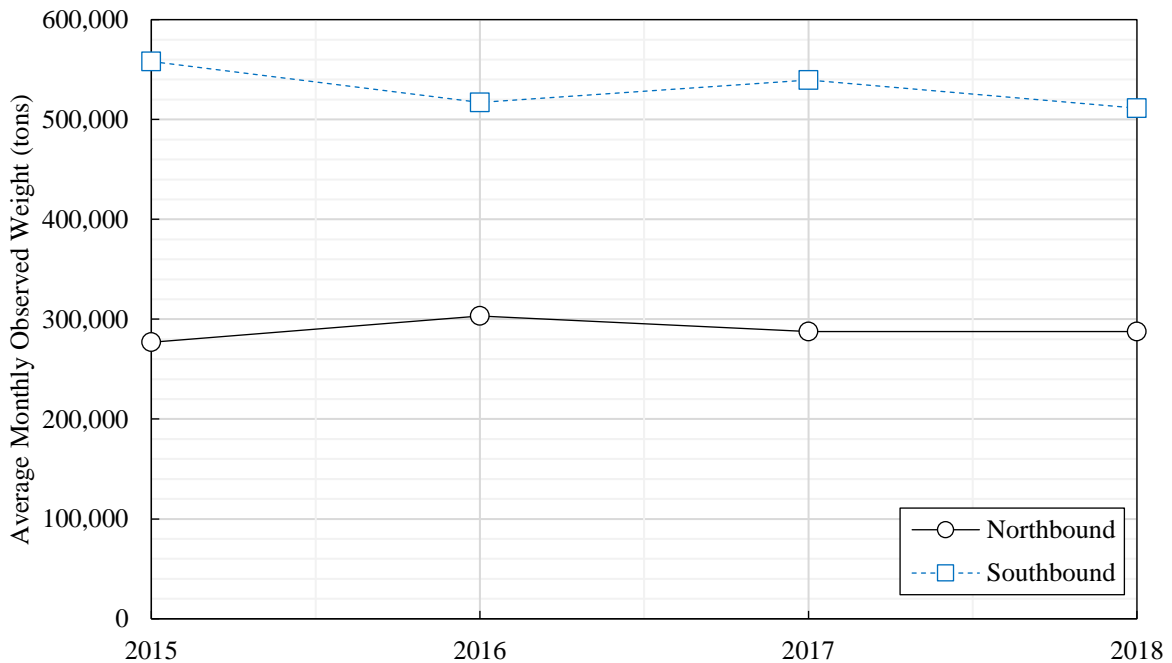


Figure 38: Directional Weight Trends by Year at Klamath Falls WIM Stations for ODOT Class 11 Trucks

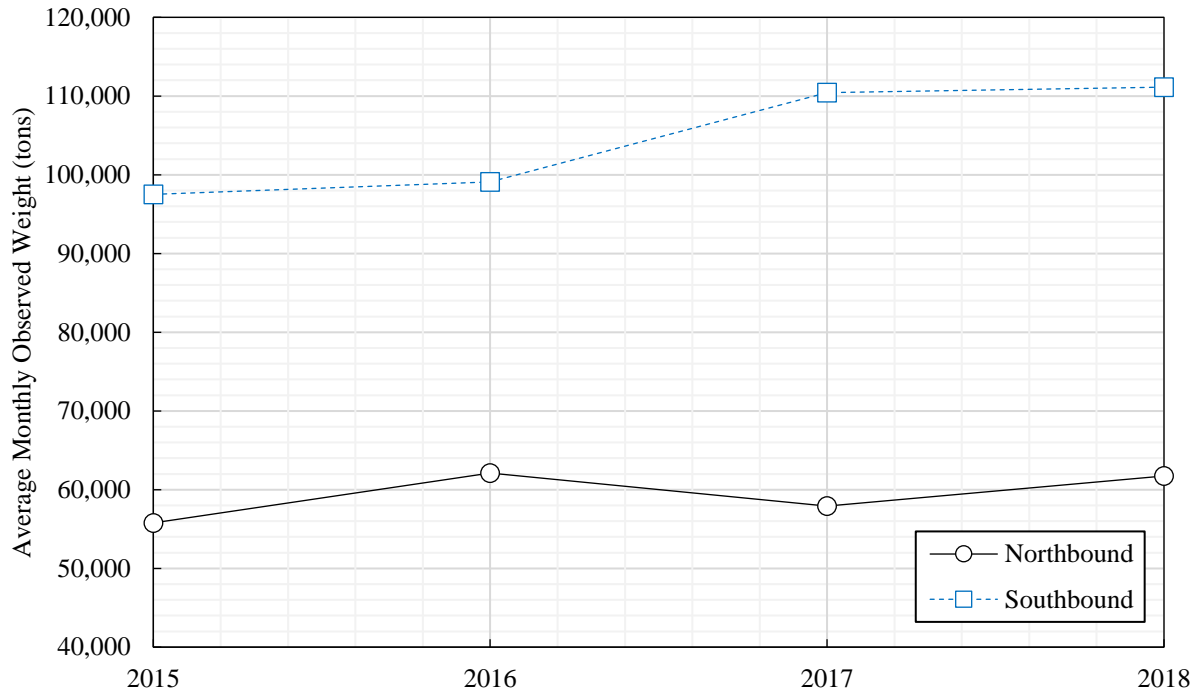


Figure 39: Directional Weight Trends by Year at Klamath Falls WIM Stations for ODOT Class 12 to ODOT Class 19 Trucks

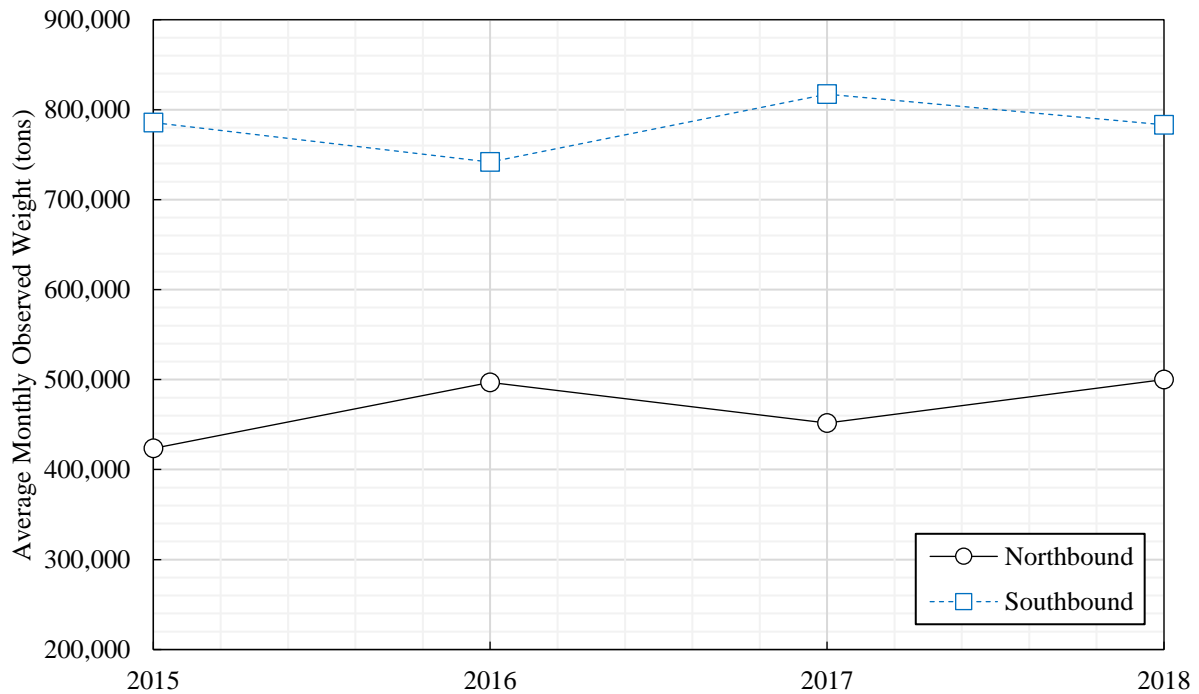


Figure 40: Directional Weight Trends by Year at Klamath Falls WIM Stations for All Trucks

SEASONAL TRENDS

As to not overlap years of WIM data, the seasonal trends are based and presented on the following:

- January to April
- May to August
- September to December

Ashland WIM Stations

Seasonal trends are presented by truck classification group and begin on the following page.

ODOT Class 03 to ODOT Class 10

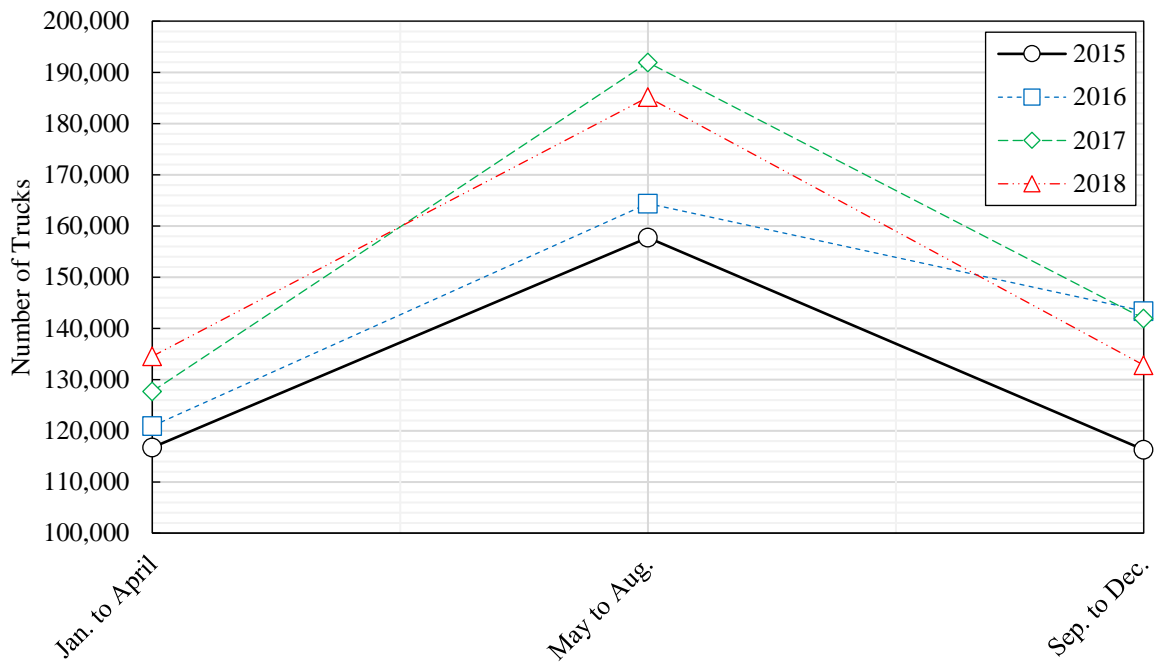


Figure 41: Seasonal Volume Trends by Year at Ashland (NB) WIM Station for ODOT Class 03 to ODOT Class 10 Trucks

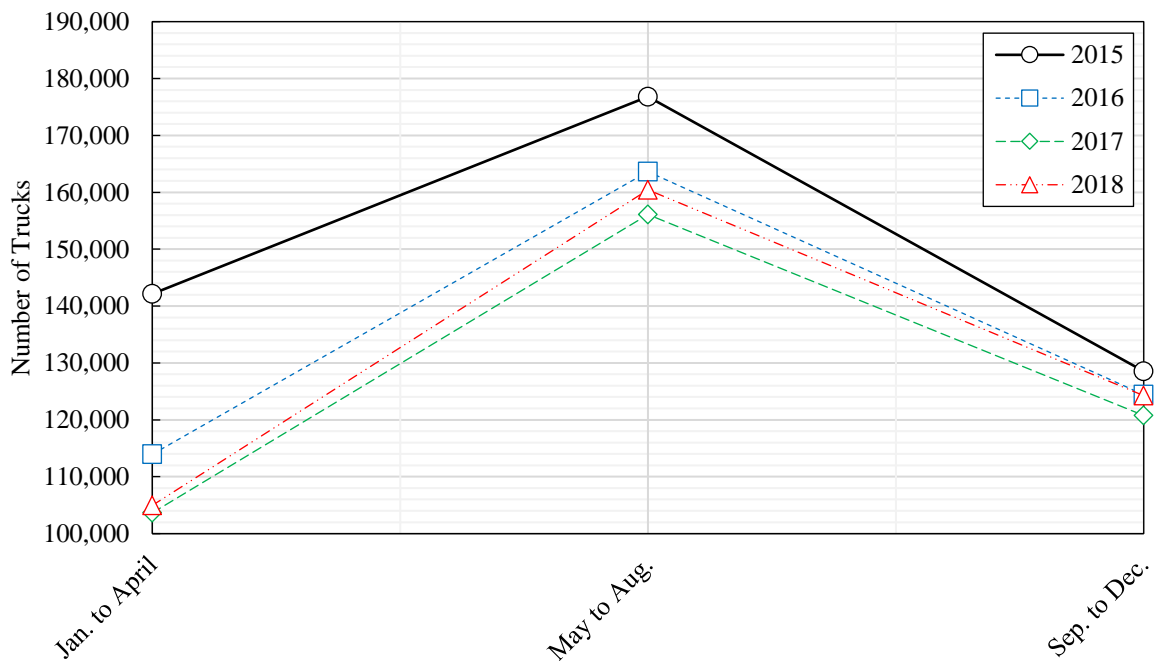


Figure 42: Seasonal Volume Trends by Year at Ashland (SB) WIM Station for ODOT Class 03 to ODOT Class 10 Trucks

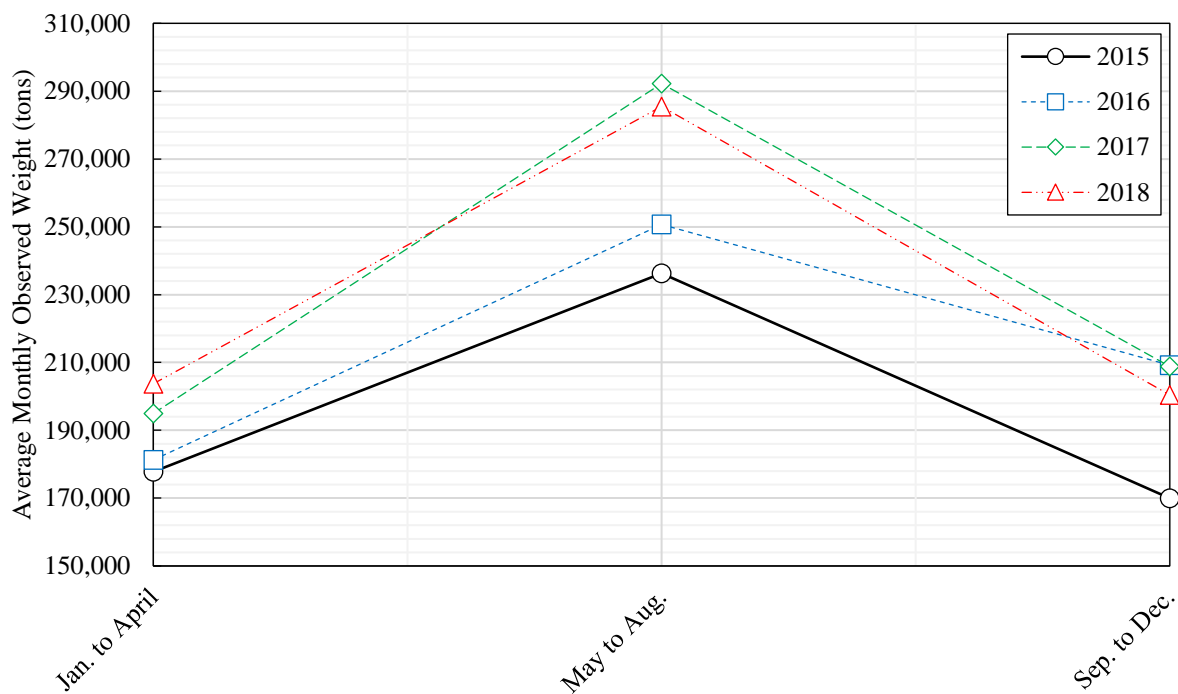


Figure 43: Seasonal Weight Trends by Year at Ashland (NB) WIM Station for ODOT Class 03 to ODOT Class 10 Trucks

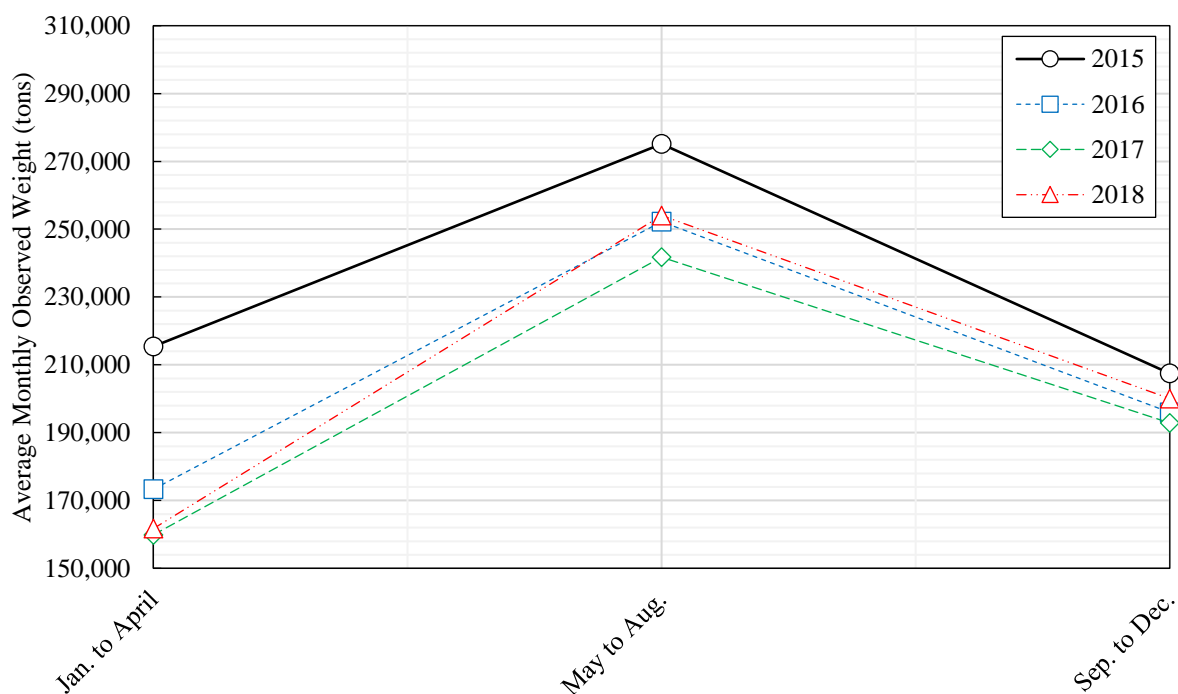


Figure 44: Seasonal Weight Trends by Year at Ashland (SB) WIM Station for ODOT Class 03 to ODOT Class 10 Trucks

ODOT Class 11

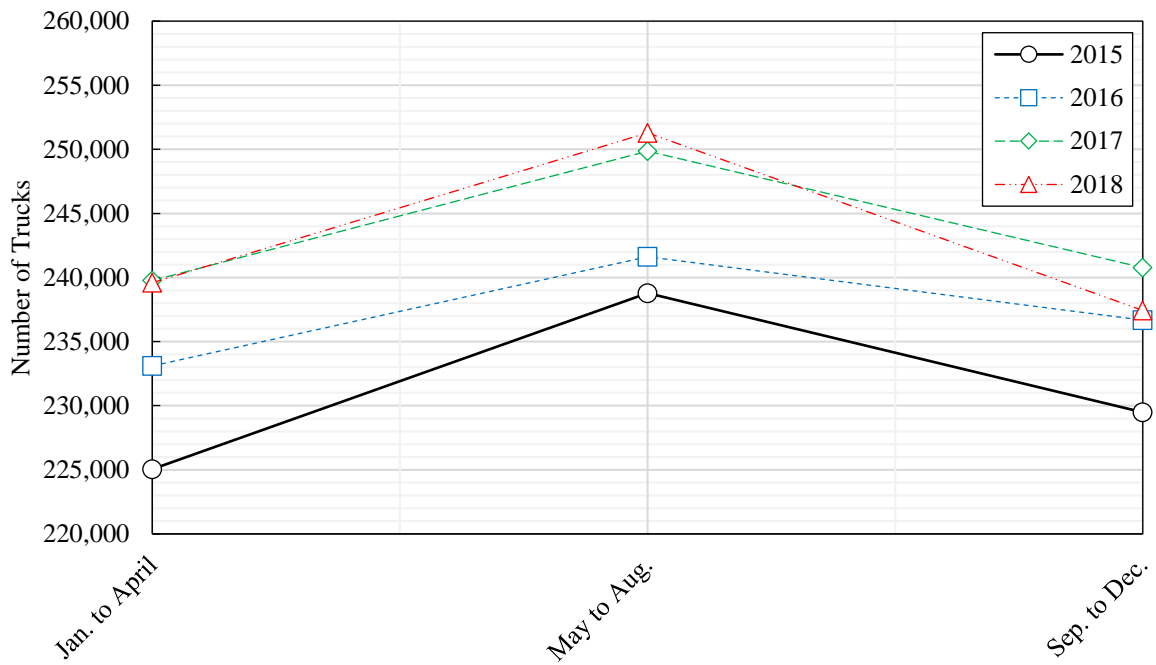


Figure 45: Seasonal Volume Trends by Year at Ashland (NB) WIM Station for ODOT Class 11 Trucks

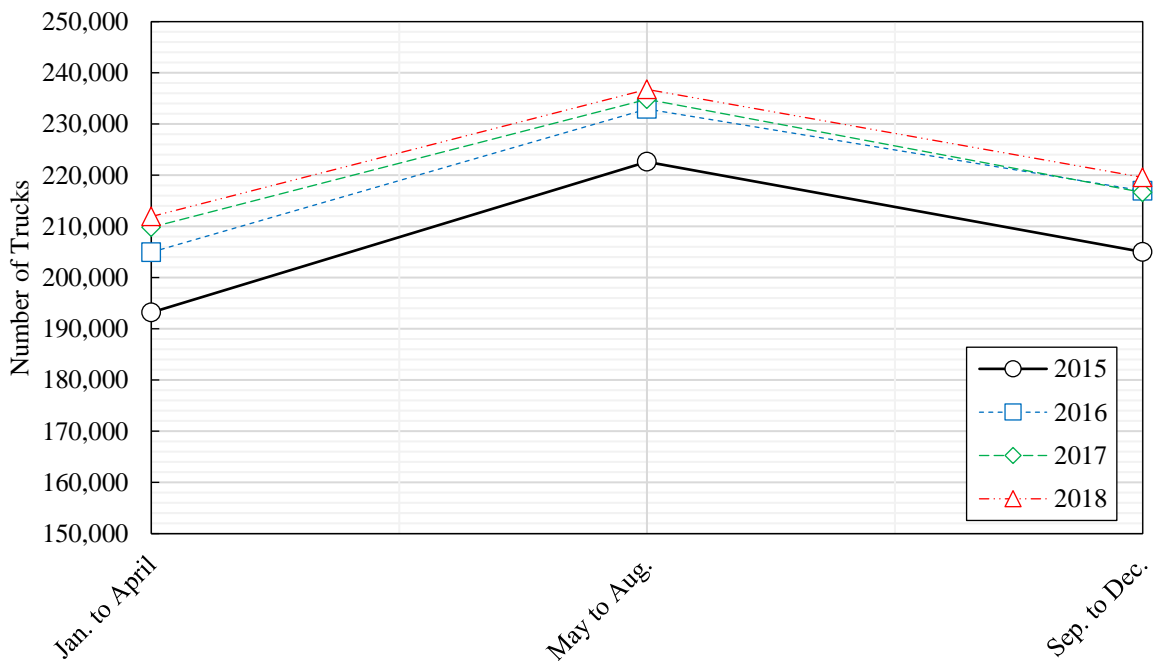


Figure 46: Seasonal Volume Trends by Year at Ashland (SB) WIM Station for ODOT Class 11 Trucks

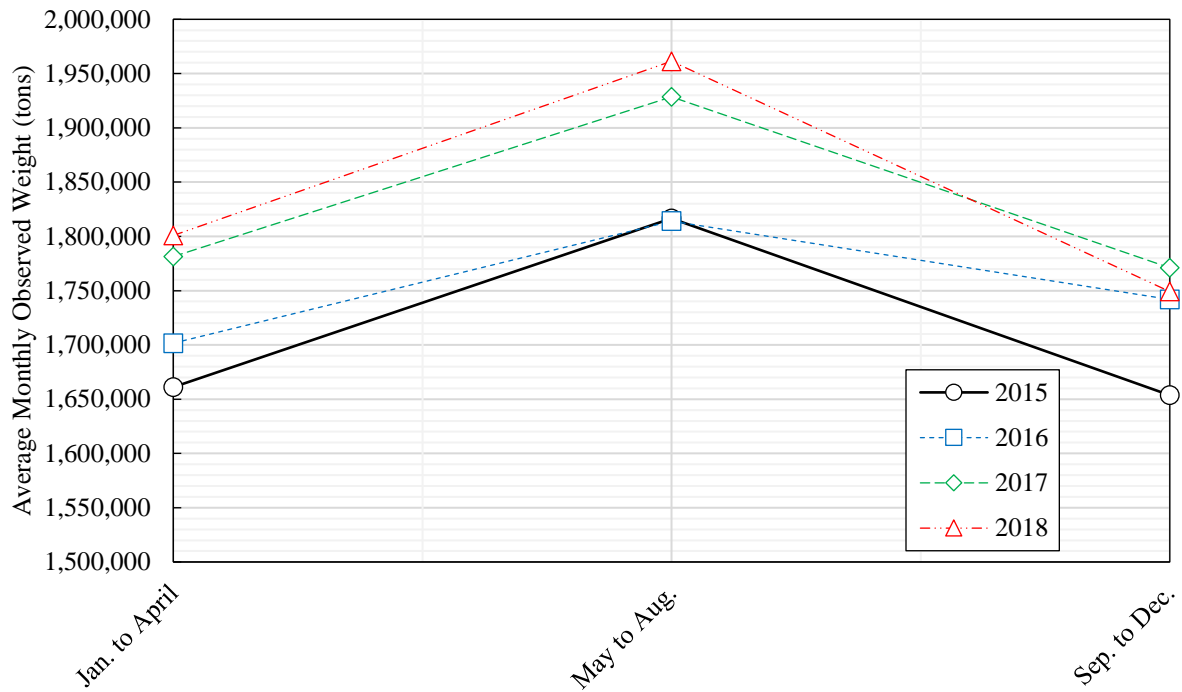


Figure 47: Seasonal Weight Trends by Year at Ashland (NB) WIM Station for ODOT Class 11 Trucks

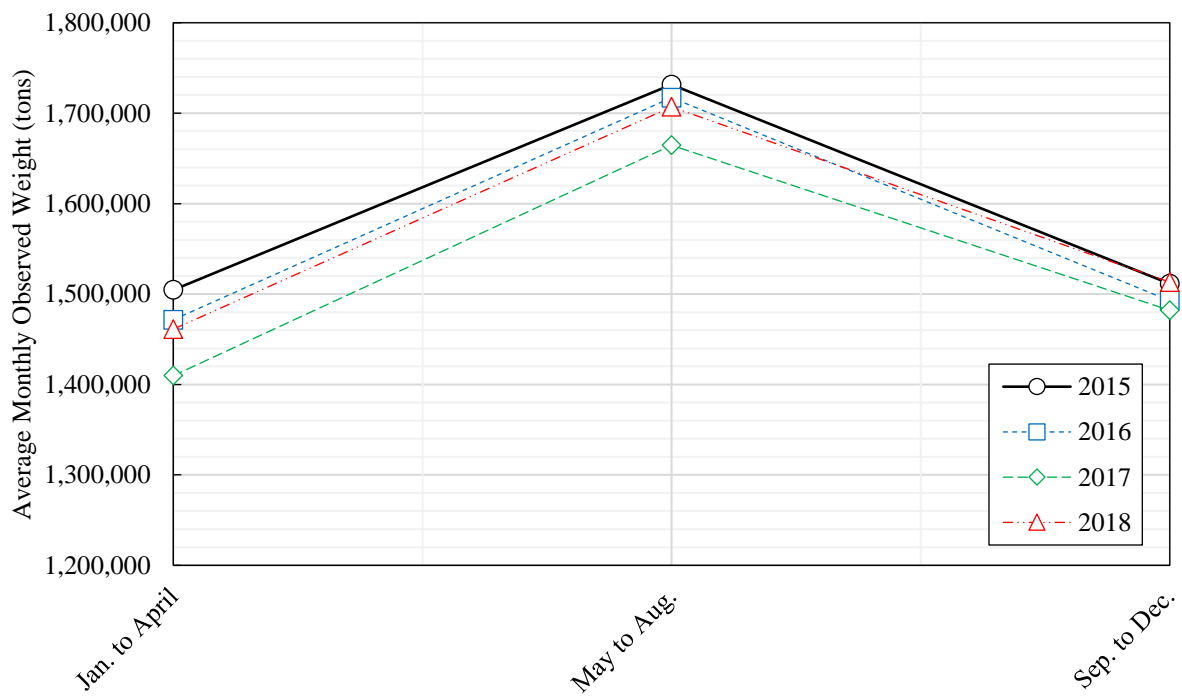


Figure 48: Seasonal Weight Trends by Year at Ashland (SB) WIM Station for ODOT Class 11 Trucks

ODOT Class 12 to ODOT Class 19

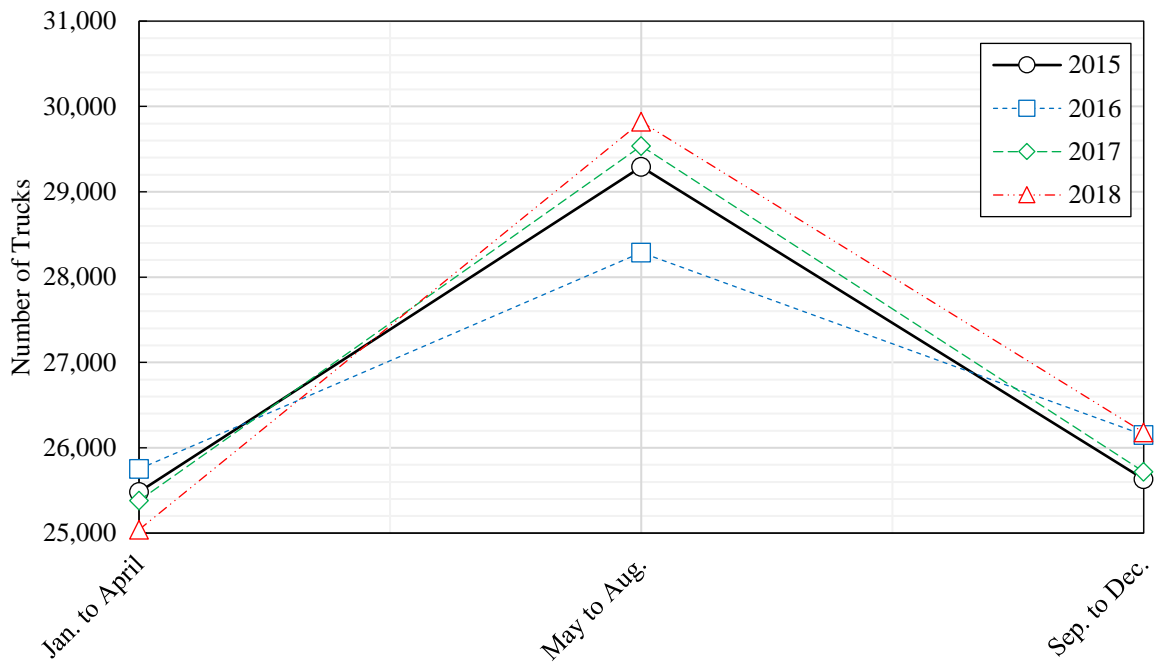


Figure 49: Seasonal Volume Trends by Year at Ashland (NB) WIM Station for ODOT Class 12 to ODOT Class 19 Trucks

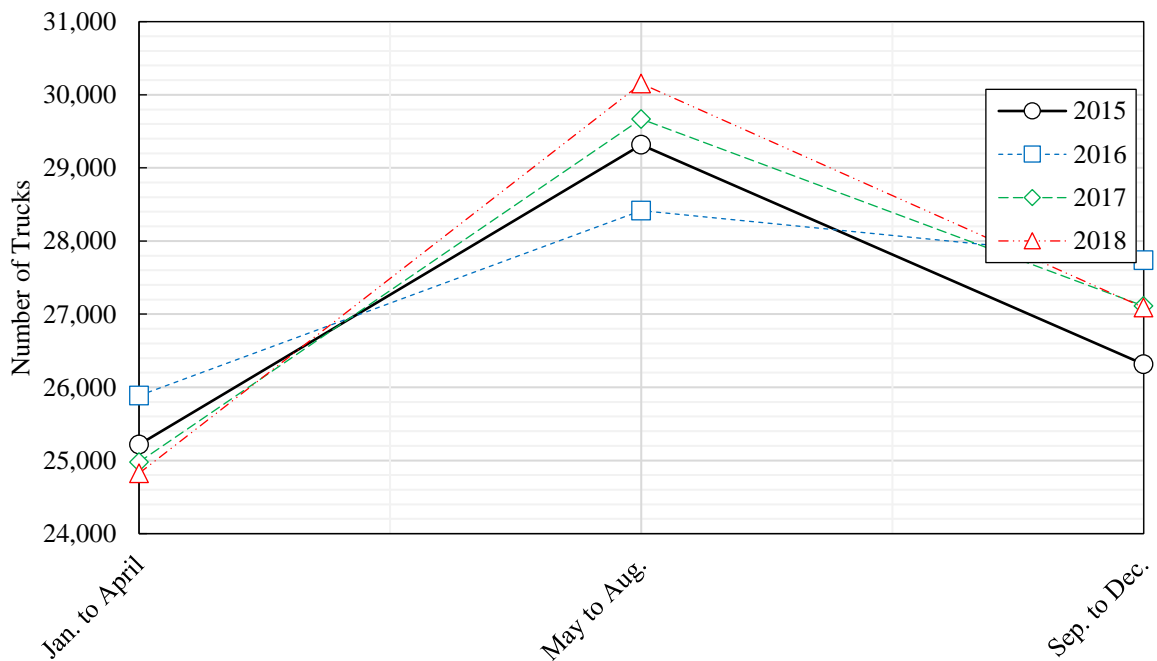


Figure 50: Seasonal Volume Trends by Year at Ashland (SB) WIM Station for ODOT Class 12 to ODOT Class 19 Trucks

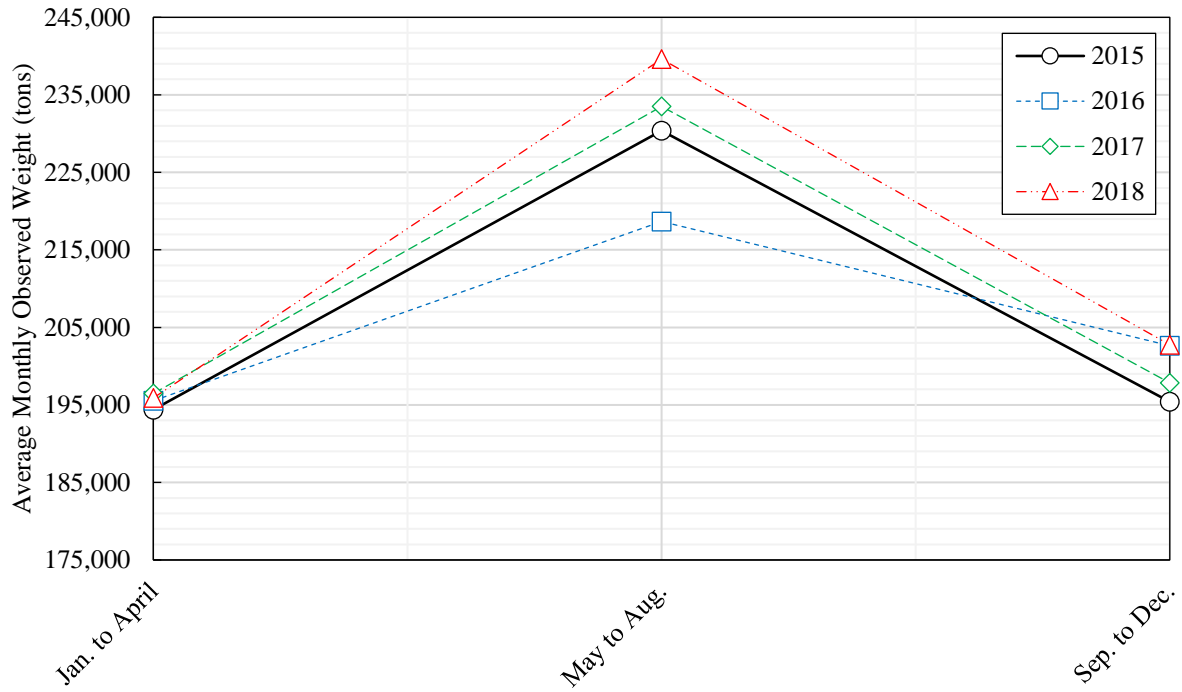


Figure 51: Seasonal Weight Trends by Year at Ashland (NB) WIM Station for ODOT Class 12 to ODOT Class 19 Trucks

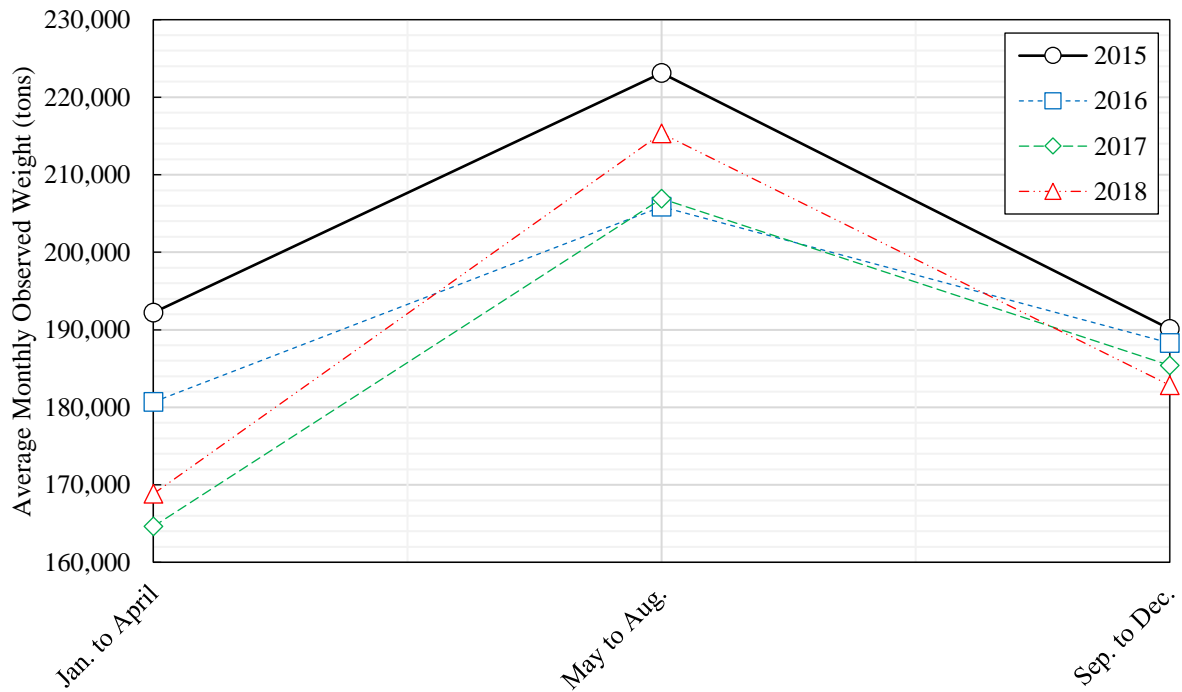


Figure 52: Seasonal Weight Trends by Year at Ashland (SB) WIM Station for ODOT Class 12 to ODOT Class 19 Trucks

All Trucks (ODOT Class 03 to ODOT Class 19, Excluding Class 04 and Class 07)

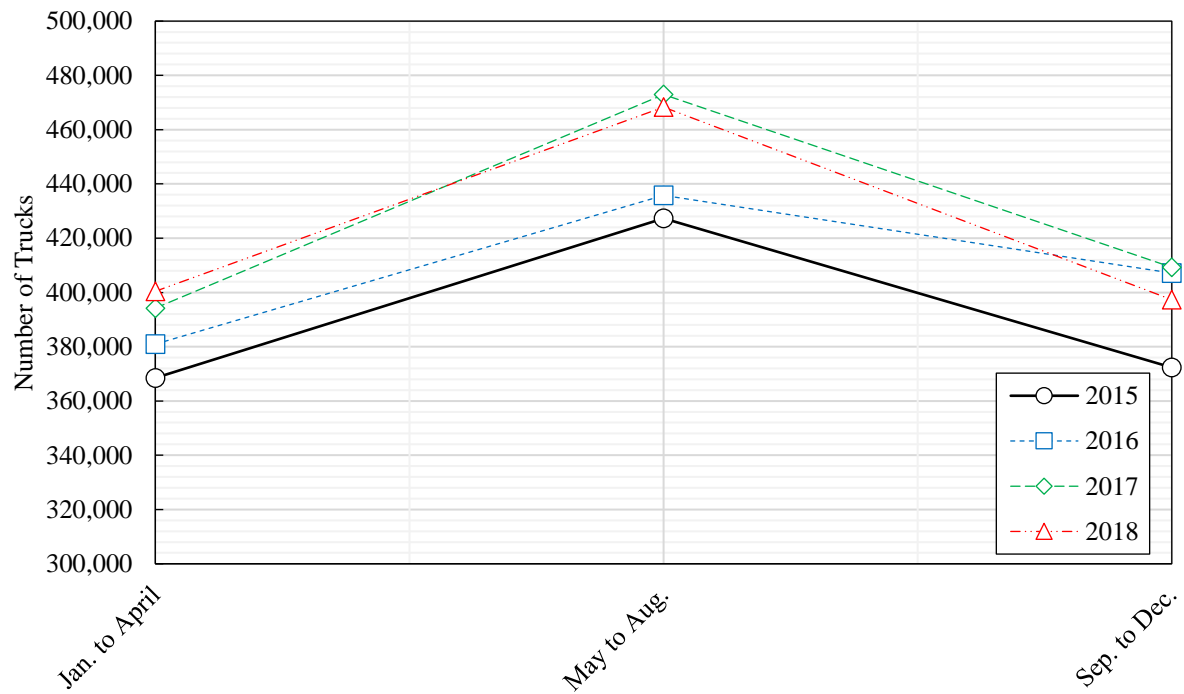


Figure 53: Seasonal Volume Trends by Year at Ashland (NB) WIM Station for All Trucks

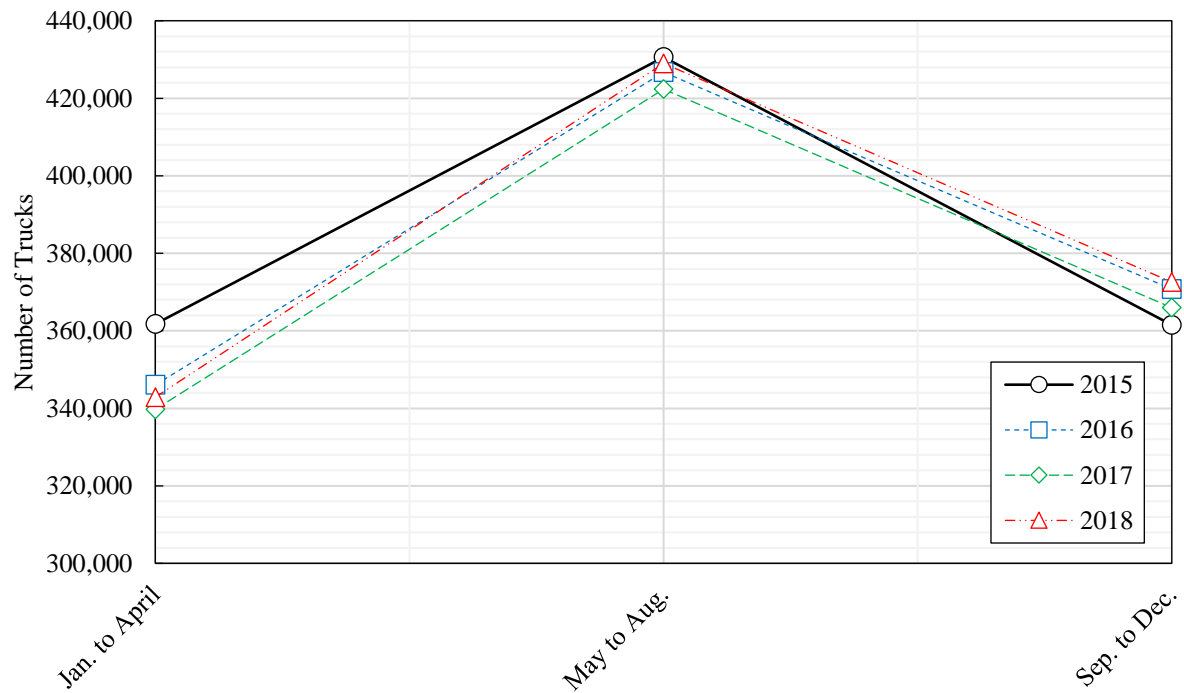


Figure 54: Seasonal Volume Trends by Year at Ashland (SB) WIM Station for All Trucks

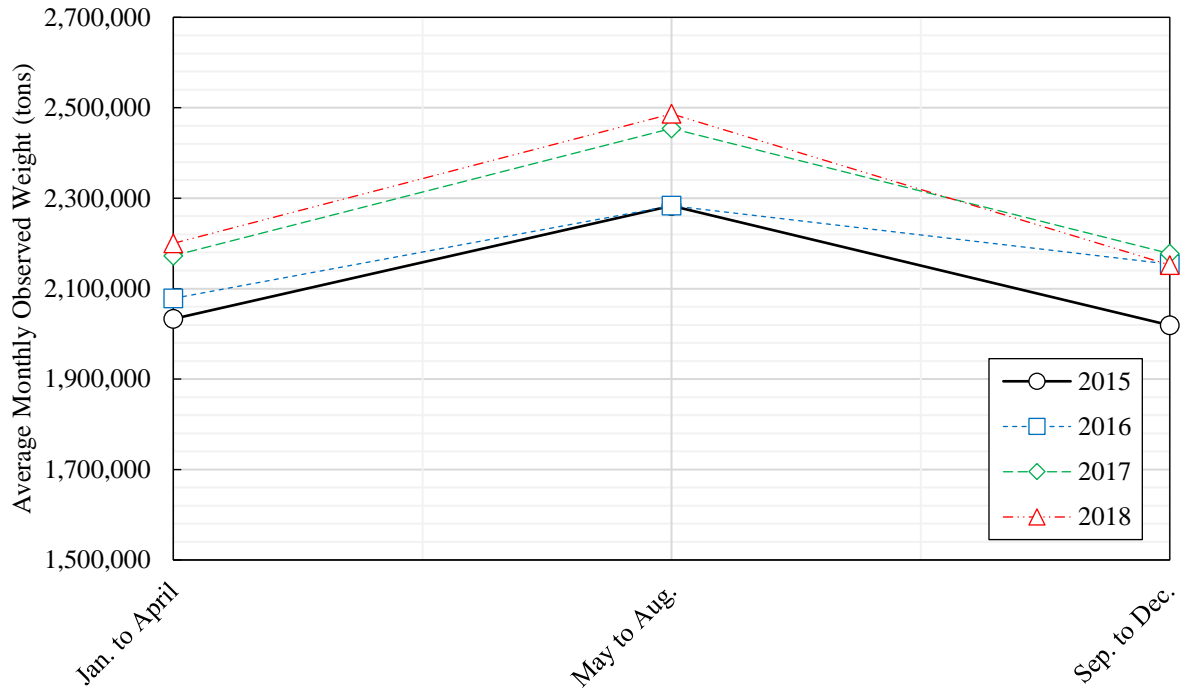


Figure 55: Seasonal Weight Trends by Year at Ashland (NB) WIM Station for All Trucks

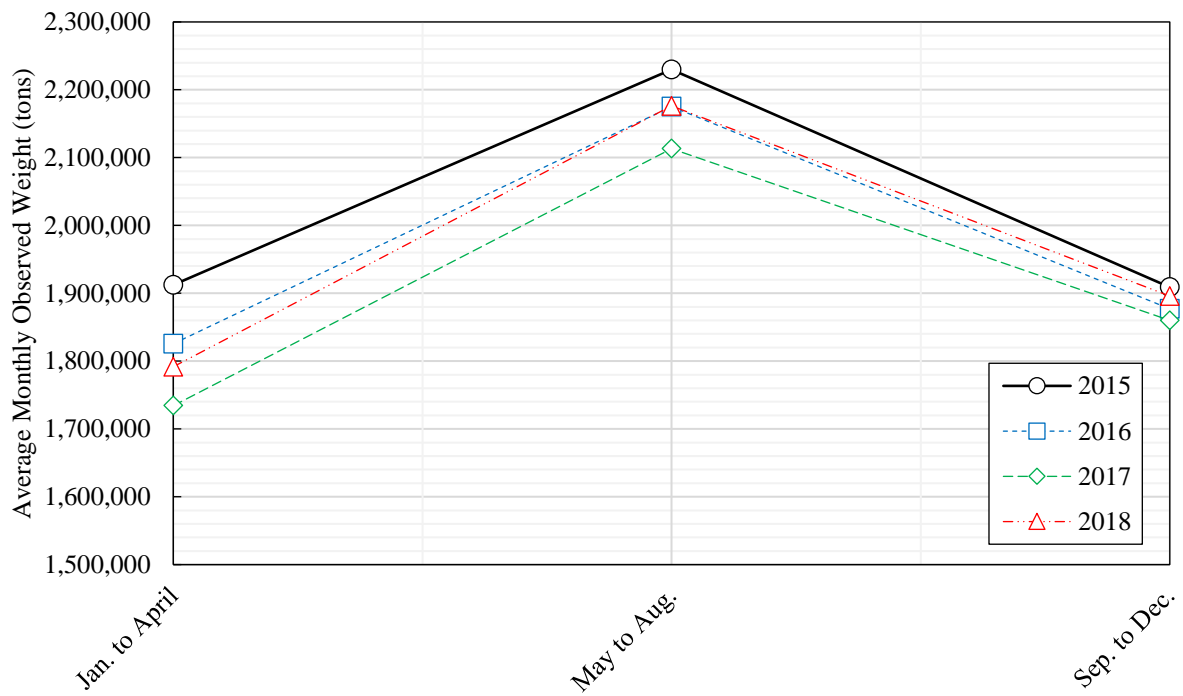


Figure 56: Seasonal Weight Trends by Year at Ashland (SB) WIM Station for All Trucks

Woodburn WIM Stations

Seasonal trends are presented by truck classification group and begin on the following page.

ODOT Class 03 to ODOT Class 10

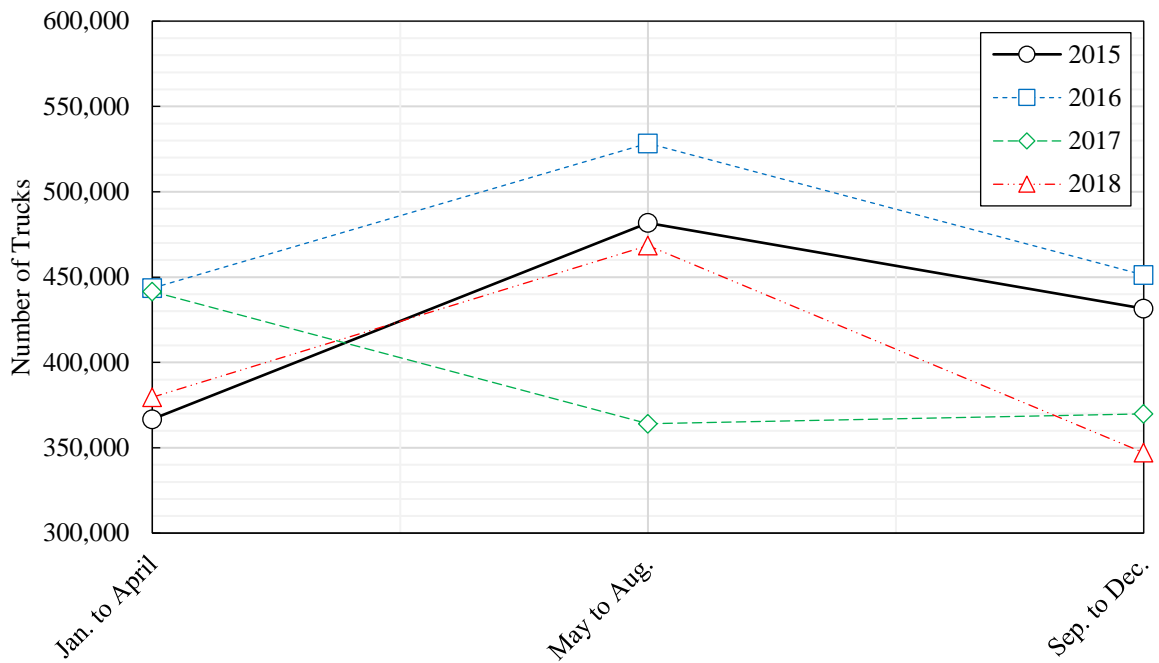


Figure 57: Seasonal Volume Trends by Year at Woodburn (NB) WIM Station for ODOT Class 03 to ODOT Class 10 Trucks

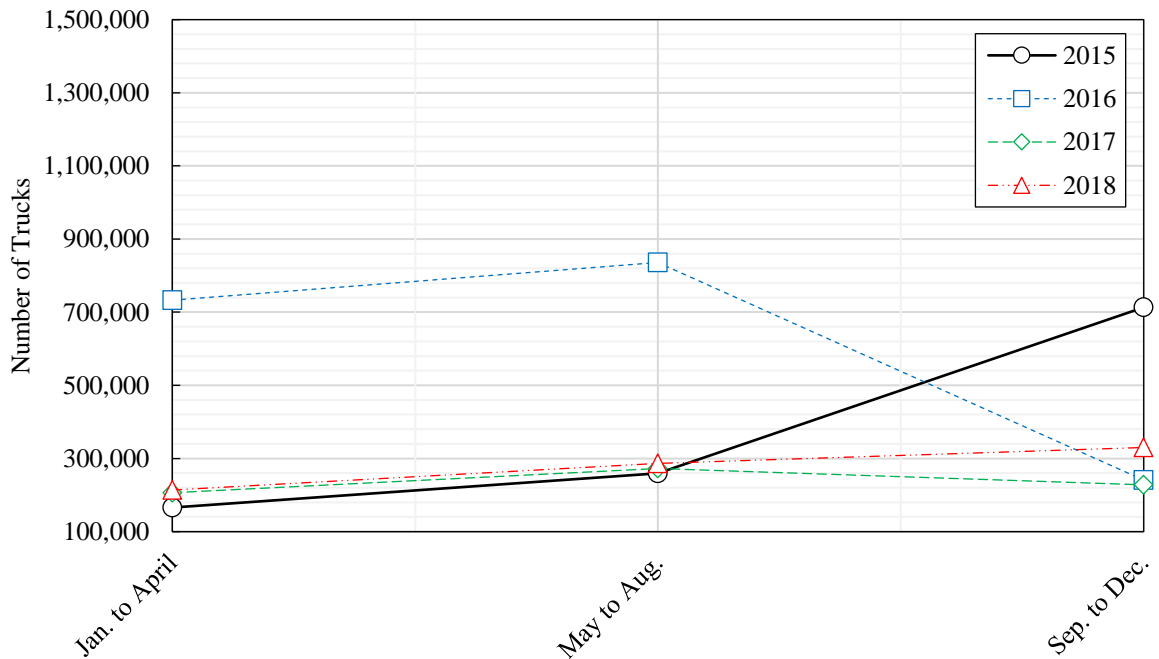


Figure 58: Seasonal Volume Trends by Year at Woodburn (SB) WIM Station for ODOT Class 03 to ODOT Class 10 Trucks

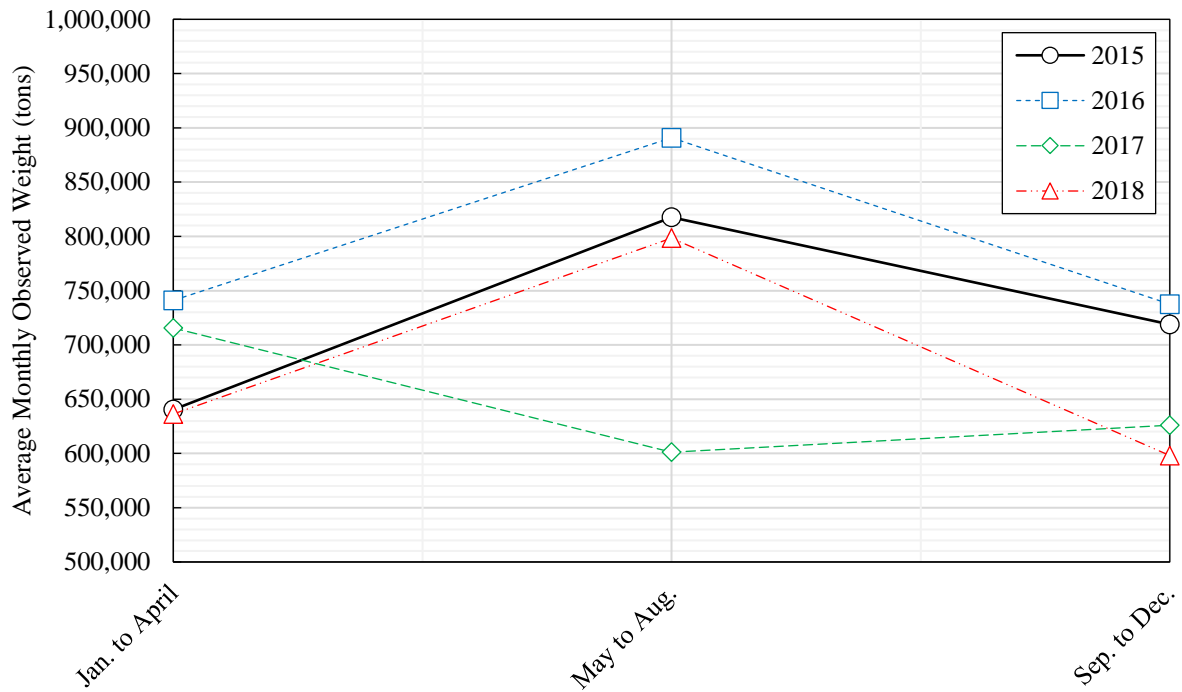


Figure 59: Seasonal Weight Trends by Year at Woodburn (NB) WIM Station for ODOT Class 03 to ODOT Class 10 Trucks

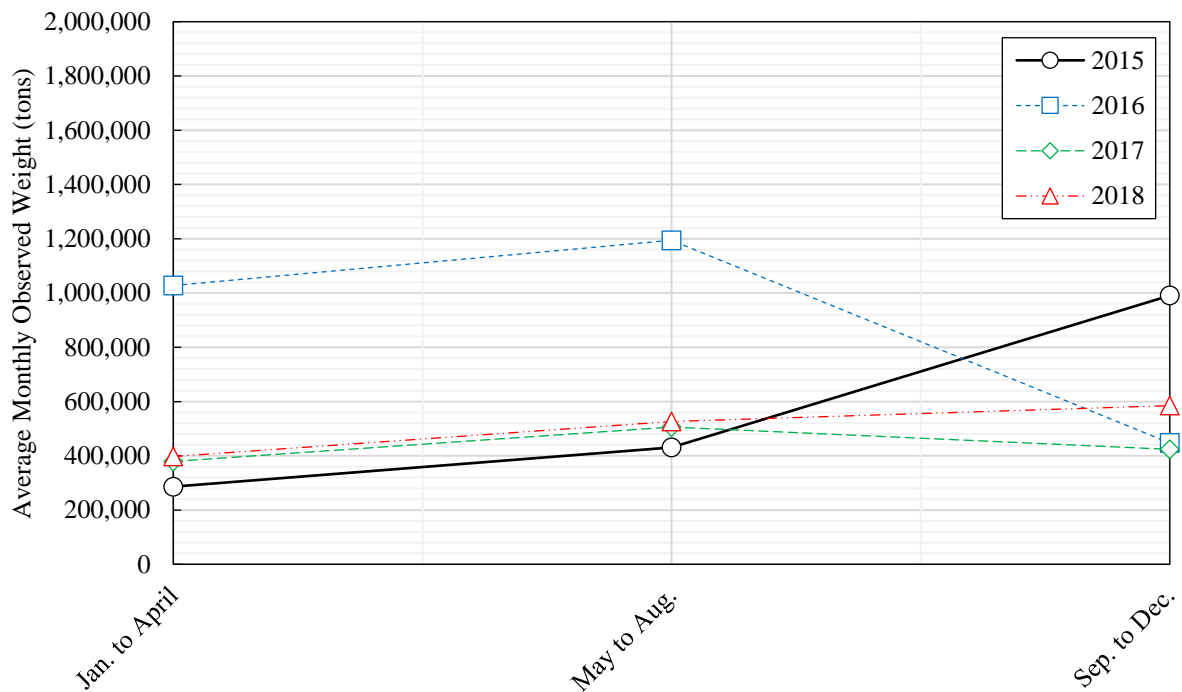


Figure 60: Seasonal Weight Trends by Year at Woodburn (SB) WIM Station for ODOT Class 03 to ODOT Class 10 Trucks

ODOT Class 11

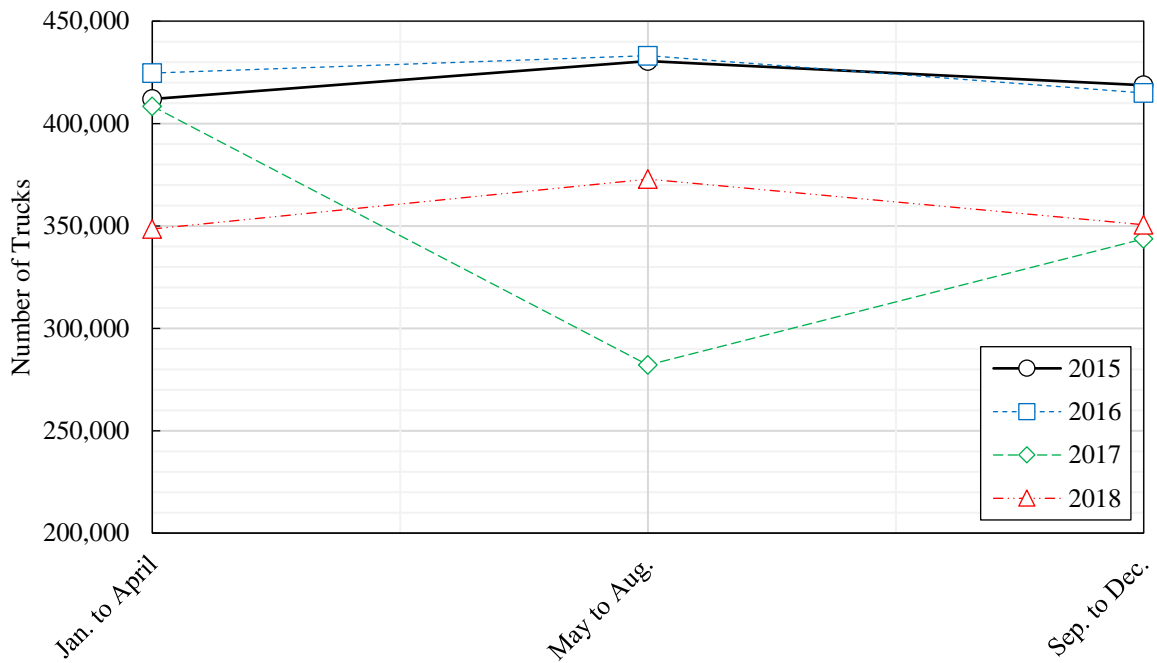


Figure 61: Seasonal Volume Trends by Year at Woodburn (NB) WIM Station for ODOT Class 11 Trucks

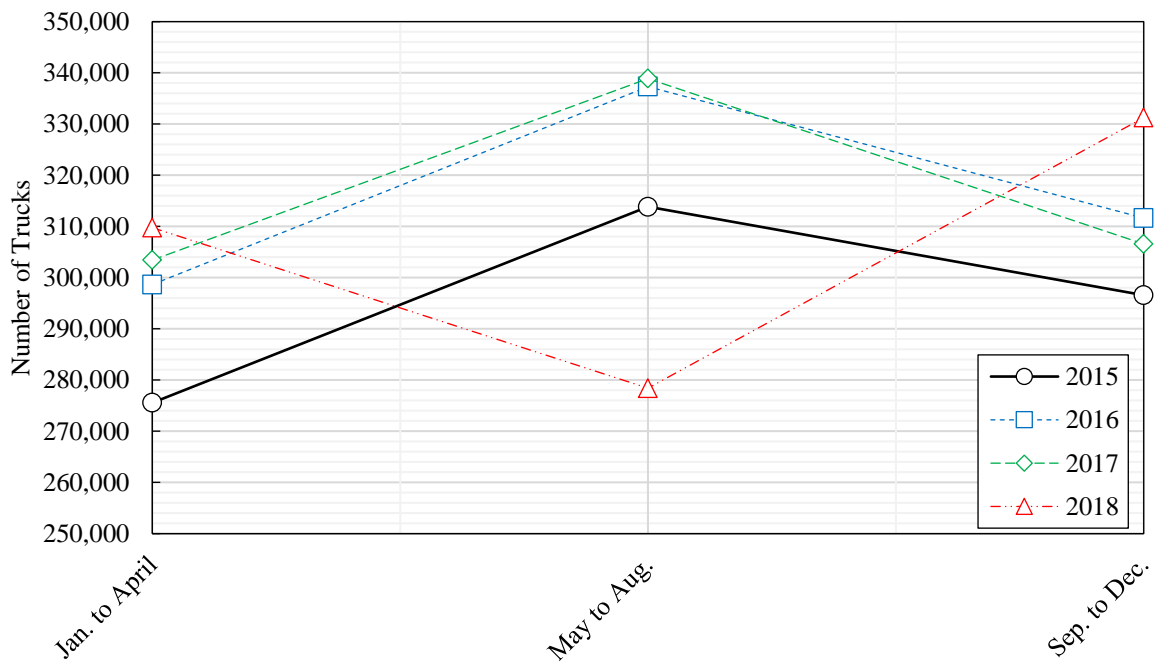


Figure 62: Seasonal Volume Trends by Year at Woodburn (SB) WIM Station for ODOT Class 11 Trucks

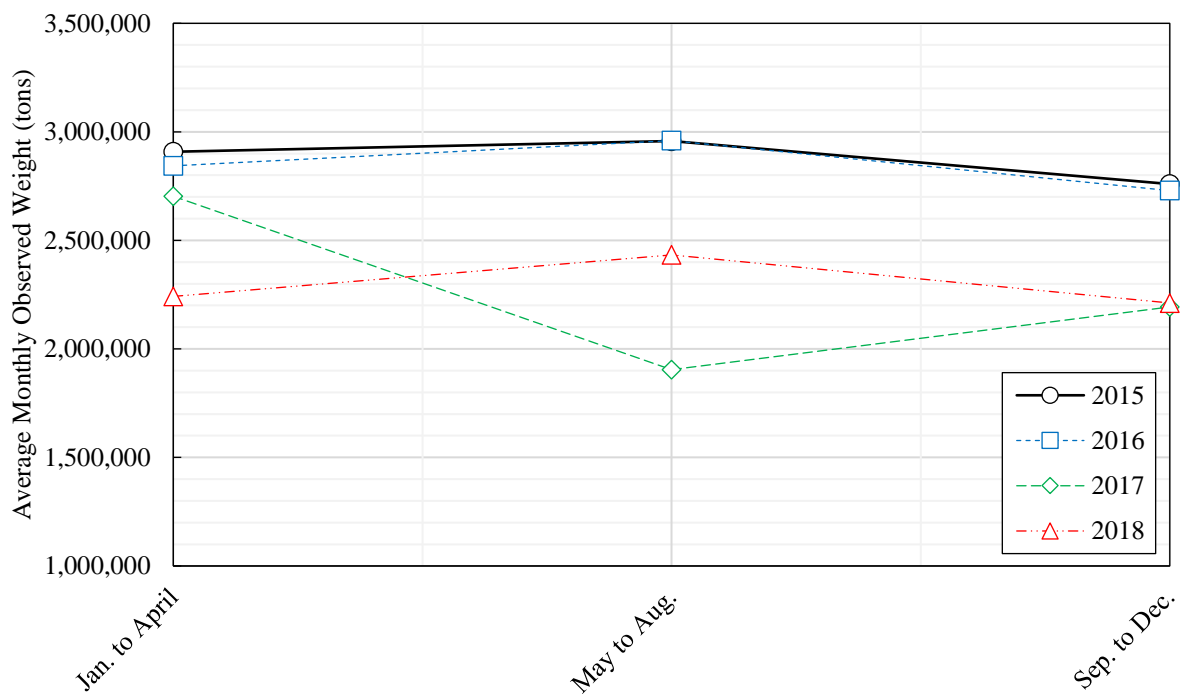


Figure 63: Seasonal Weight Trends by Year at Woodburn (NB) WIM Station for ODOT Class 11 Trucks

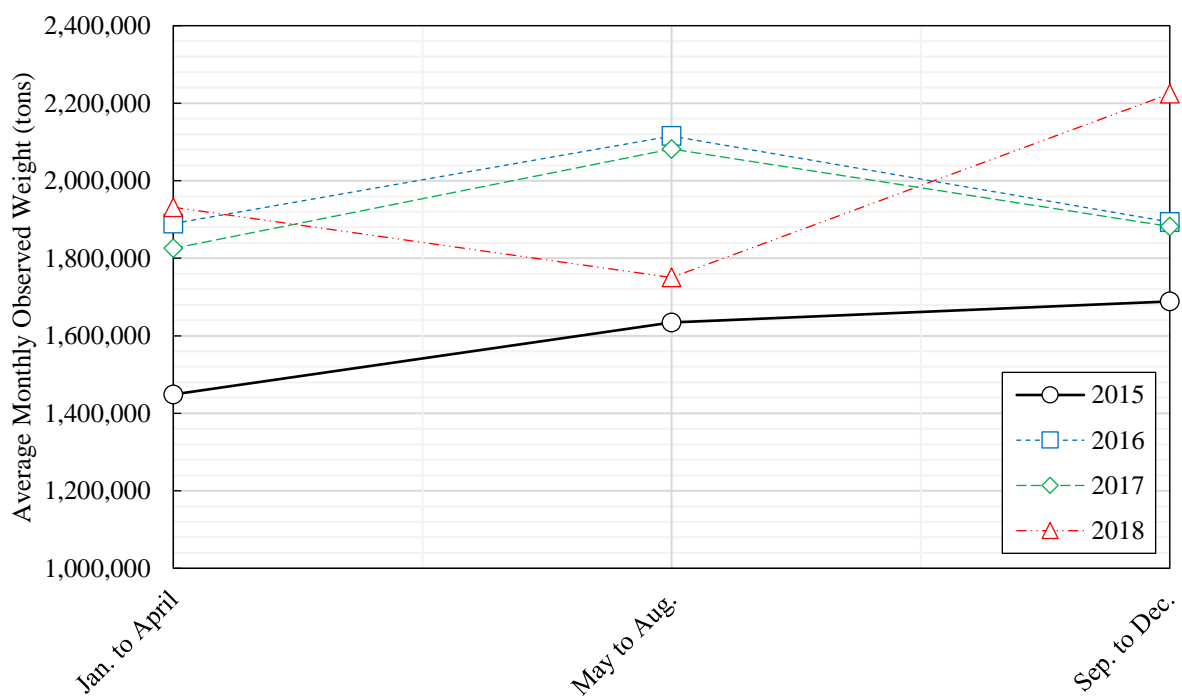


Figure 64: Seasonal Weight Trends by Year at Woodburn (SB) WIM Station for ODOT Class 11 Trucks

ODOT Class 12 to ODOT Class 19

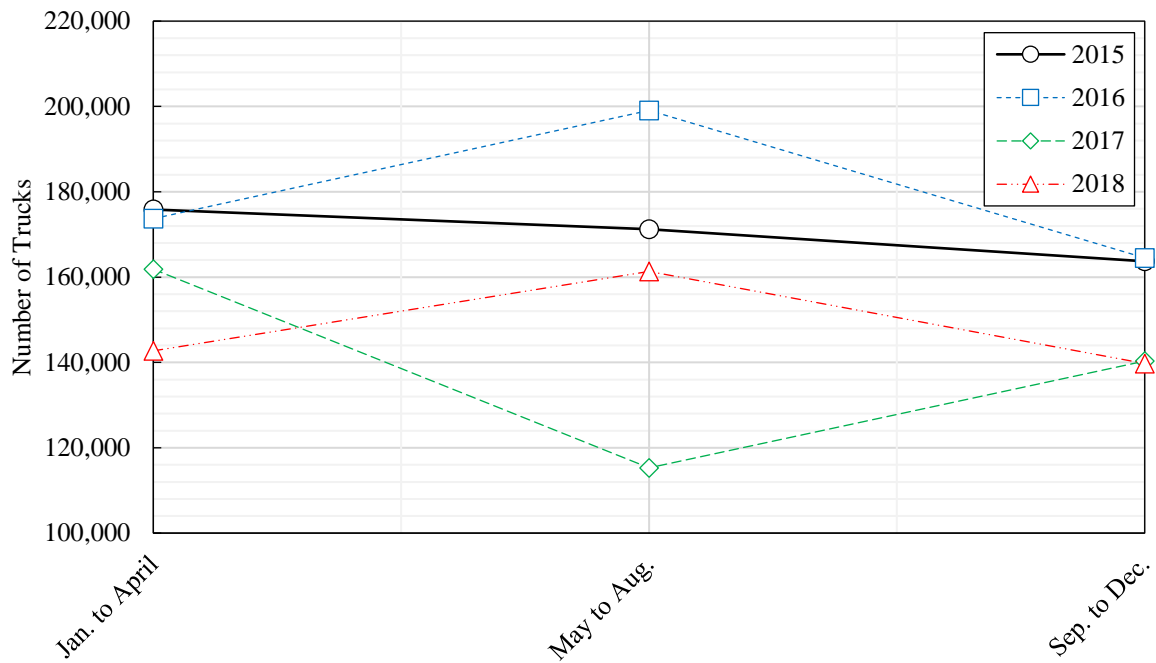


Figure 65: Seasonal Volume Trends by Year at Woodburn (NB) WIM Station for ODOT Class 12 to ODOT Class 19 Trucks

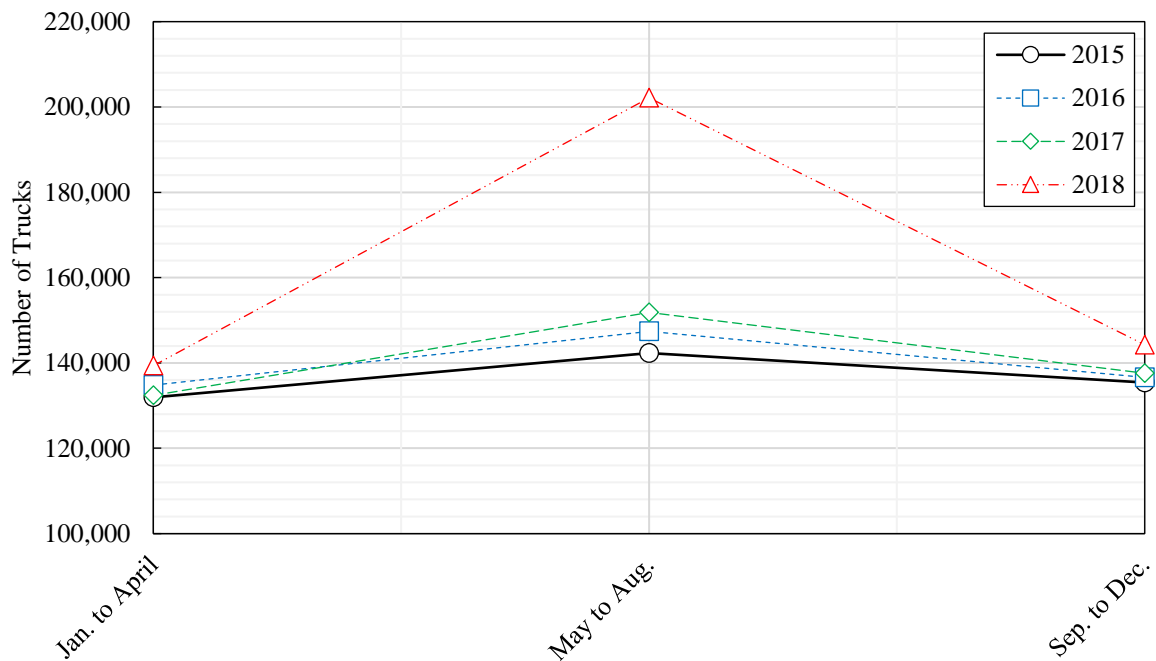


Figure 66: Seasonal Volume Trends by Year at Woodburn (SB) WIM Station for ODOT Class 12 to ODOT Class 19 Trucks

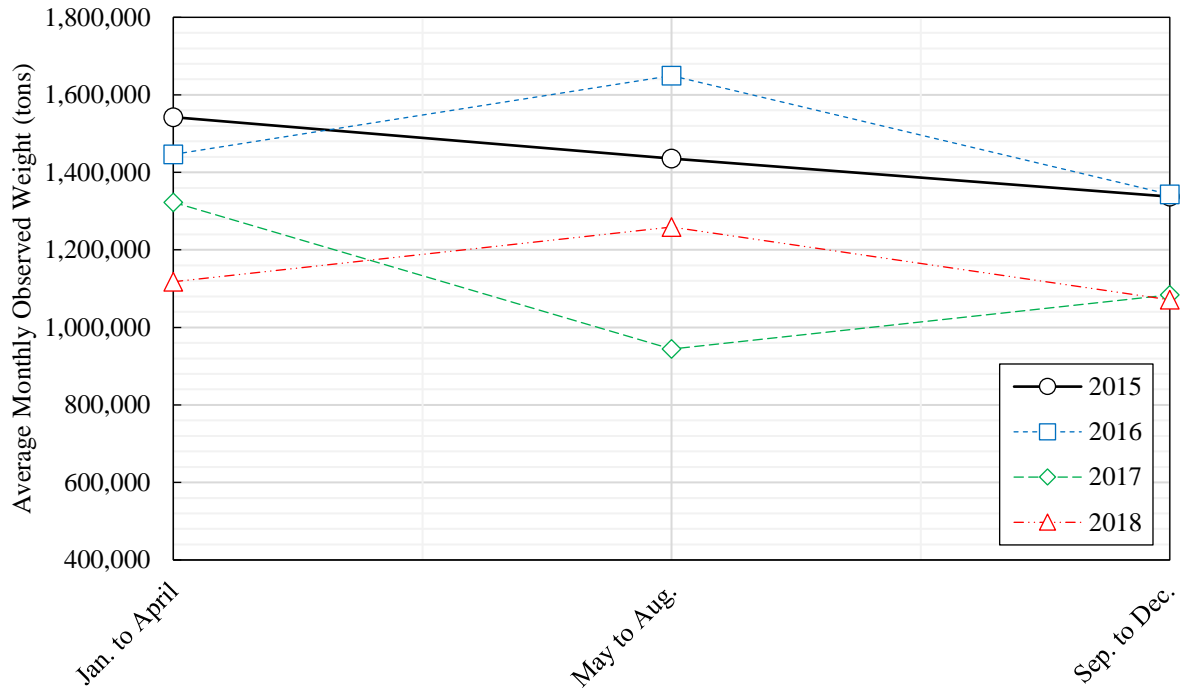


Figure 67: Seasonal Weight Trends by Year at Woodburn (NB) WIM Station for ODOT Class 12 to ODOT Class 19 Trucks

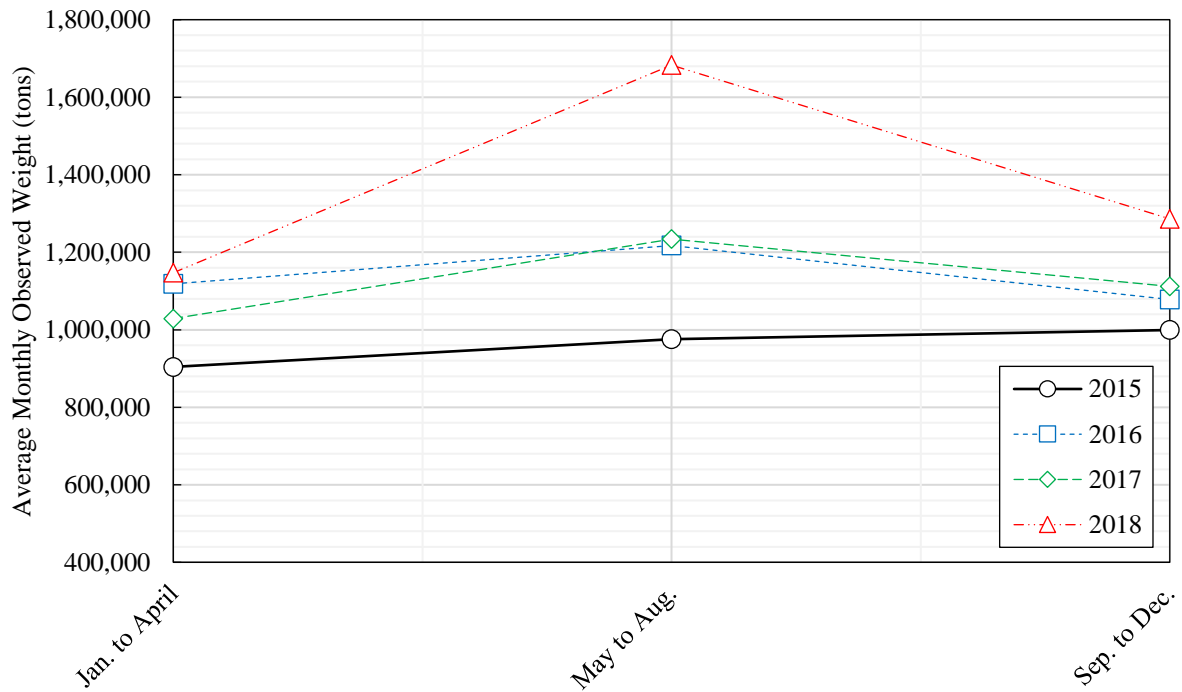


Figure 68: Seasonal Weight Trends by Year at Woodburn (SB) WIM Station for ODOT Class 12 to ODOT Class 19 Trucks

All Trucks (ODOT Class 03 to ODOT Class 19, Excluding Class 04 and Class 07)

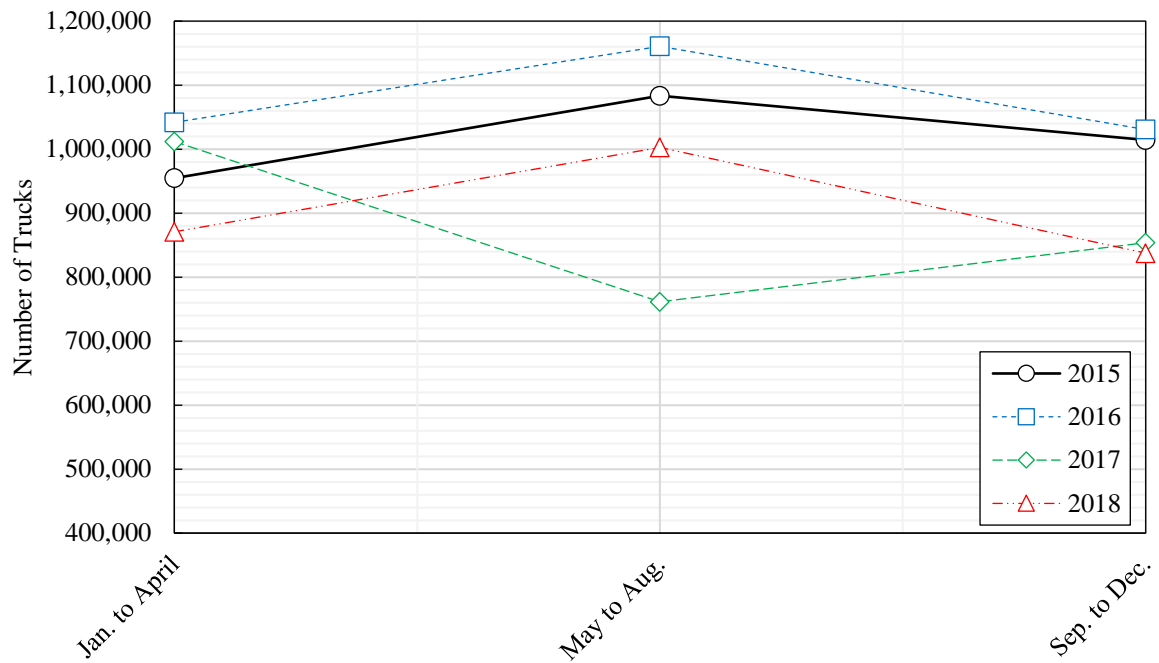


Figure 69: Seasonal Volume Trends by Year at Woodburn (NB) WIM Station for All Trucks

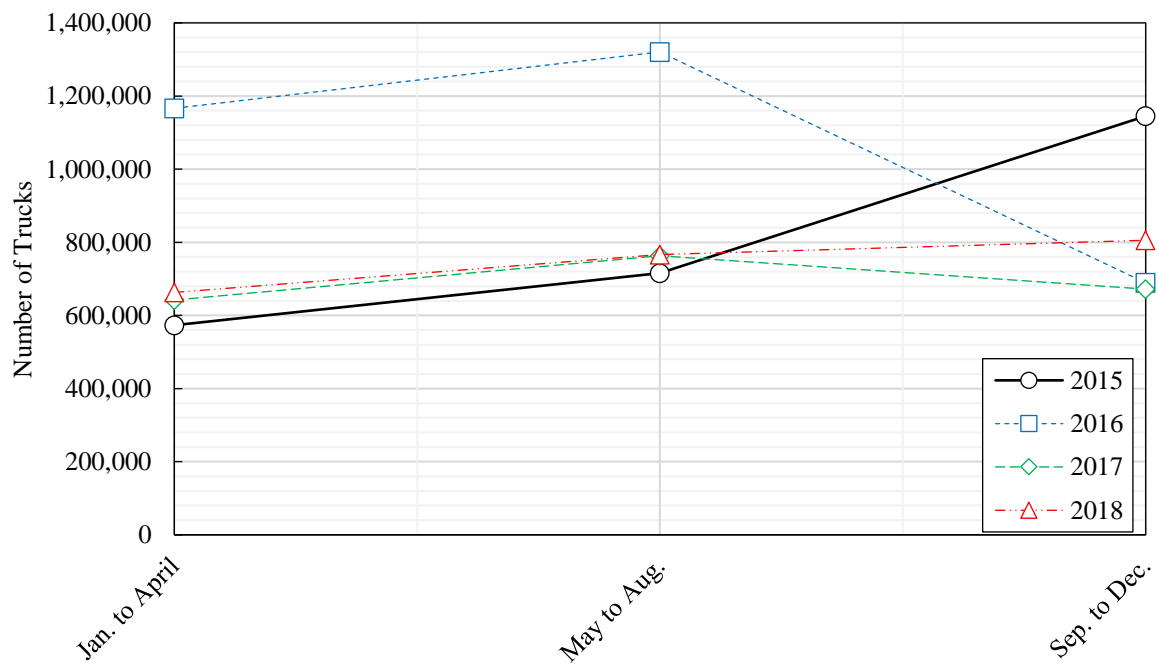


Figure 70: Seasonal Volume Trends by Year at Woodburn (SB) WIM Station for All Trucks

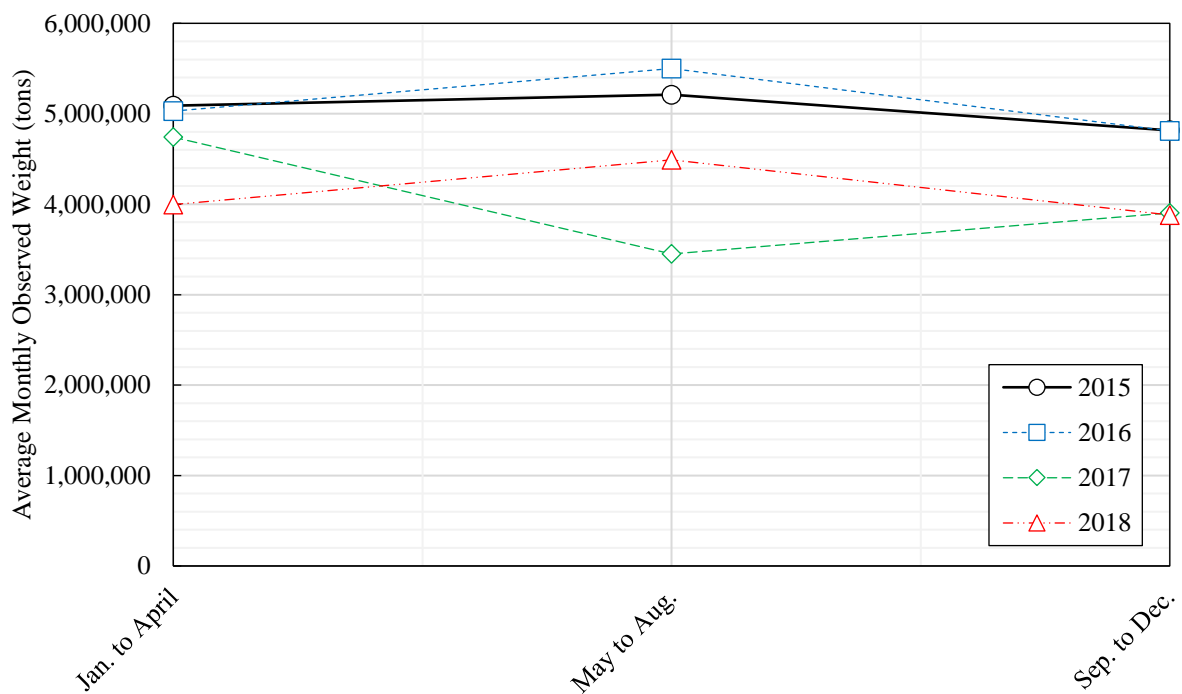


Figure 71: Seasonal Weight Trends by Year at Woodburn (NB) WIM Station for All Trucks

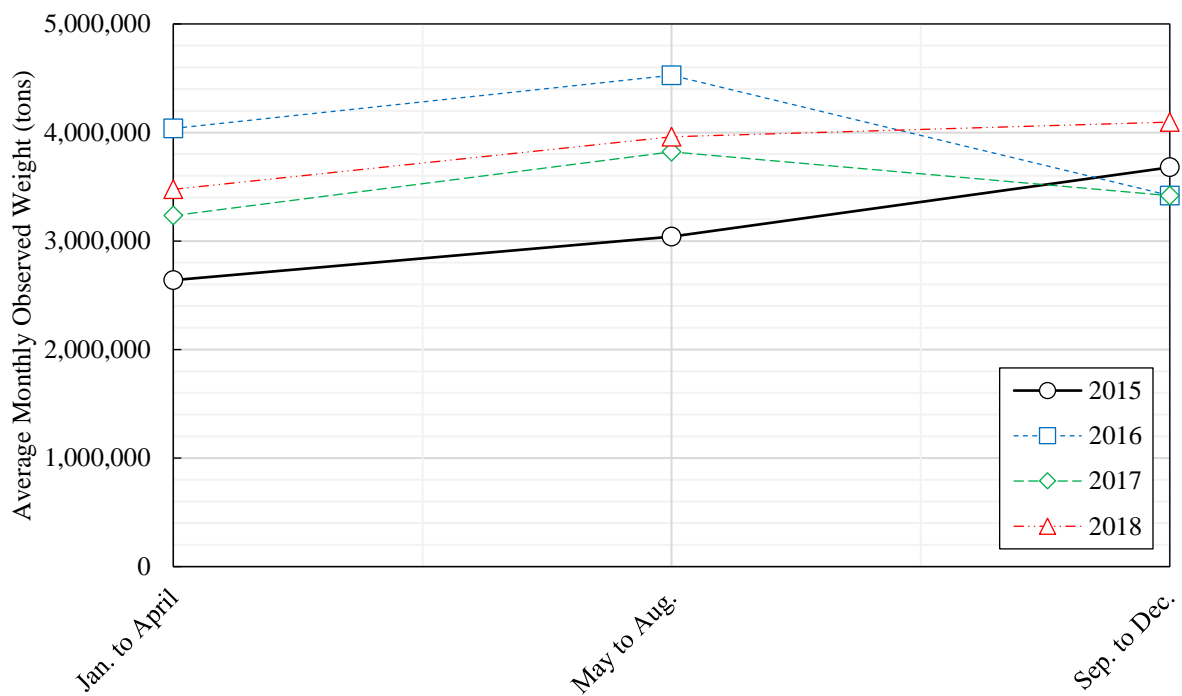


Figure 72: Seasonal Weight Trends by Year at Woodburn (SB) WIM Station for All Trucks

Cascade Locks (EB) and Wyeth (WB) WIM Stations

Seasonal trends are presented by truck classification group and begin on the following page.

ODOT Class 03 to ODOT Class 10

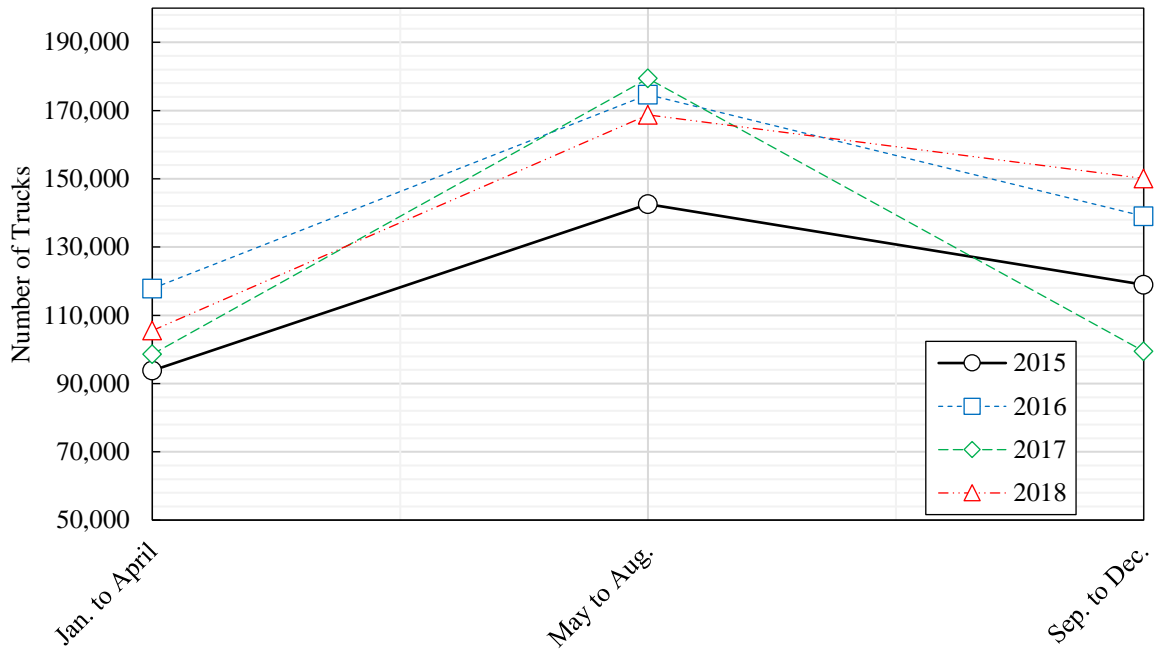


Figure 73: Seasonal Volume Trends by Year at Cascade Locks (EB) WIM Station for ODOT Class 03 to ODOT Class 10 Trucks

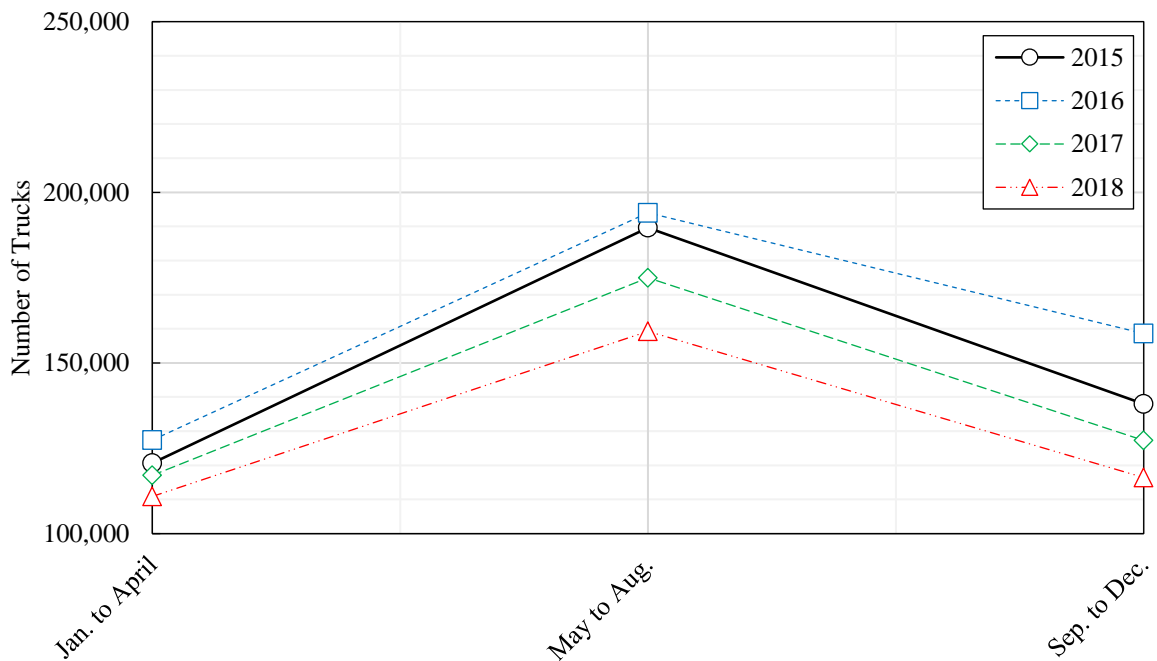


Figure 74: Seasonal Volume Trends by Year at Wyeth (WB) WIM Station for ODOT Class 03 to ODOT Class 10 Trucks

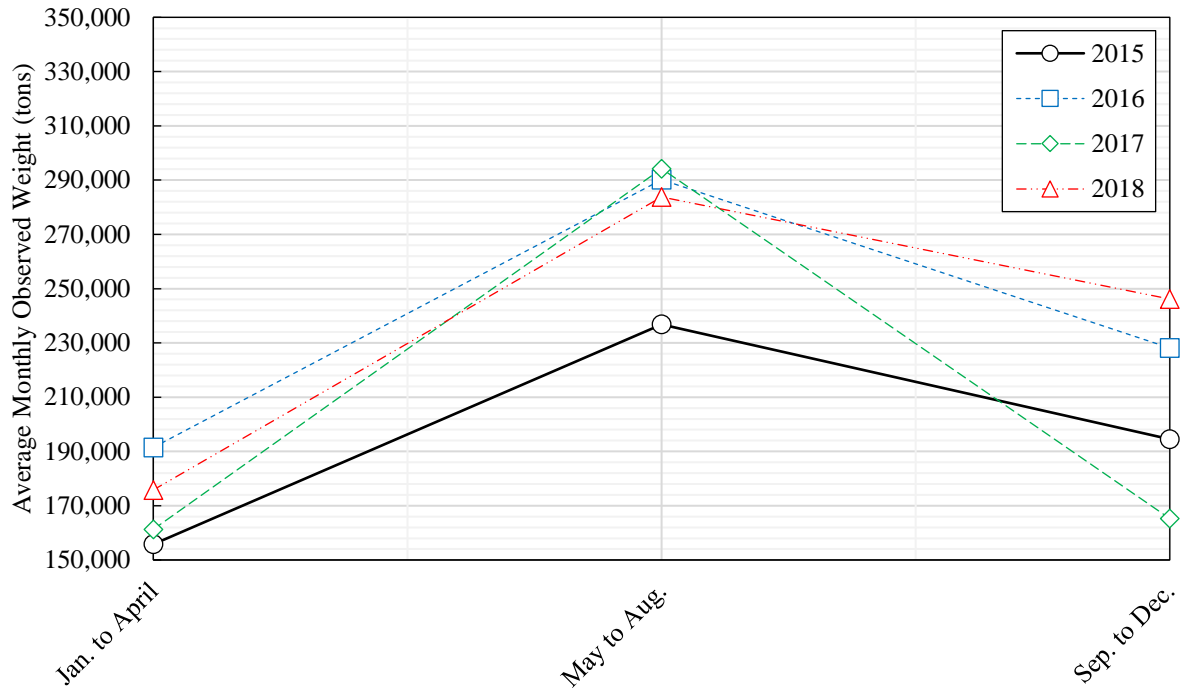


Figure 75: Seasonal Weight Trends by Year at Cascade Locks (EB) WIM Station for ODOT Class 03 to ODOT Class 10 Trucks

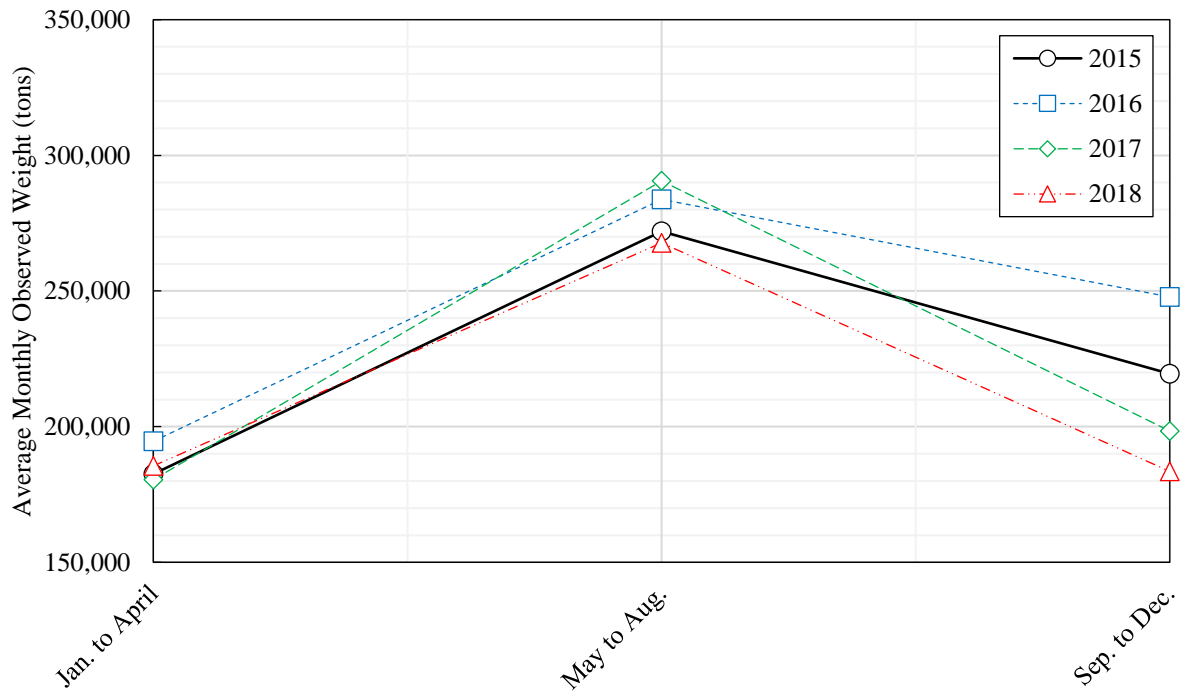


Figure 76: Seasonal Weight Trends by Year at Wyeth (WB) WIM Station for ODOT Class 03 to ODOT Class 10 Trucks

ODOT Class 11

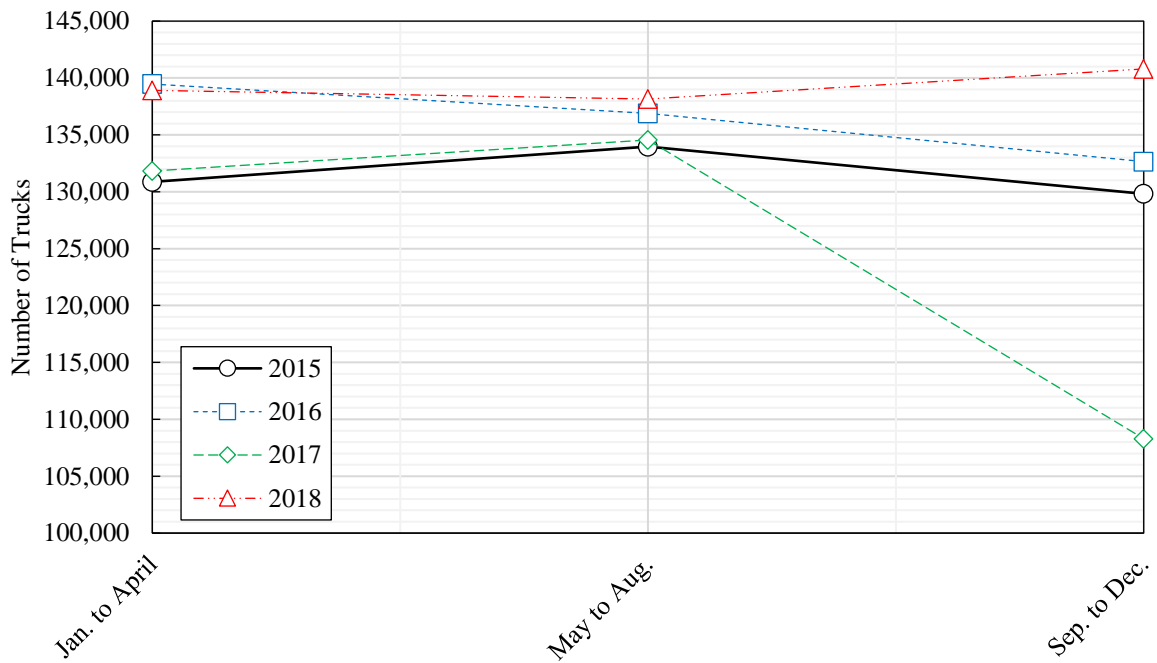


Figure 77: Seasonal Volume Trends by Year at Cascade Locks (EB) WIM Station for ODOT Class 11 Trucks

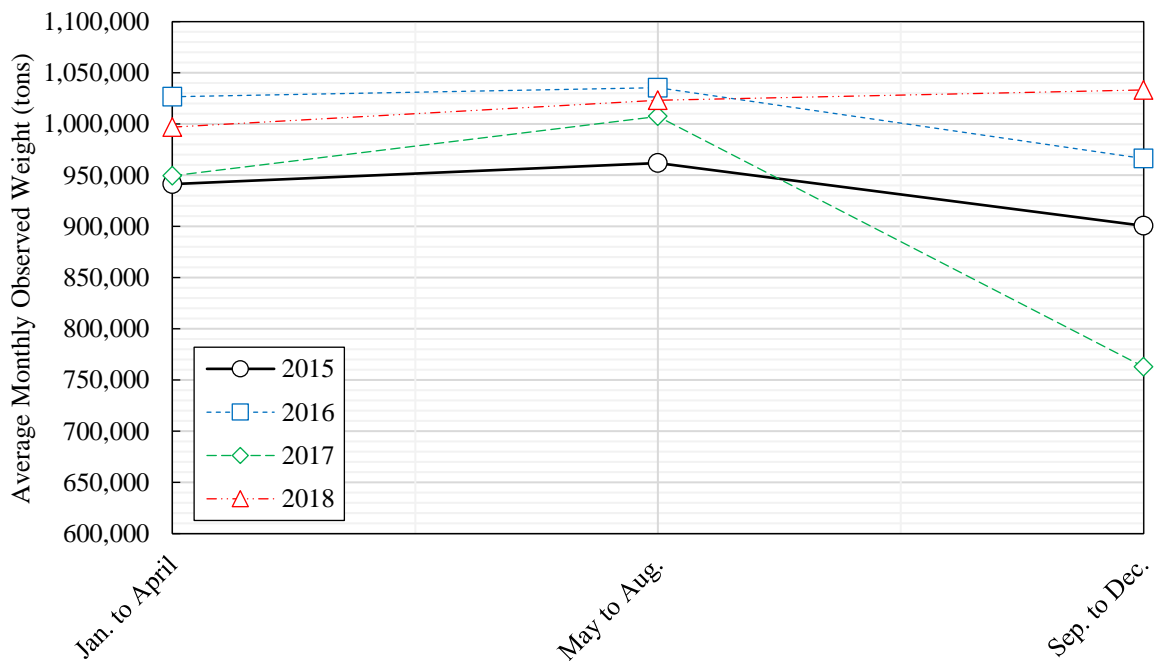


Figure 78: Seasonal Weight Trends by Year at Cascade Locks (EB) WIM Station for ODOT Class 11 Trucks

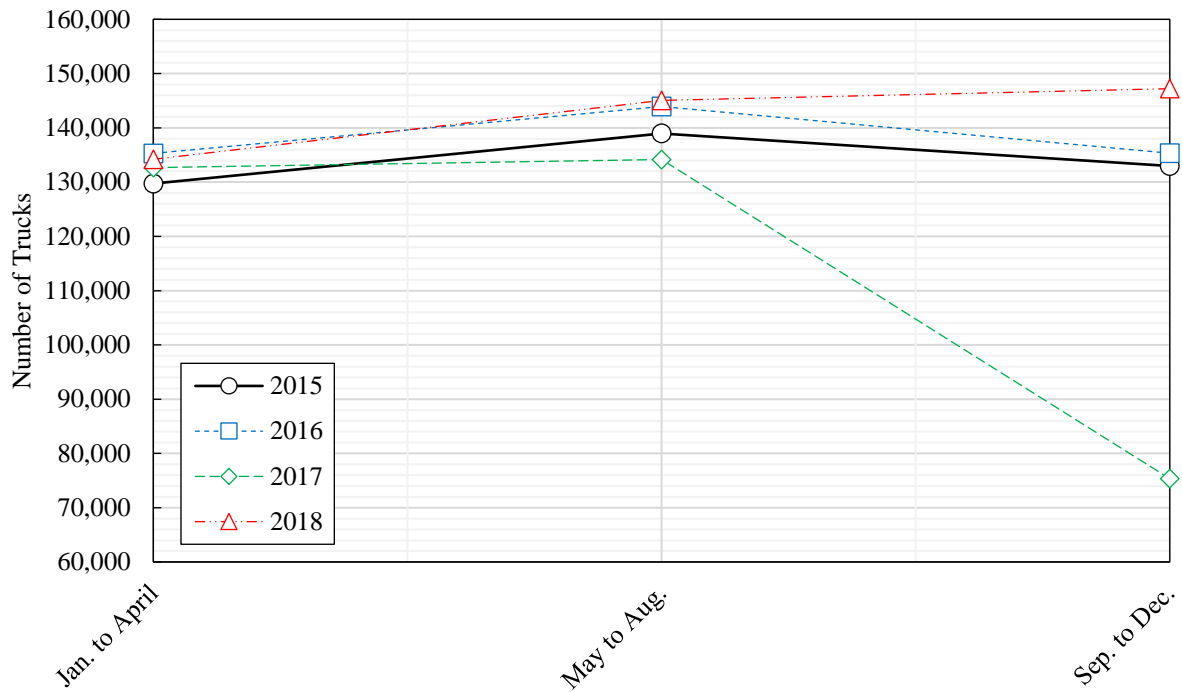


Figure 79: Seasonal Volume Trends by Year at Wyeth (WB) WIM Station for ODOT Class 11 Trucks

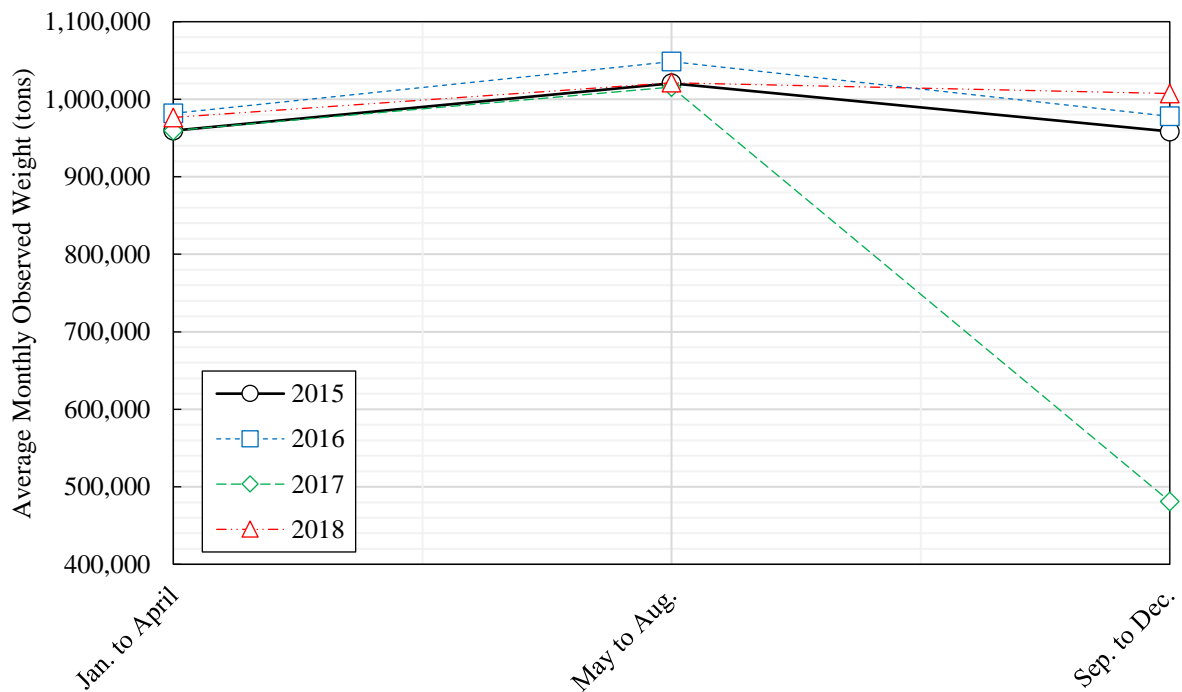


Figure 80: Seasonal Weight Trends by Year at Wyeth (WB) WIM Station for ODOT Class 11 Trucks

ODOT Class 12 to ODOT Class 19

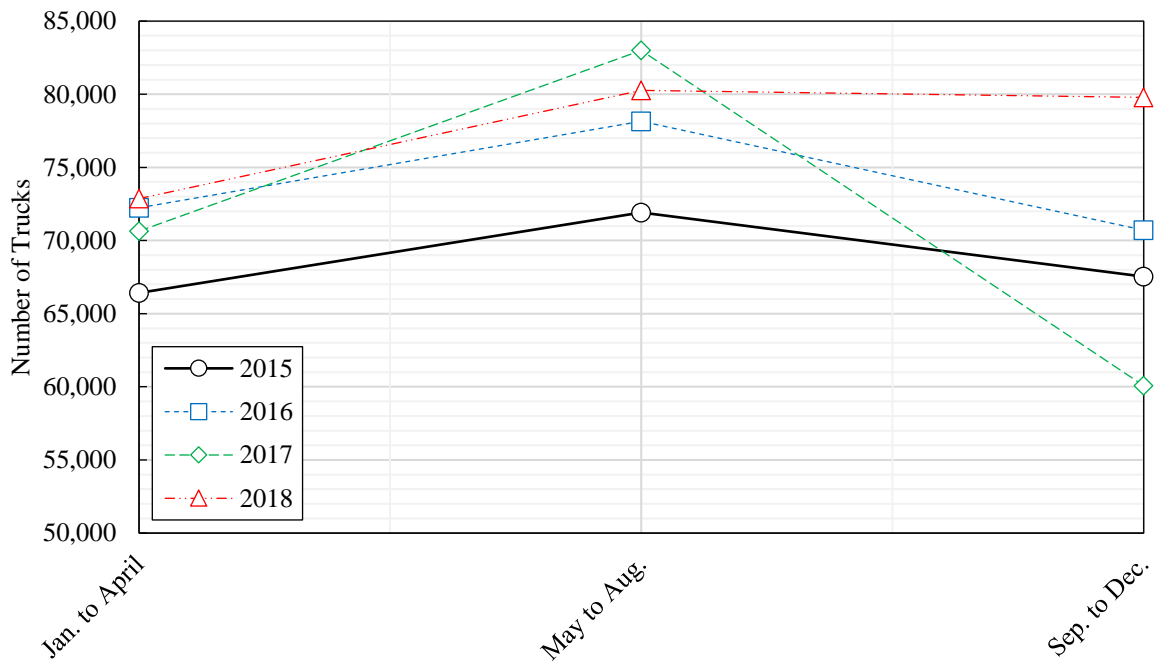


Figure 81: Seasonal Volume Trends by Year at Cascade Locks (EB) WIM Station for ODOT Class 12 to ODOT Class 19 Trucks

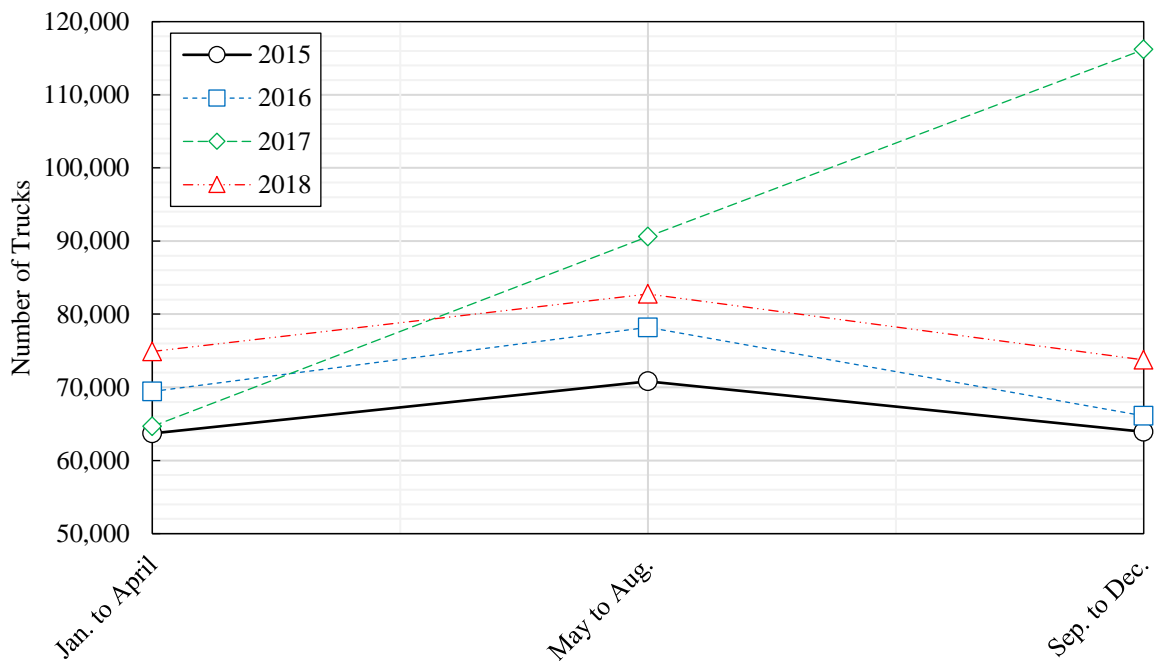


Figure 82: Seasonal Volume Trends by Year at Wyeth (WB) WIM Station for ODOT Class 12 to ODOT Class 19 Trucks

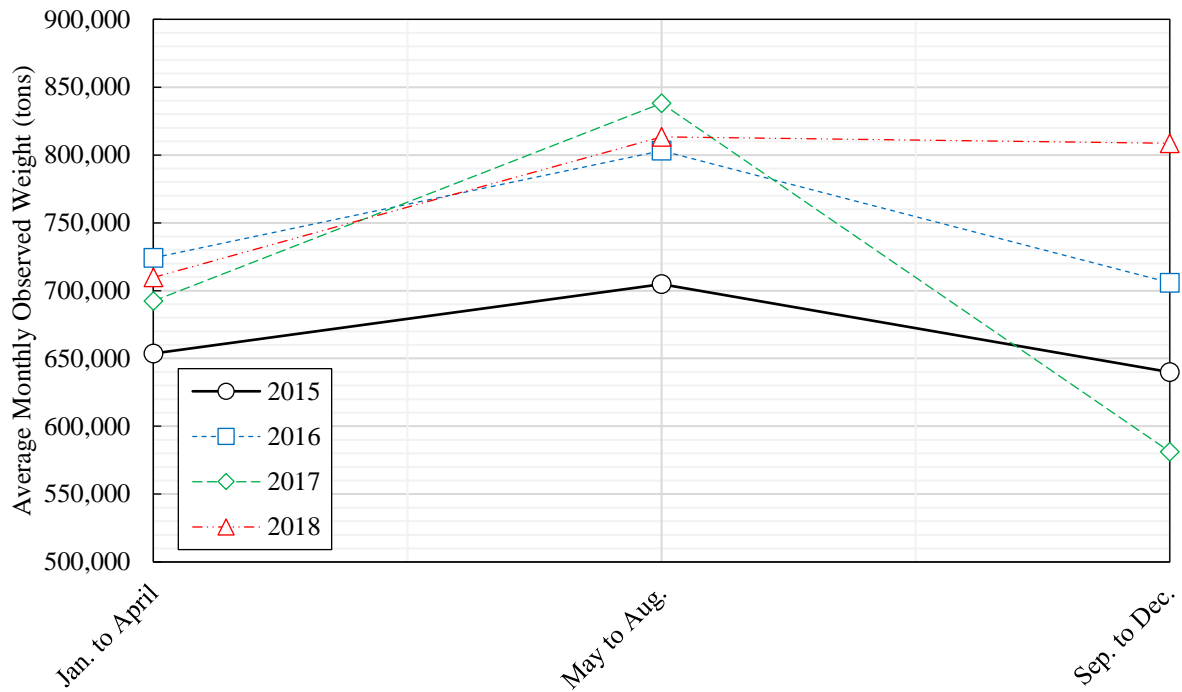


Figure 83: Seasonal Weight Trends by Year at Cascade Locks (EB) WIM Station for ODOT Class 12 to ODOT Class 19 Trucks

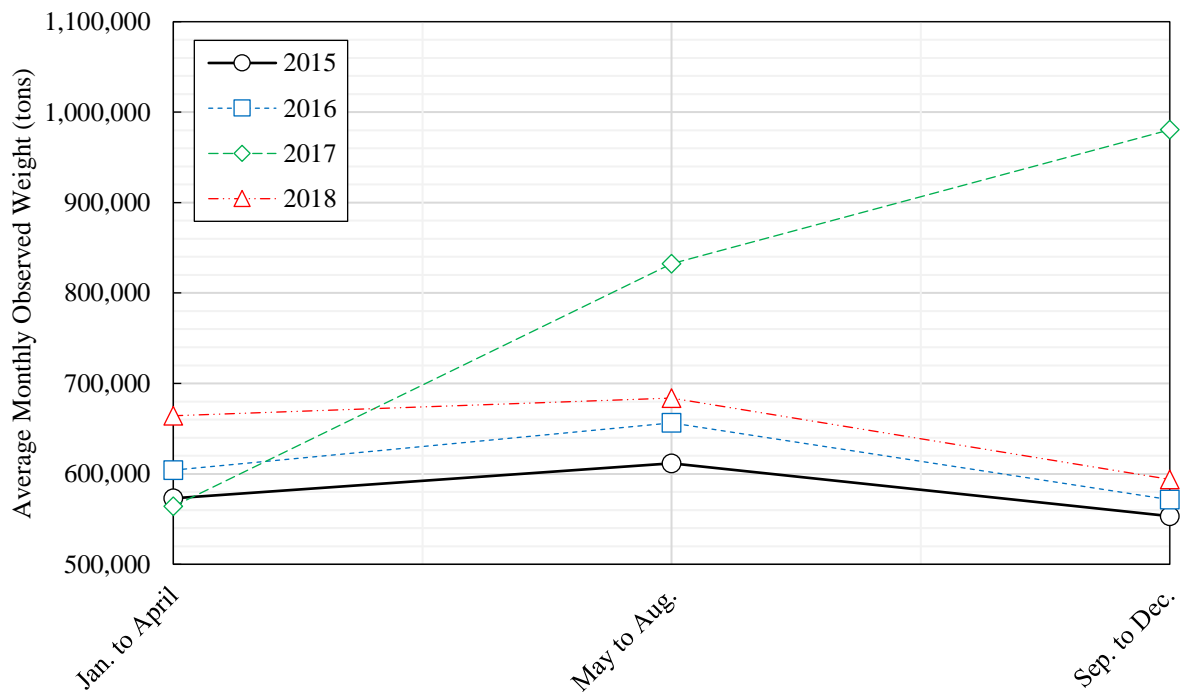


Figure 84: Seasonal Weight Trends by Year at Wyeth (WB) WIM Station for ODOT Class 12 to ODOT Class 19 Trucks

All Trucks (ODOT Class 03 to ODOT Class 19, Excluding Class 04 and Class 07)

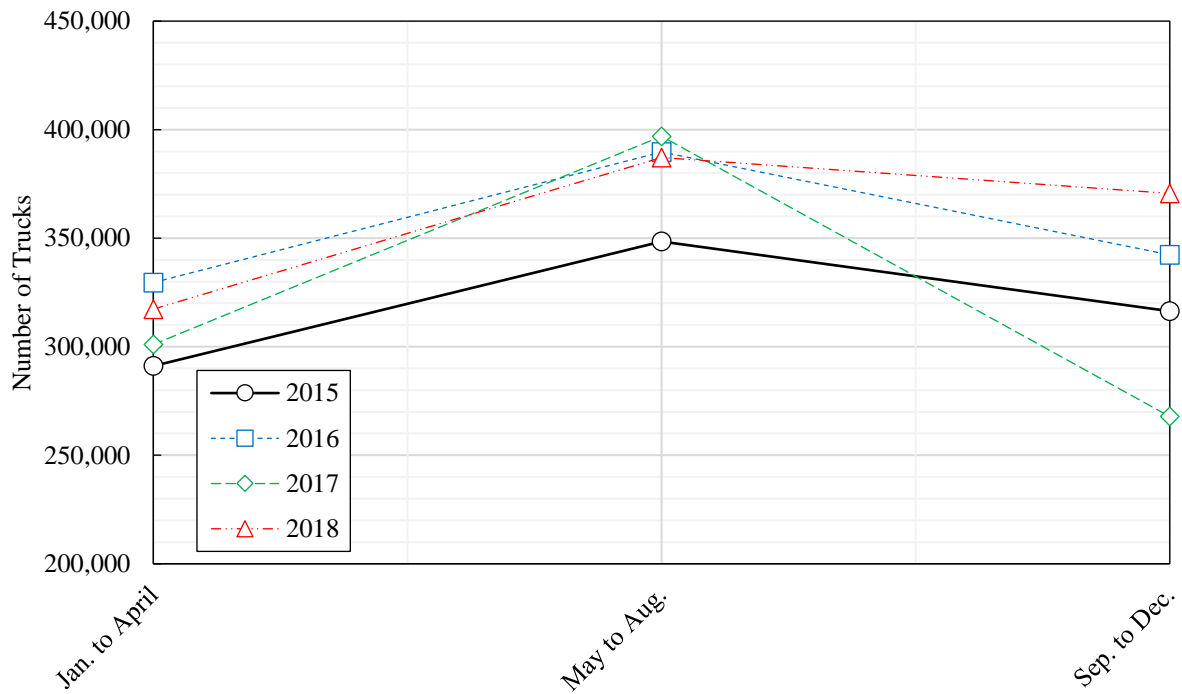


Figure 85: Seasonal Volume Trends by Year at Cascade Locks (EB) WIM Station for All Trucks

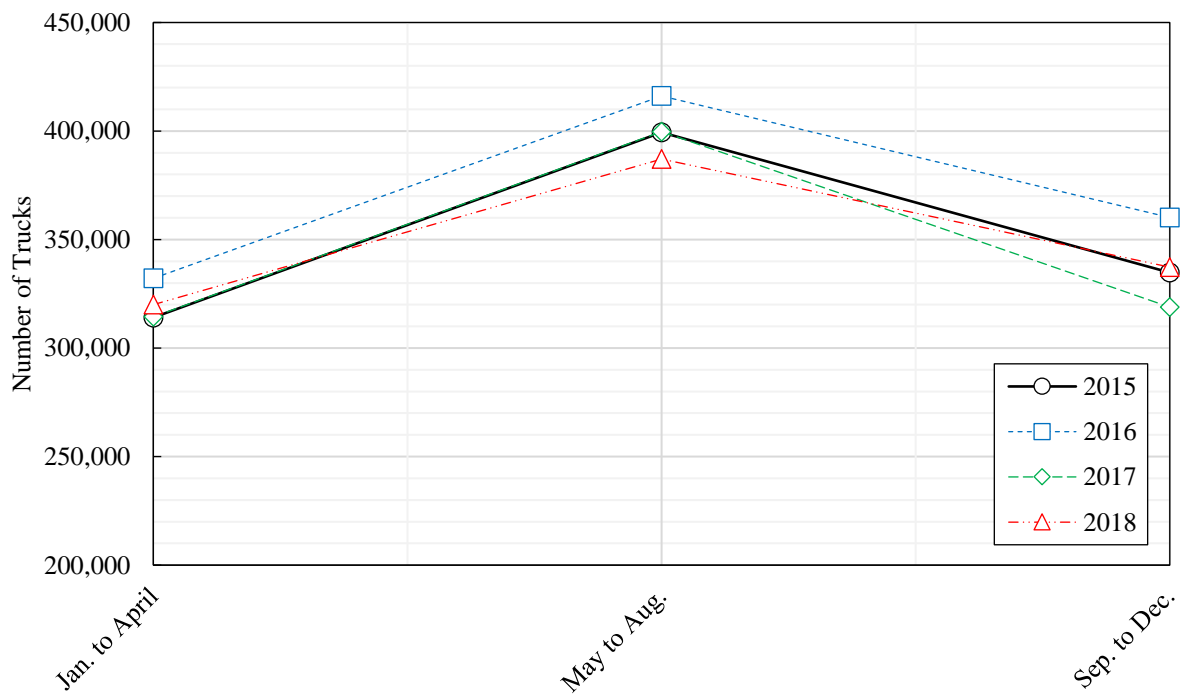


Figure 86: Seasonal Volume Trends by Year at Wyeth (WB) WIM Station for All Trucks

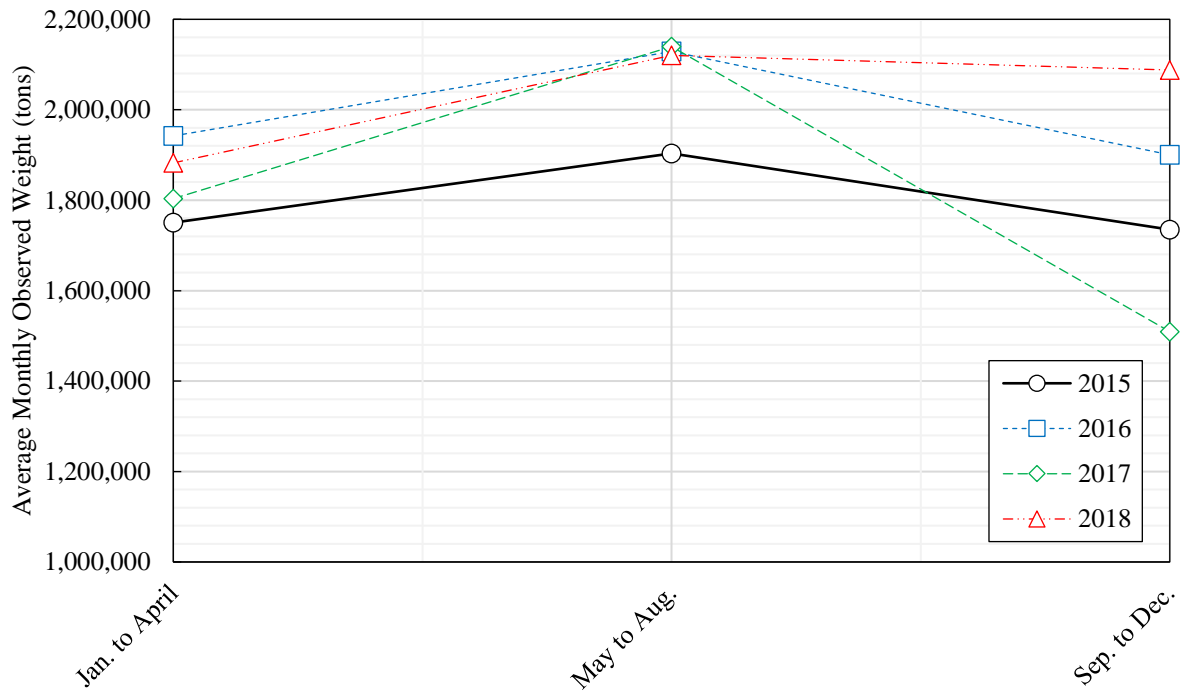


Figure 87: Seasonal Weight Trends by Year at Cascade Locks (EB) WIM Station for All Trucks

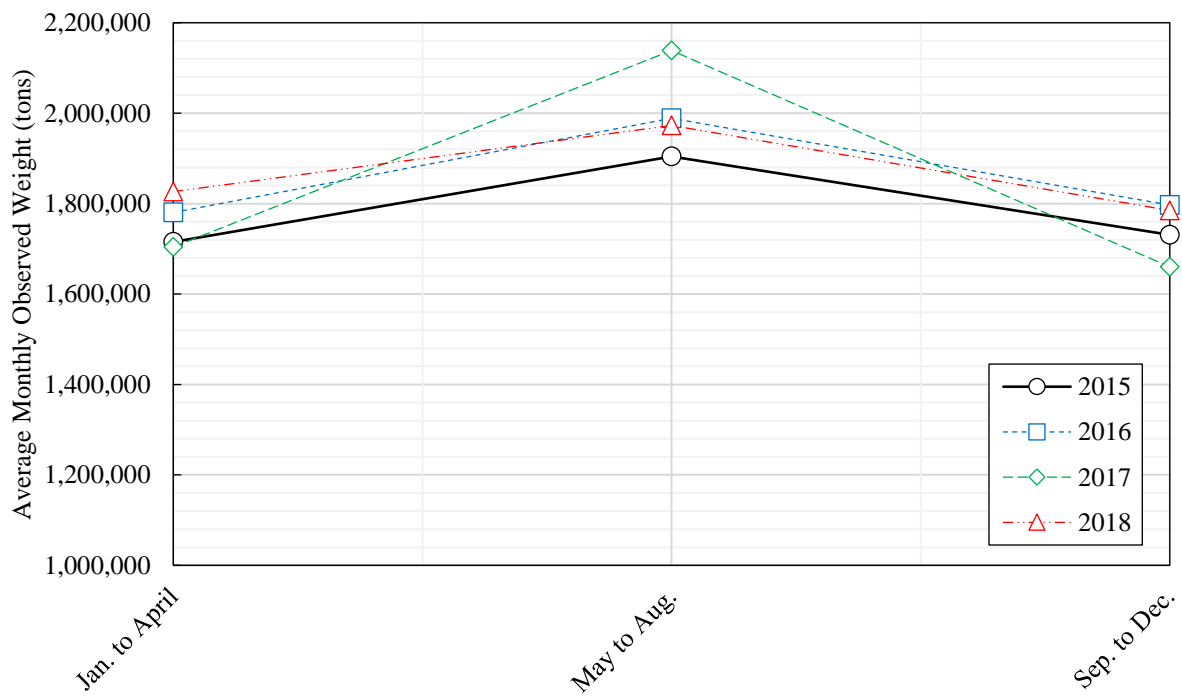


Figure 88: Seasonal Weight Trends by Year at Wyeth (WB) WIM Station for All Trucks

Olds Ferry (EB) and Farewell Bend (WB) WIM Stations

Seasonal trends are presented by truck classification group and begin on the following page.

ODOT Class 03 to ODOT Class 10

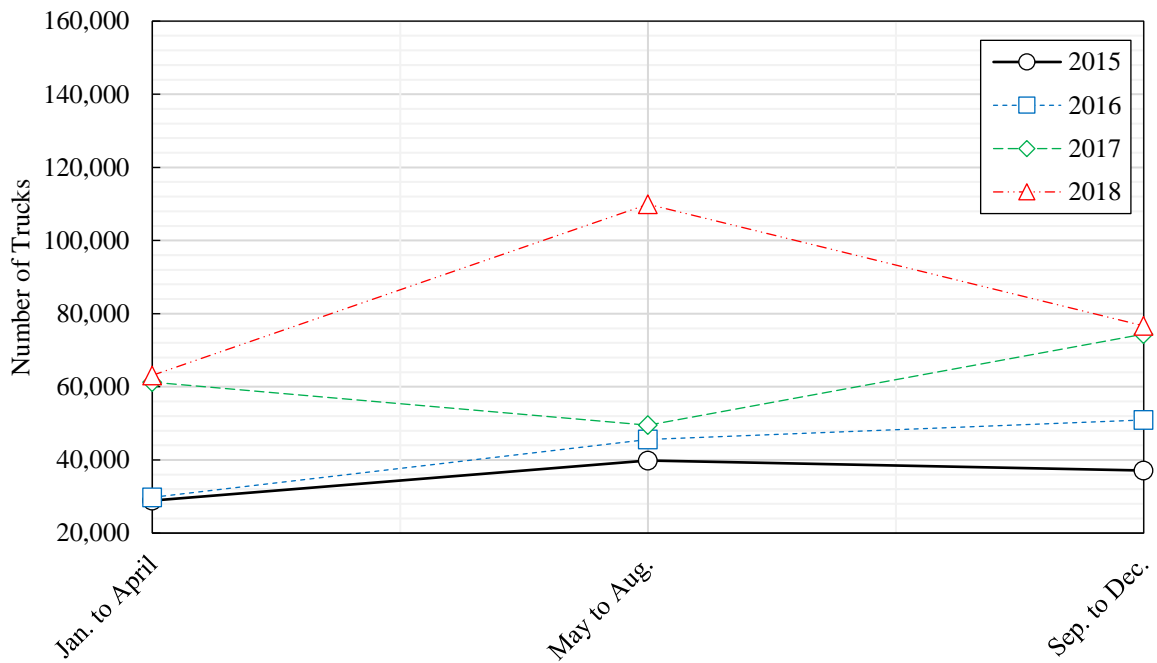


Figure 89: Seasonal Volume Trends by Year at Olds Ferry (EB) WIM Station for ODOT Class 03 to ODOT Class 10 Trucks

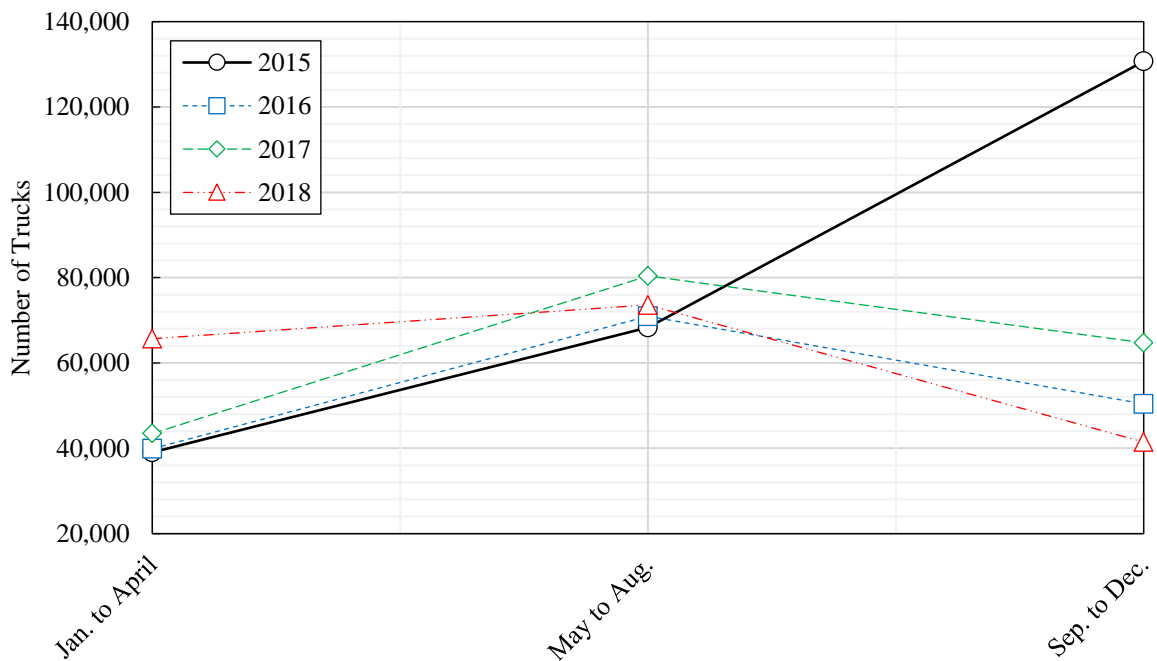


Figure 90: Seasonal Volume Trends by Year at Farewell Bend (WB) WIM Station for ODOT Class 03 to ODOT Class 10 Trucks

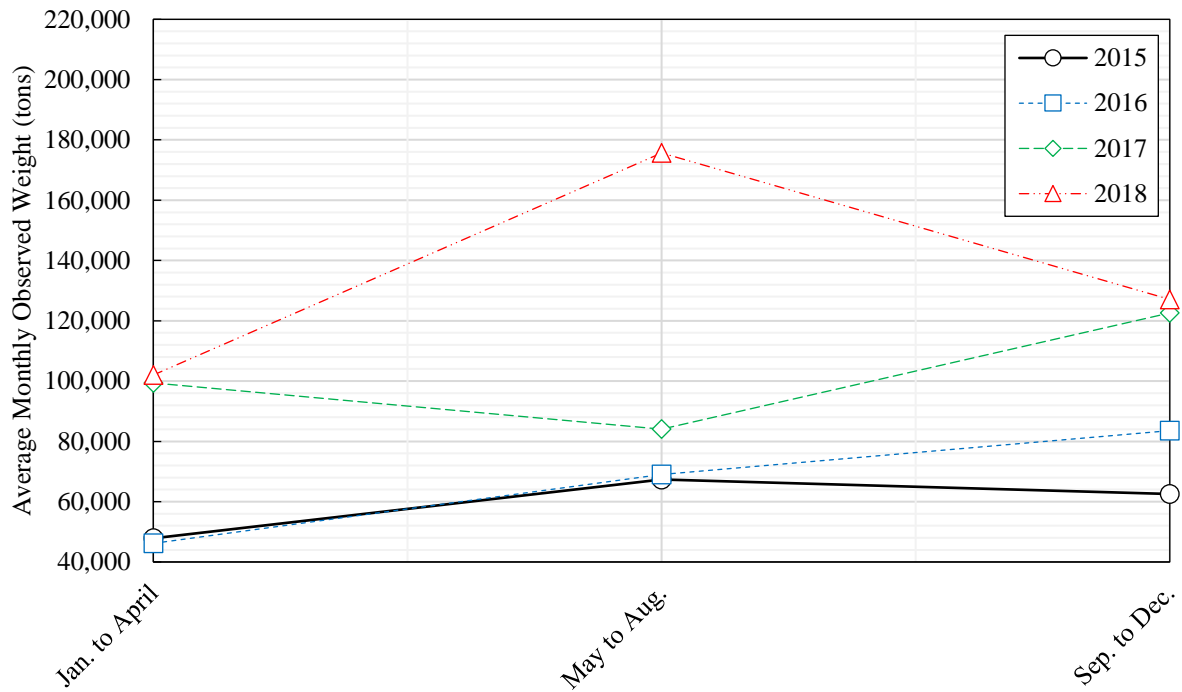


Figure 91: Seasonal Weight Trends by Year at Olds Ferry (EB) WIM Station for ODOT Class 03 to ODOT Class 10 Trucks

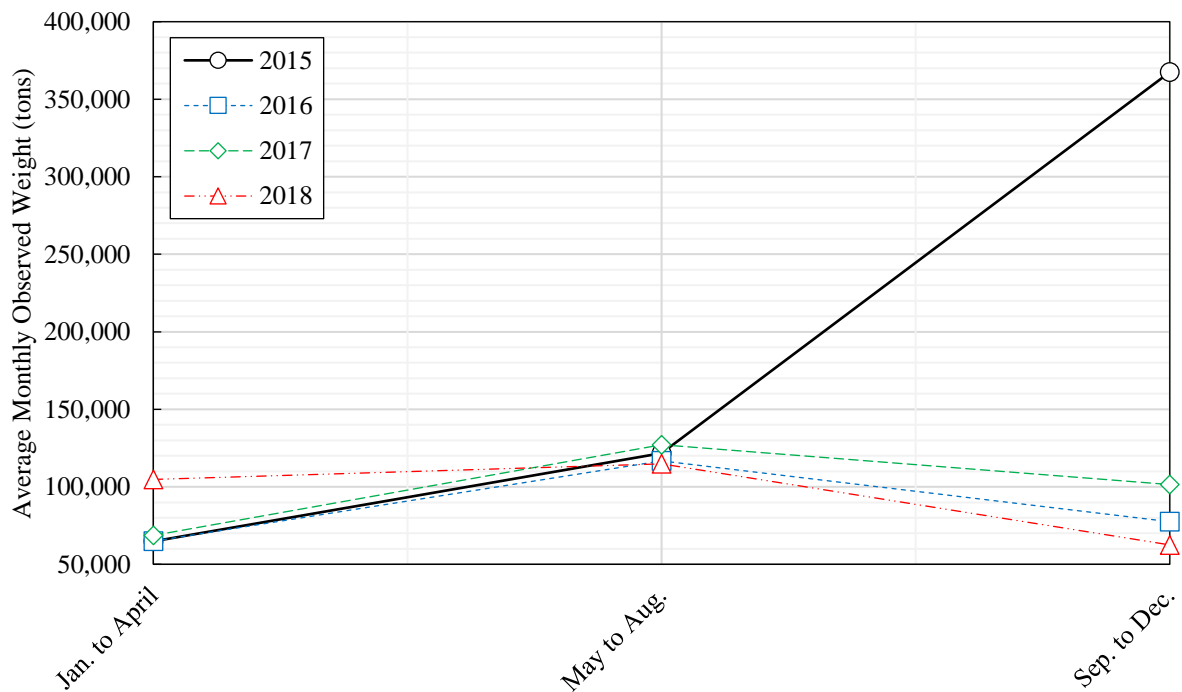


Figure 92: Seasonal Weight Trends by Year at Farewell Bend (WB) WIM Station for ODOT Class 03 to ODOT Class 10 Trucks

ODOT Class 11

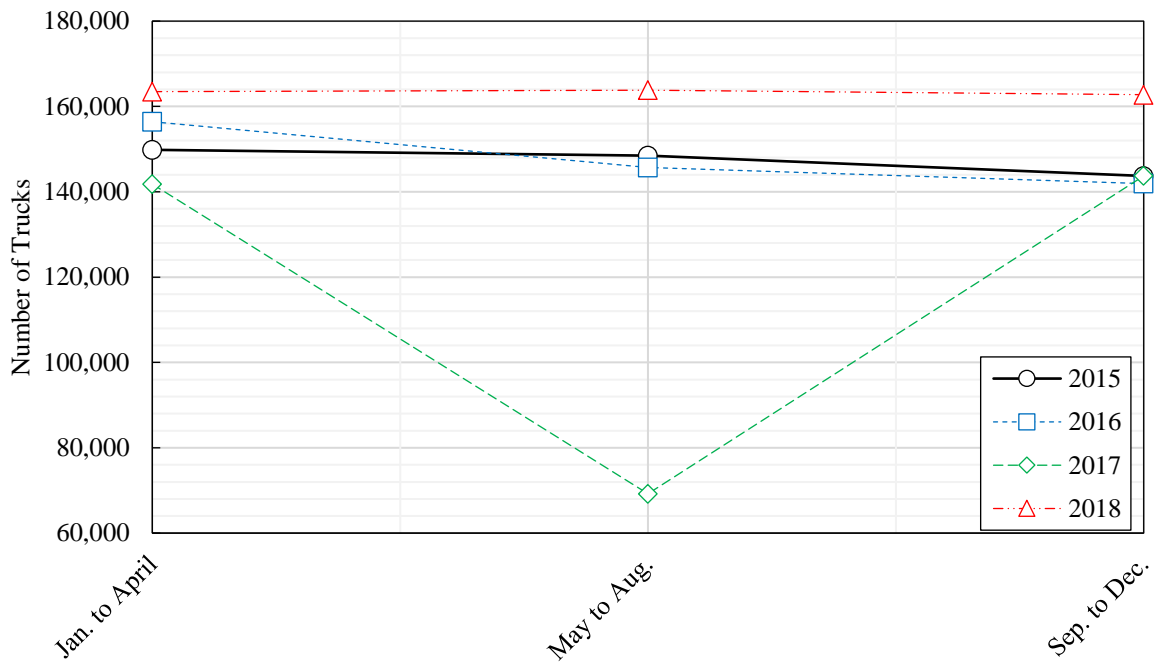


Figure 93: Seasonal Volume Trends by Year at Olds Ferry (EB) WIM Station for ODOT Class 11 Trucks

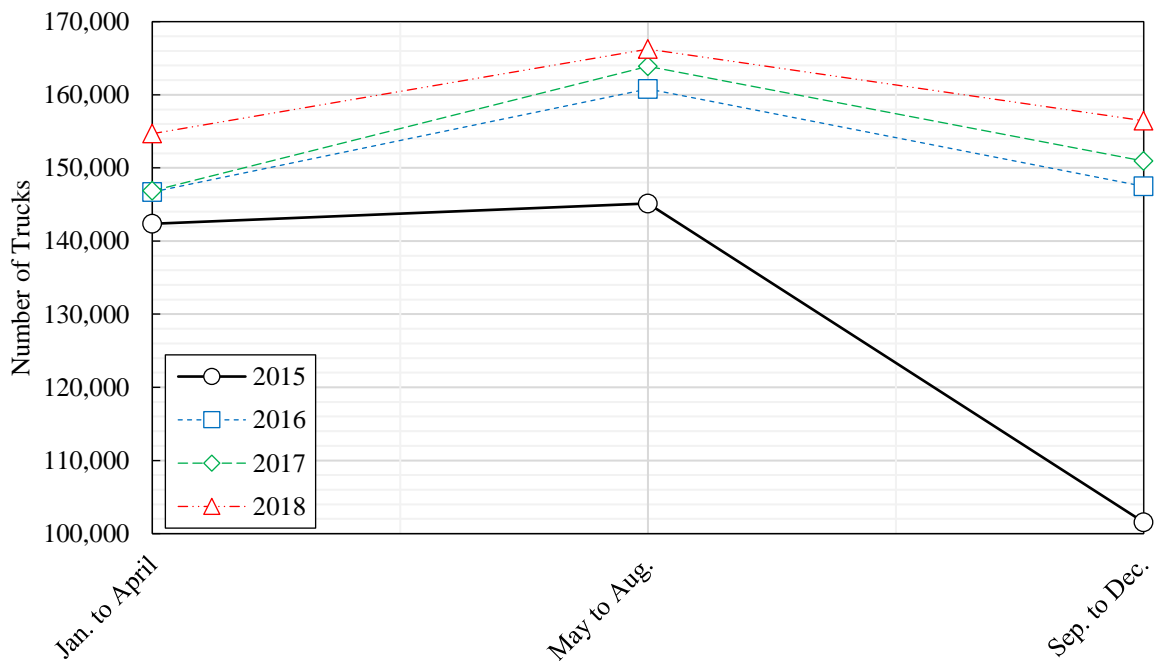


Figure 94: Seasonal Volume Trends by Year at Farewell Bend (WB) WIM Station for ODOT Class 11 Trucks

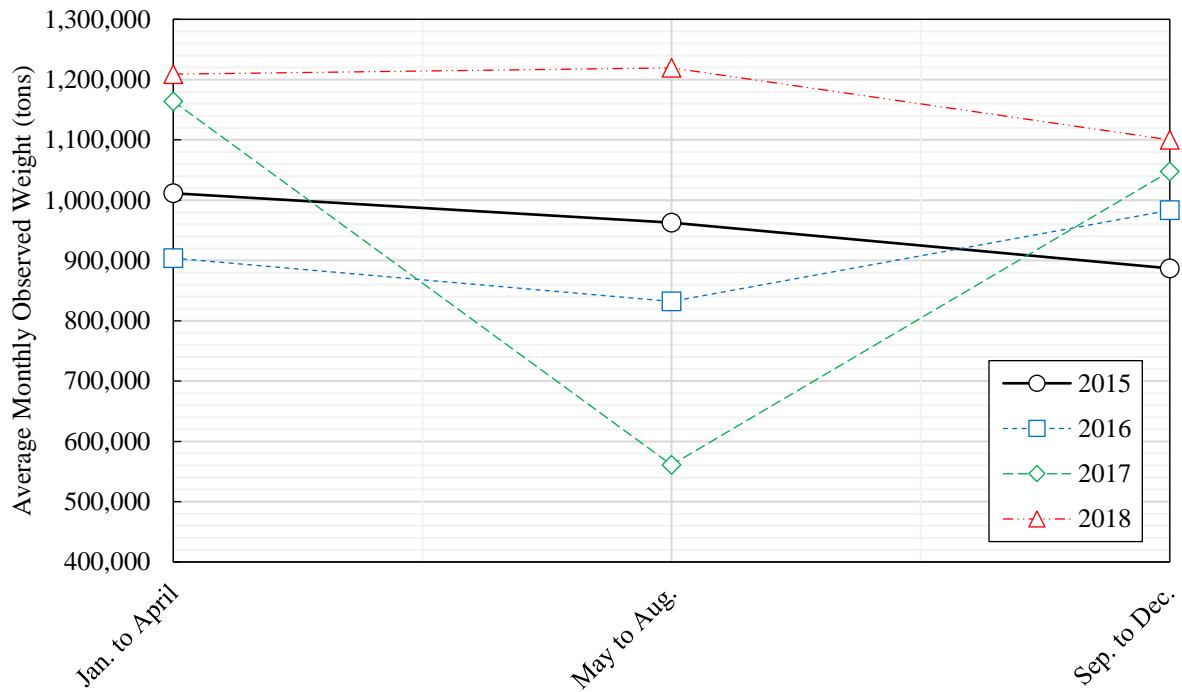


Figure 95: Seasonal Weight Trends by Year at Olds Ferry (EB) WIM Station for ODOT Class 11 Trucks

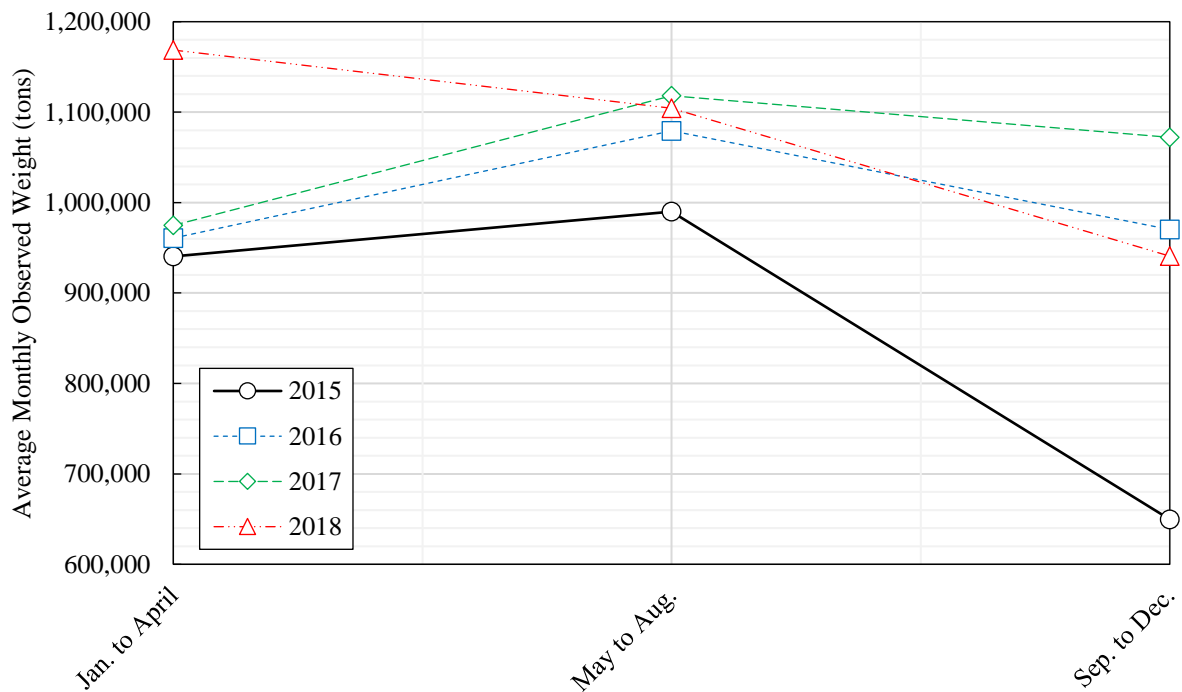


Figure 96: Seasonal Weight Trends by Year at Farewell Bend (WB) WIM Station for ODOT Class 11 Trucks

ODOT Class 12 to ODOT Class 19

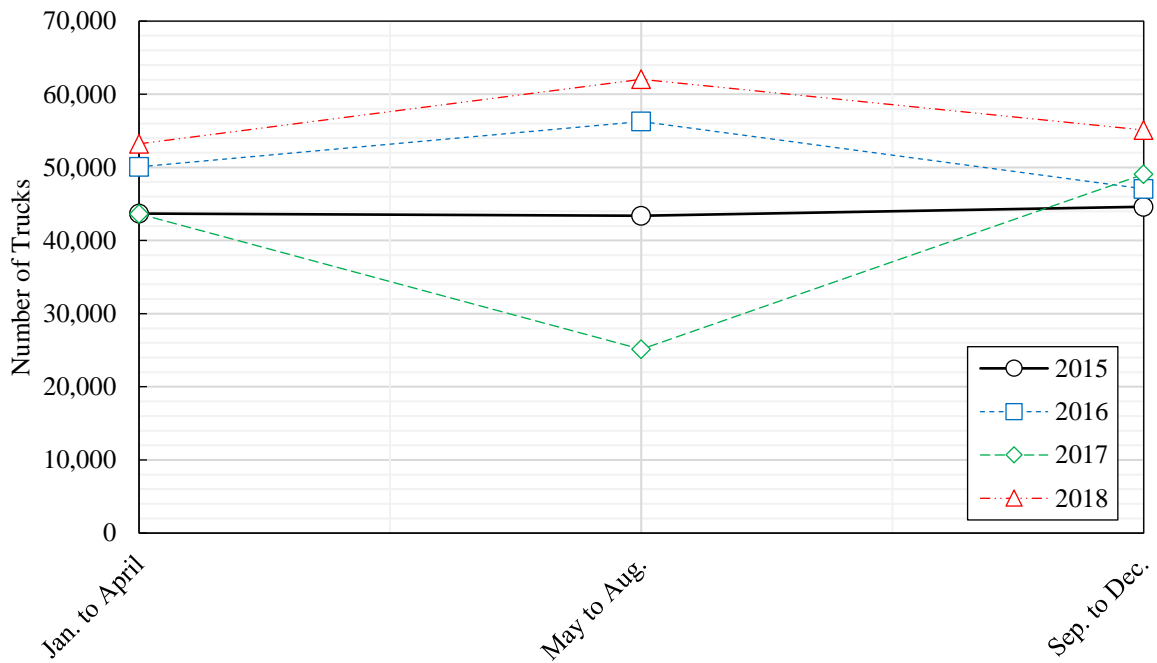


Figure 97: Seasonal Volume Trends by Year at Olds Ferry (EB) WIM Station for ODOT Class 12 to ODOT Class 19 Trucks

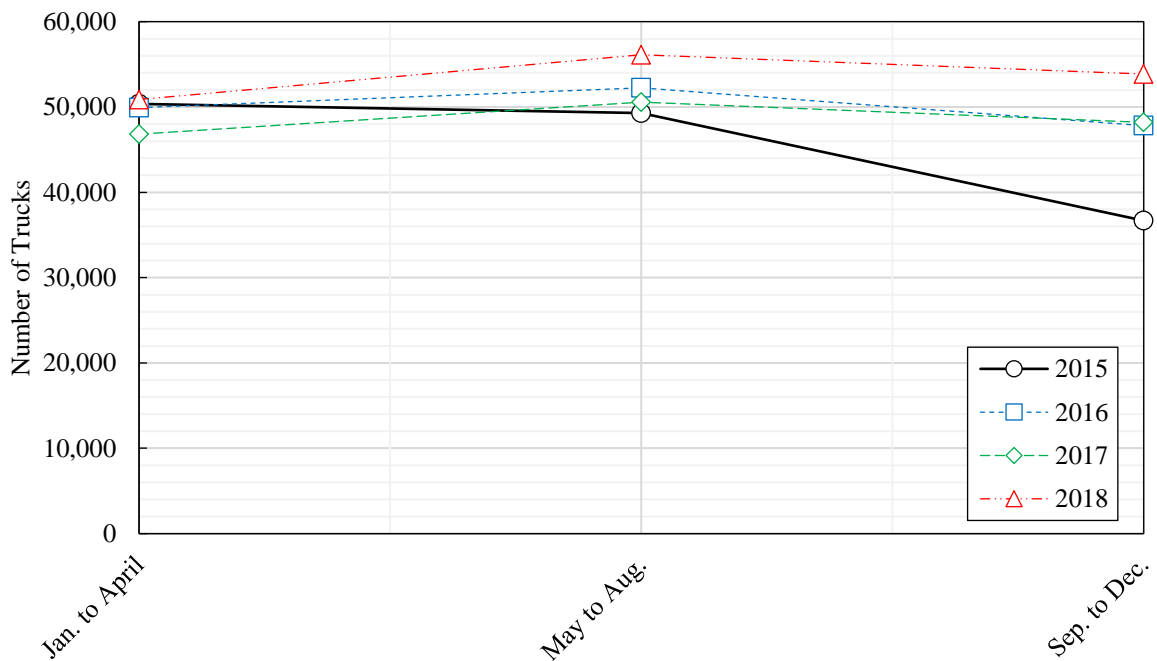


Figure 98: Seasonal Volume Trends by Year at Farewell Bend (WB) WIM Station for ODOT Class 12 to ODOT Class 19 Trucks

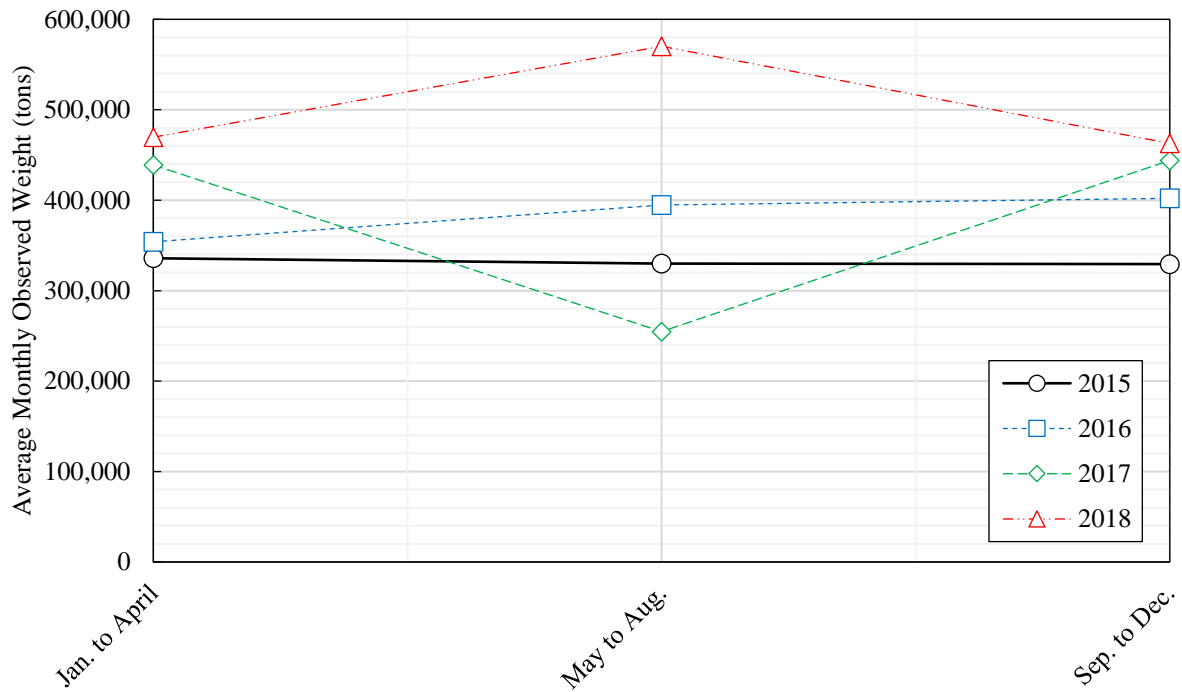


Figure 99: Seasonal Weight Trends by Year at Olds Ferry (EB) WIM Station for ODOT Class 12 to ODOT Class 19 Trucks

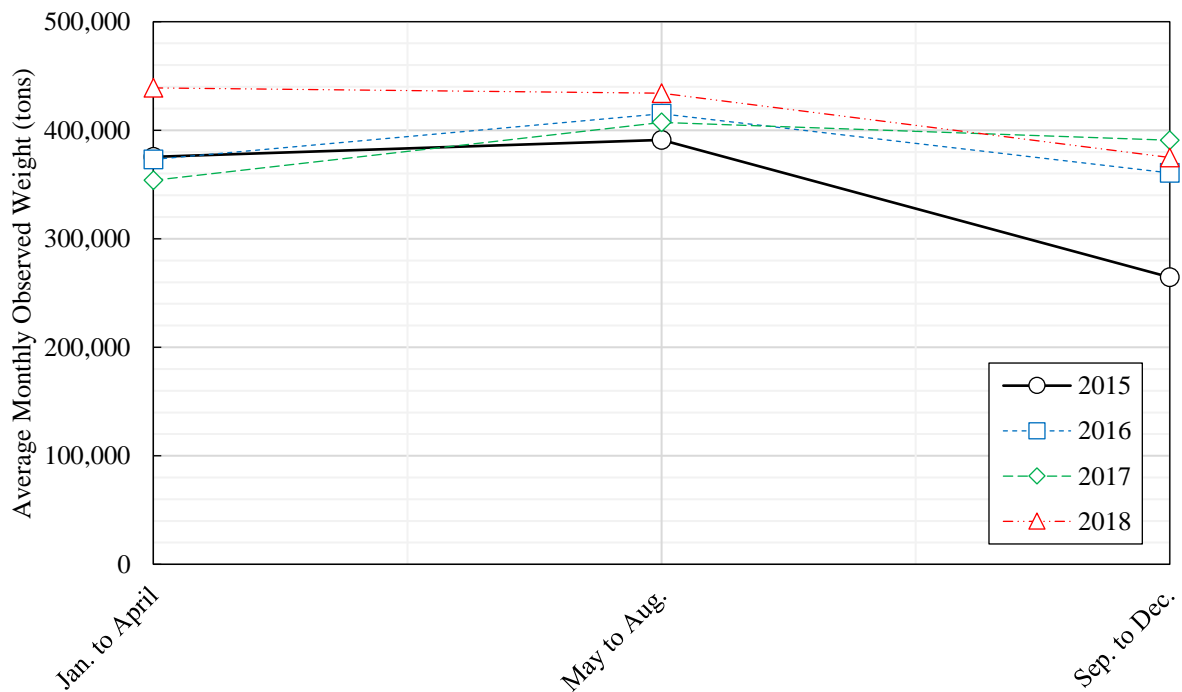


Figure 100: Seasonal Weight Trends by Year at Farewell Bend (WB) WIM Station for ODOT Class 12 to ODOT Class 19 Trucks

All Trucks (ODOT Class 03 to ODOT Class 19, Excluding Class 04 and Class 07)

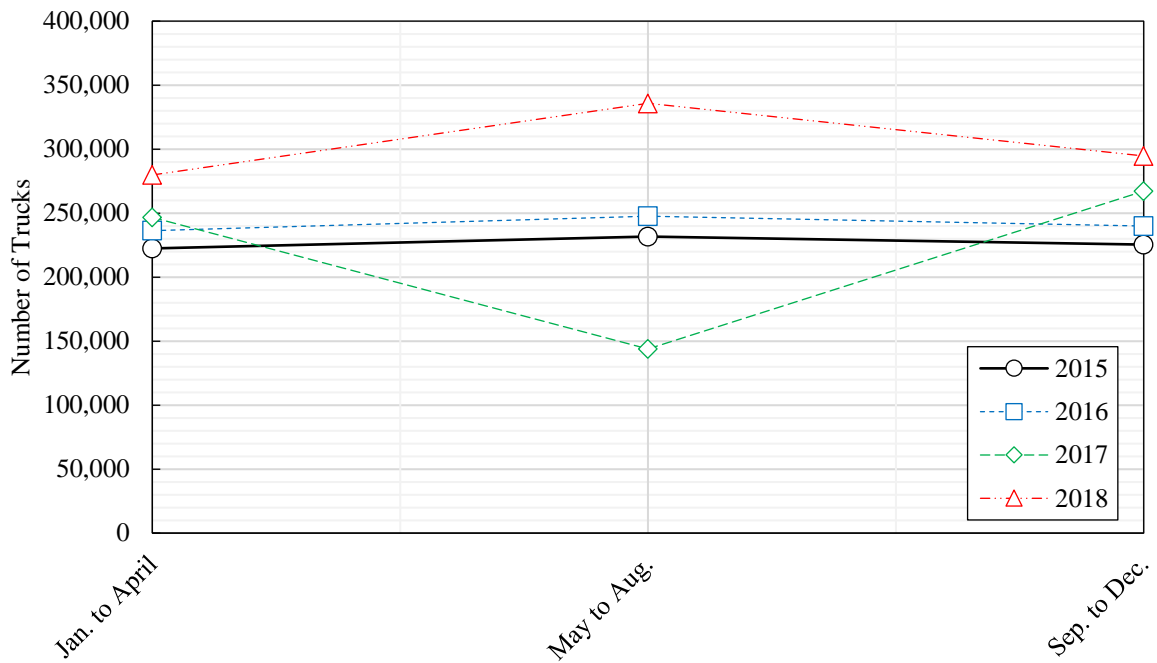


Figure 101: Seasonal Volume Trends by Year at Olds Ferry (EB) WIM Station for All Trucks

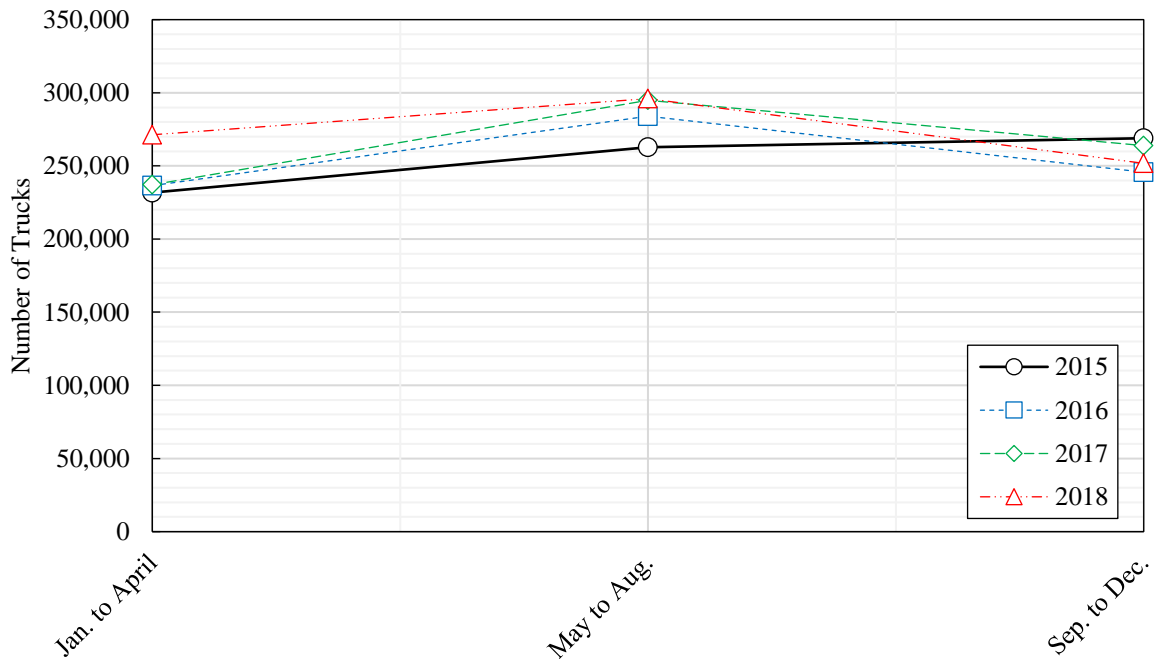


Figure 102: Seasonal Volume Trends by Year at Farewell Bend (WB) WIM Station for All Trucks

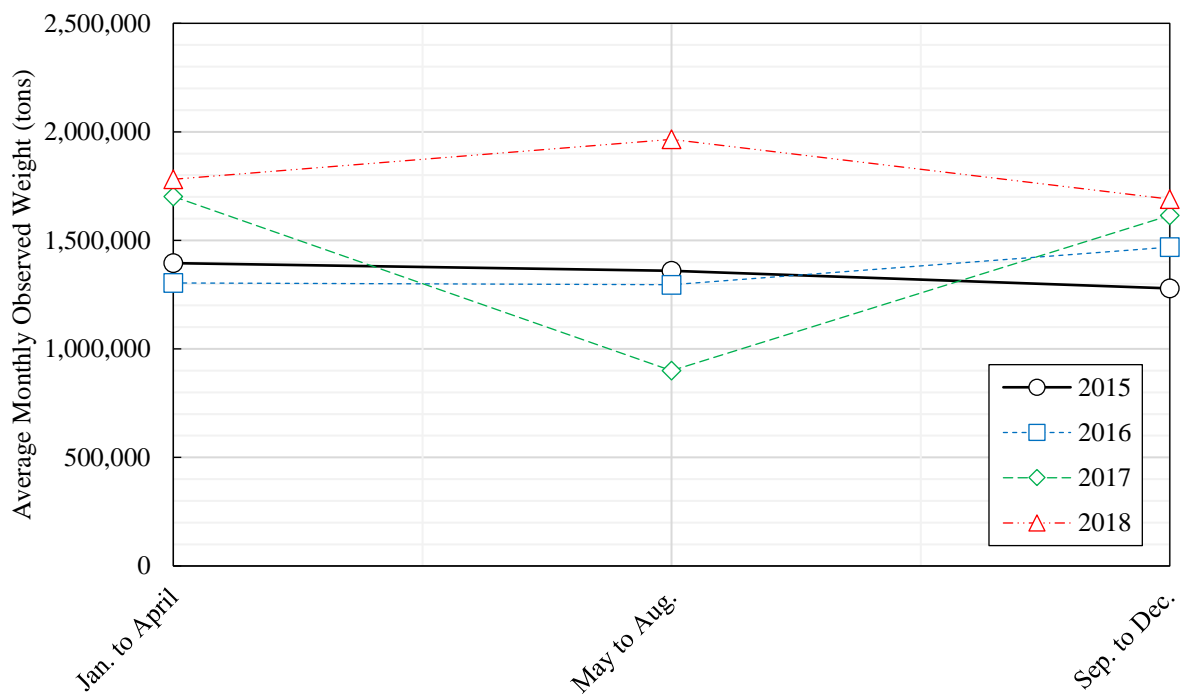


Figure 103: Seasonal Weight Trends by Year at Olds Ferry (EB) WIM Station for All Trucks

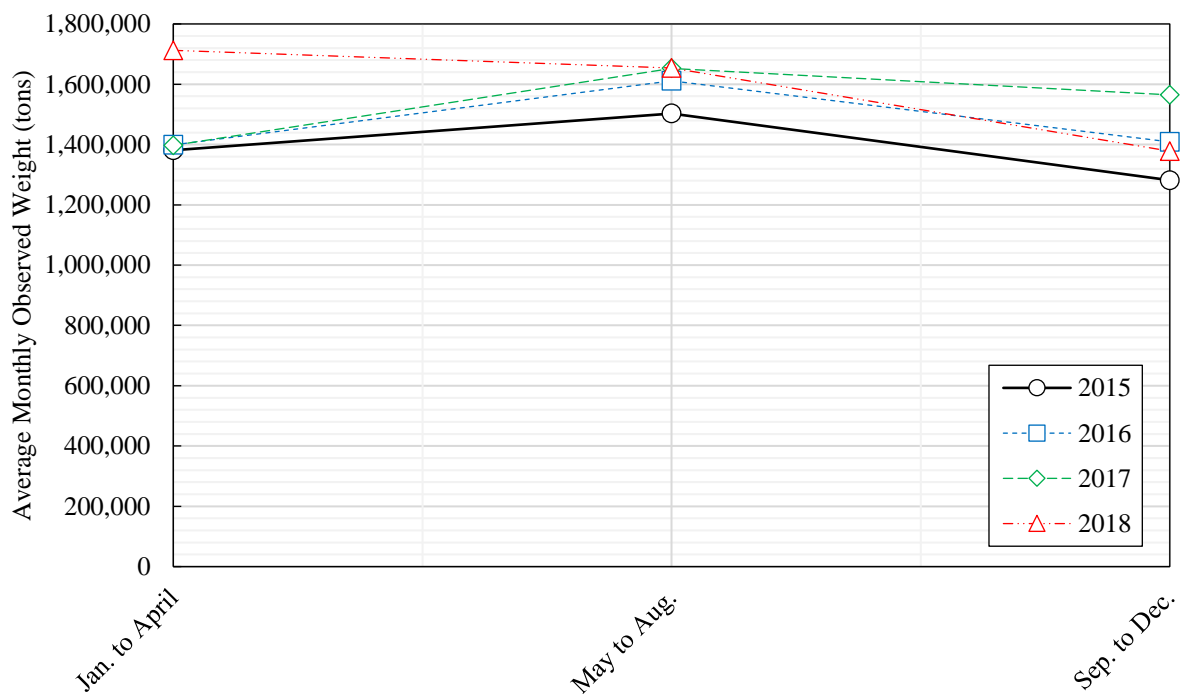


Figure 104: Seasonal Weight Trends by Year at Farewell Bend (WB) WIM Station for All Trucks

Klamath Falls WIM Stations

Seasonal trends are presented by truck classification group and begin on the following page.

ODOT Class 03 to ODOT Class 10

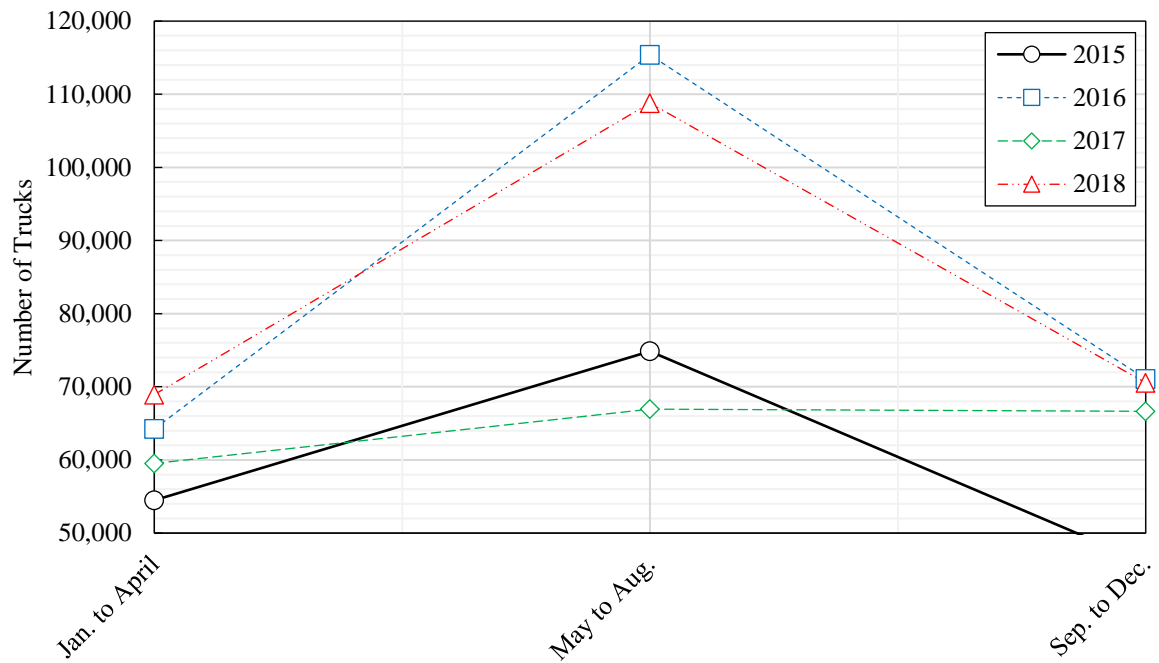


Figure 105: Seasonal Volume Trends by Year at Klamath Falls (NB) WIM Station for ODOT Class 03 to ODOT Class 10 Trucks

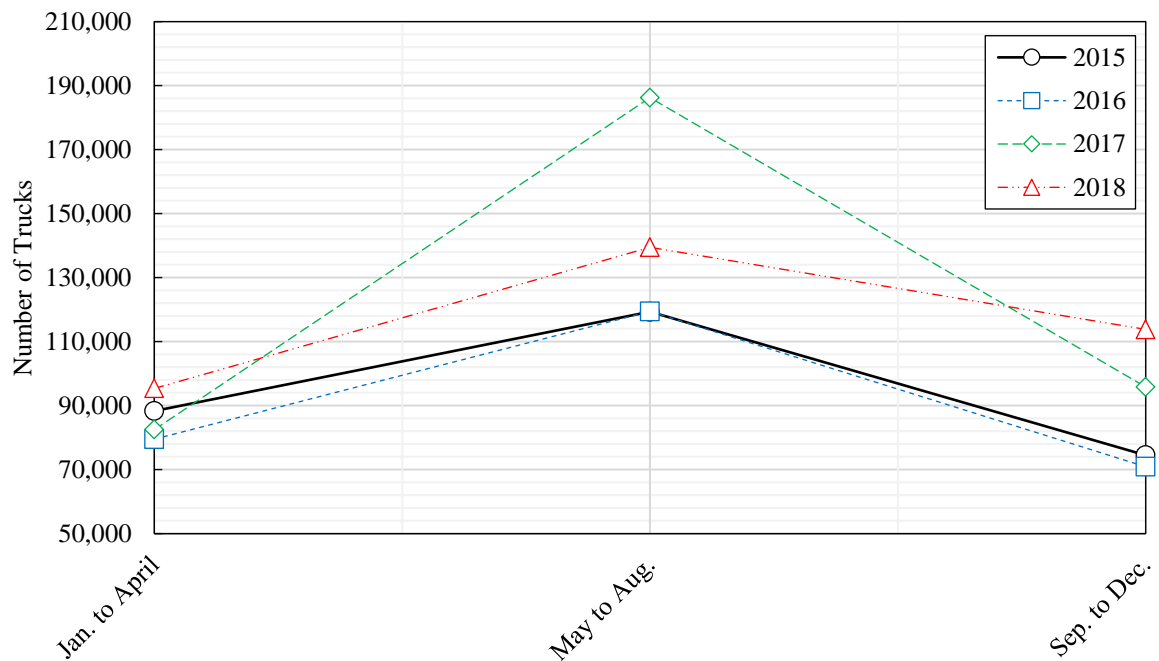


Figure 106: Seasonal Volume Trends by Year at Klamath Falls (SB) WIM Station for ODOT Class 03 to ODOT Class 10 Trucks

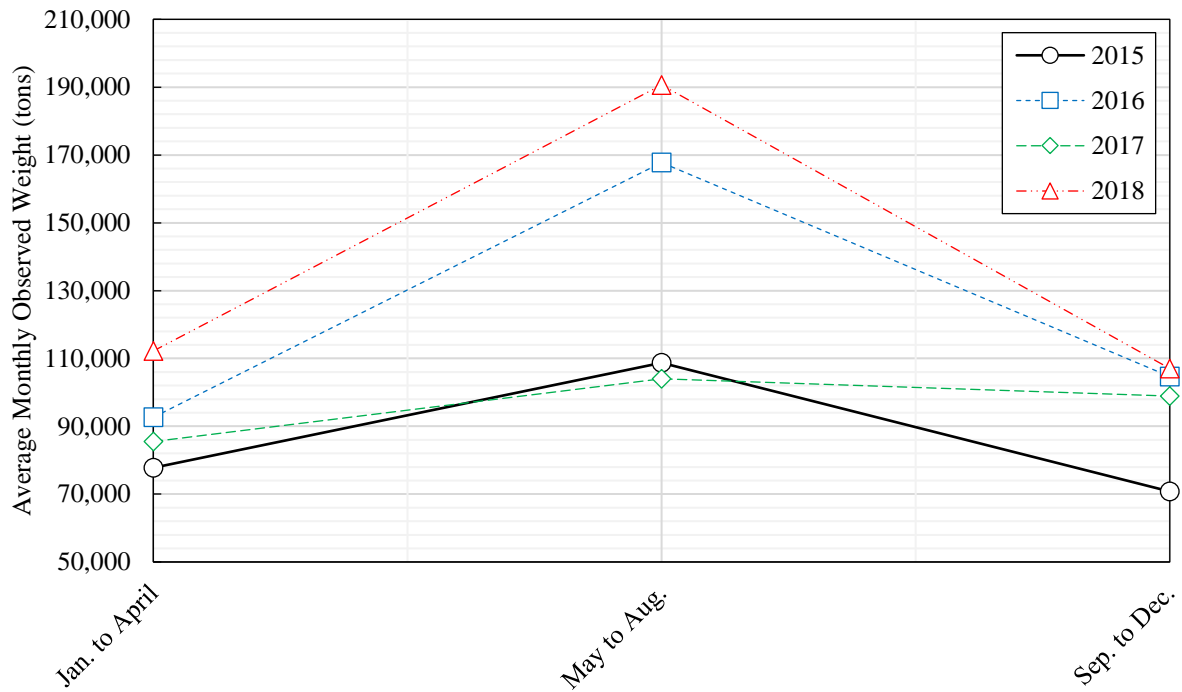


Figure 107: Seasonal Weight Trends by Year at Klamath Falls (NB) WIM Station for ODOT Class 03 to ODOT Class 10 Trucks

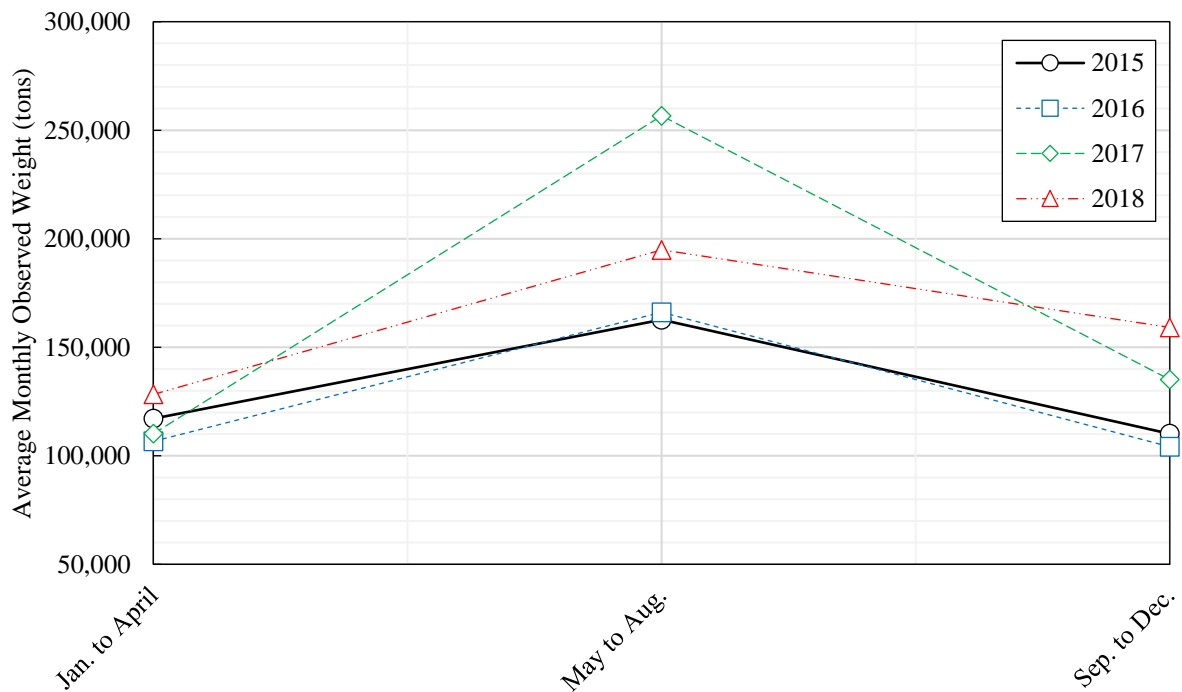


Figure 108: Seasonal Weight Trends by Year at Klamath Falls (SB) WIM Station for ODOT Class 03 to ODOT Class 10 Trucks

ODOT Class 11

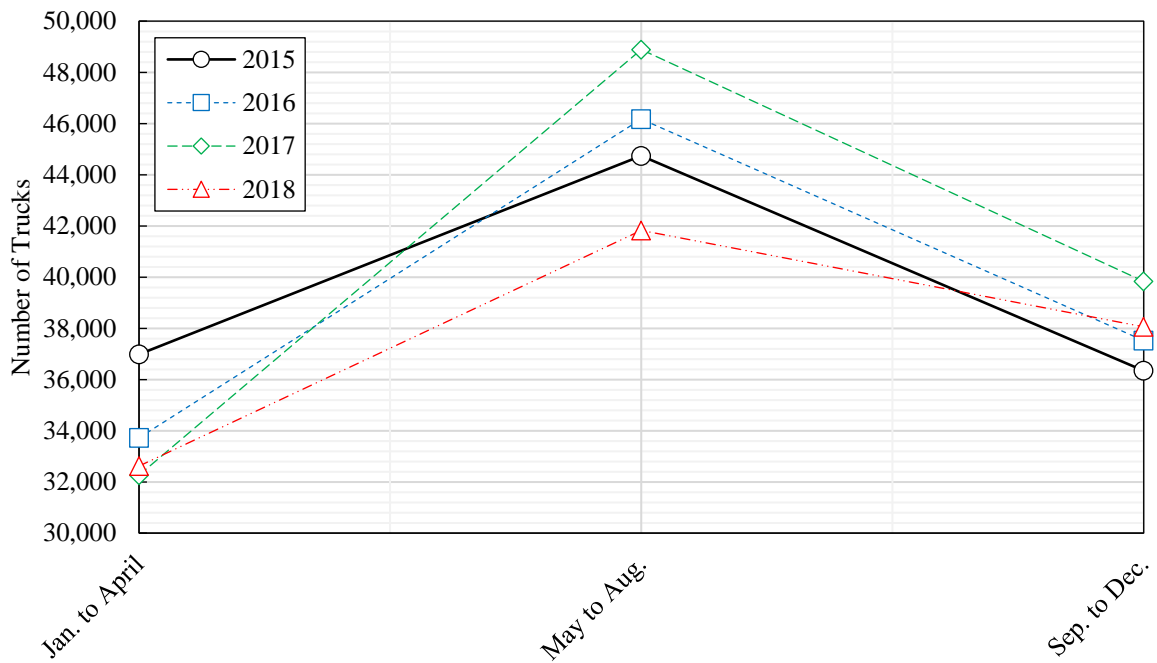


Figure 109: Seasonal Volume Trends by Year at Klamath Falls (NB) WIM Station for ODOT Class 11 Trucks

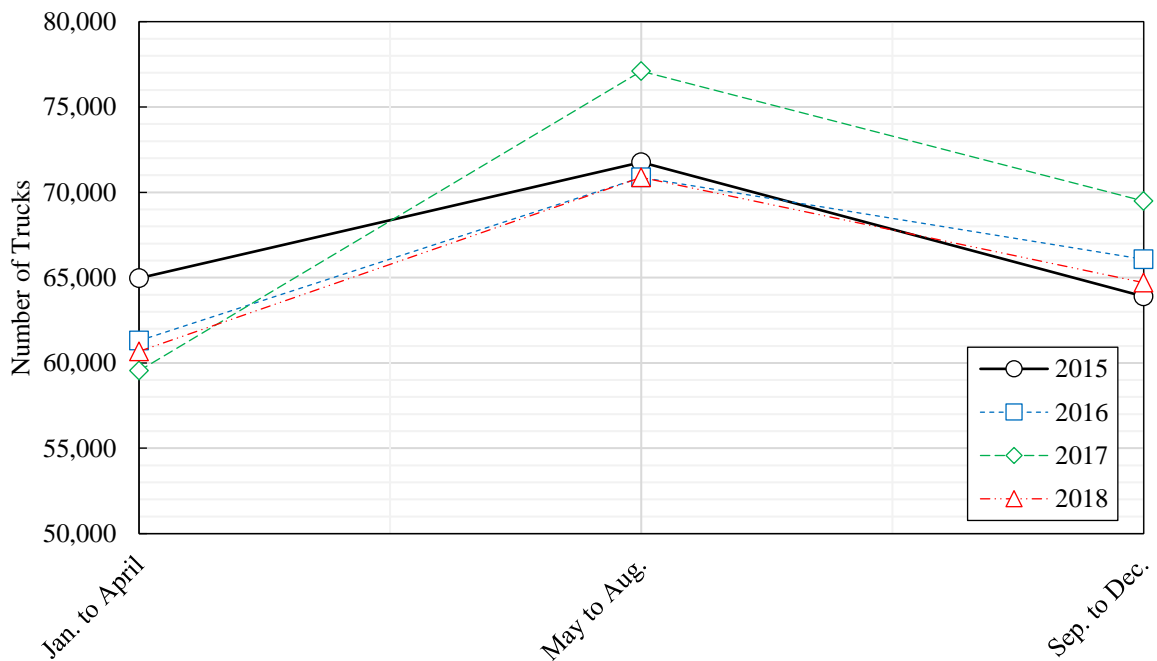


Figure 110: Seasonal Volume Trends by Year at Klamath Falls (SB) WIM Station for ODOT Class 11 Trucks

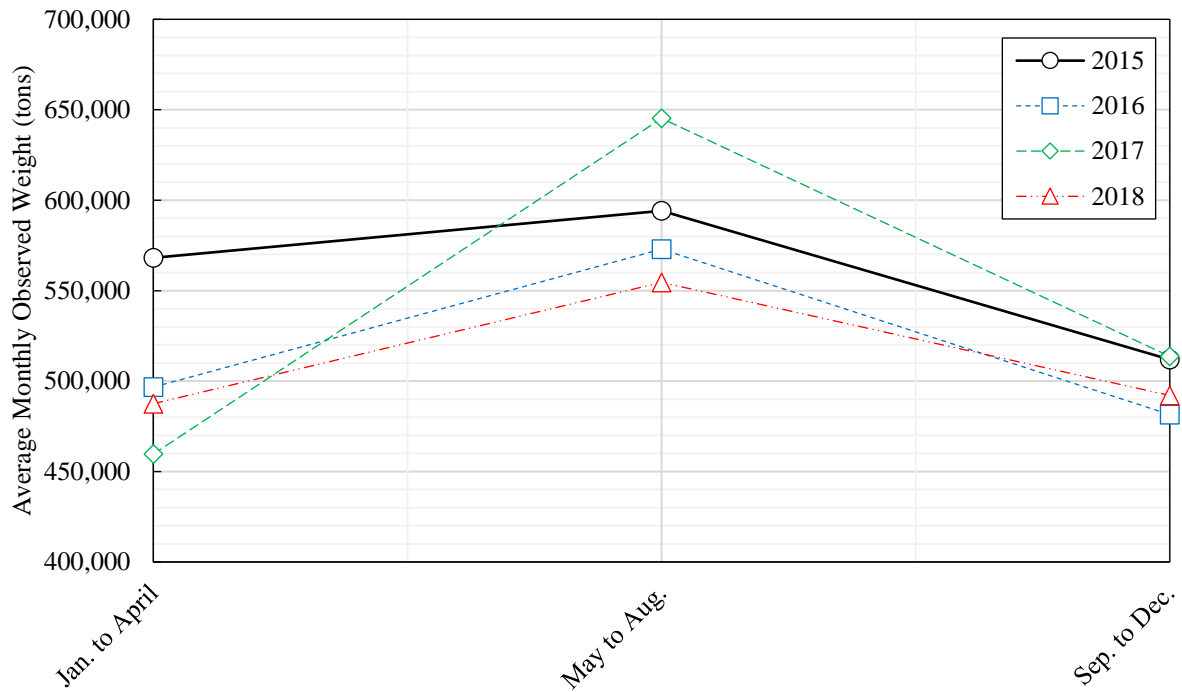


Figure 111: Seasonal Weight Trends by Year at Klamath Falls (SB) WIM Station for ODOT Class 11 Trucks

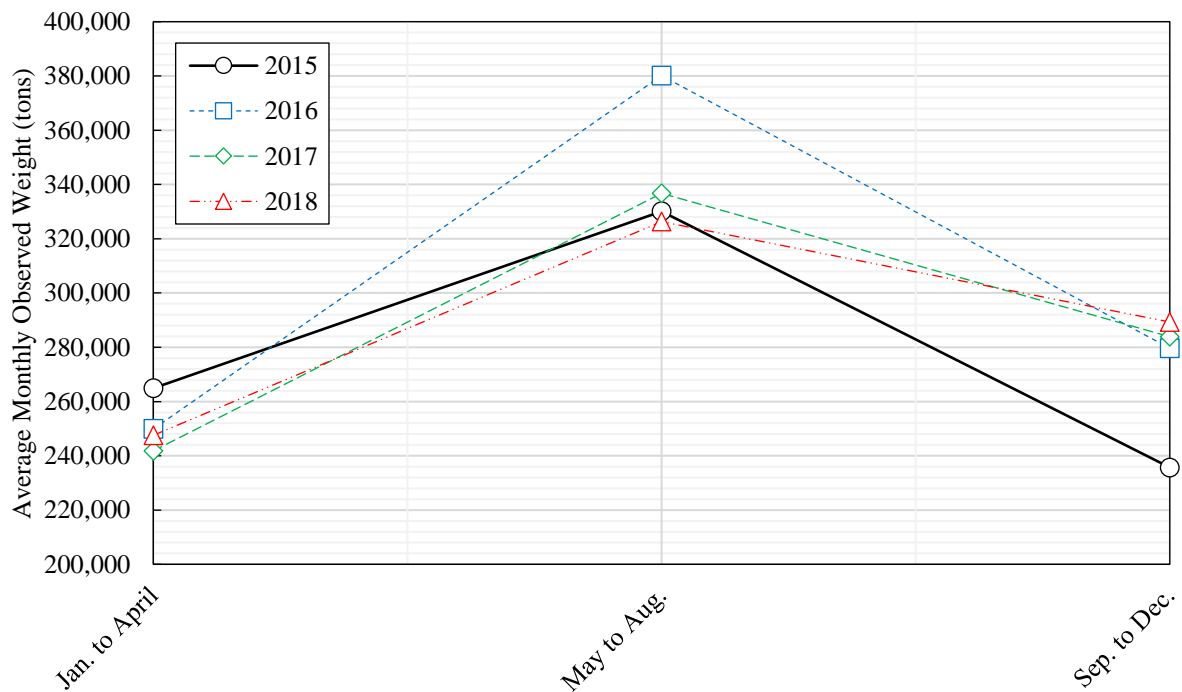


Figure 112: Seasonal Weight Trends by Year at Klamath Falls (NB) WIM Station for ODOT Class 11 Trucks

ODOT Class 12 to ODOT Class 19

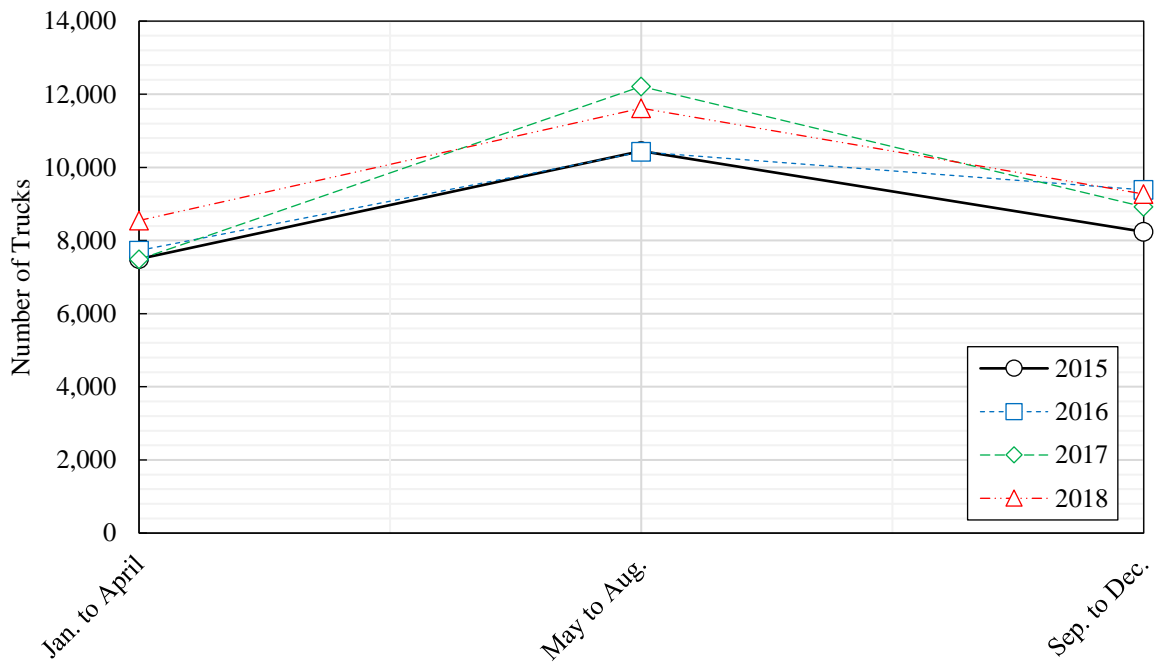


Figure 113: Seasonal Volume Trends by Year at Klamath Falls (NB) WIM Station for ODOT Class 12 to ODOT Class 19 Trucks

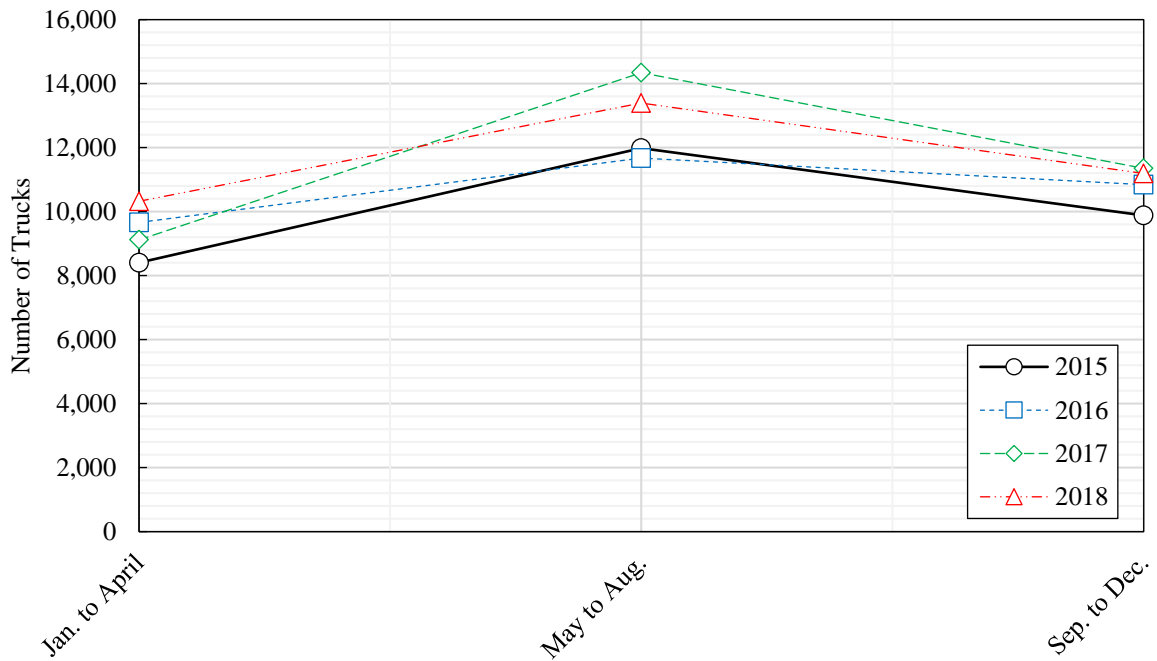


Figure 114: Seasonal Volume Trends by Year at Klamath Falls (SB) WIM Station for ODOT Class 12 to ODOT Class 19 Trucks

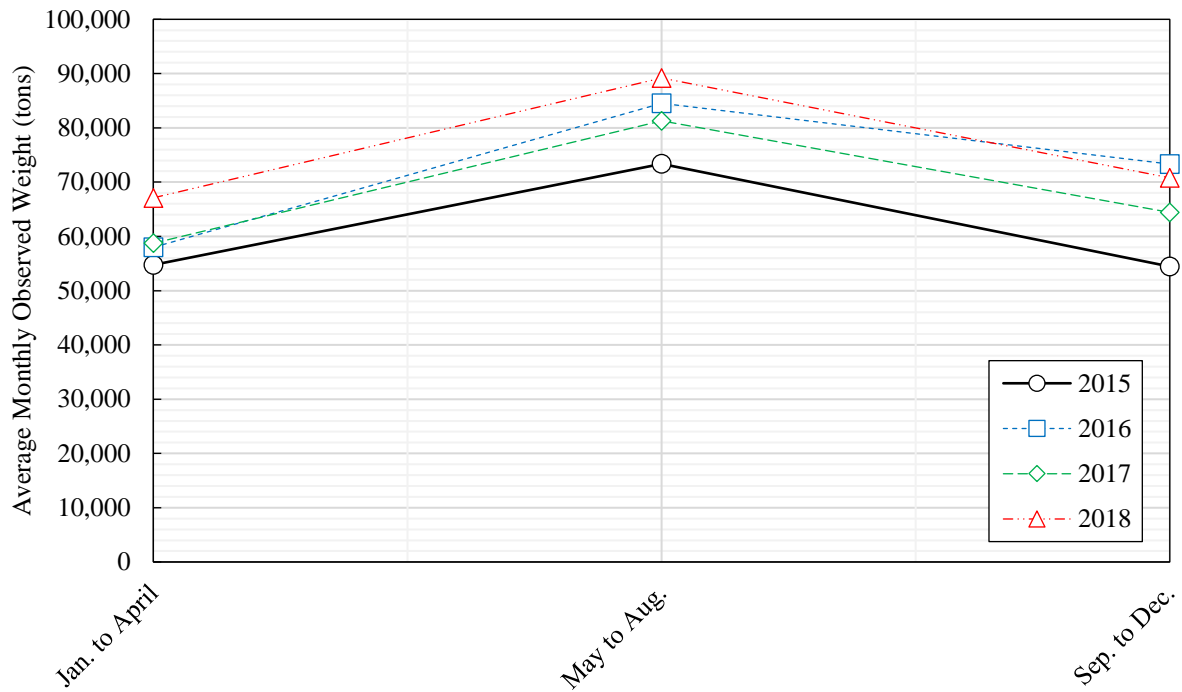


Figure 115: Seasonal Weight Trends by Year at Klamath Falls (NB) WIM Station for ODOT Class 12 to ODOT Class 19 Trucks

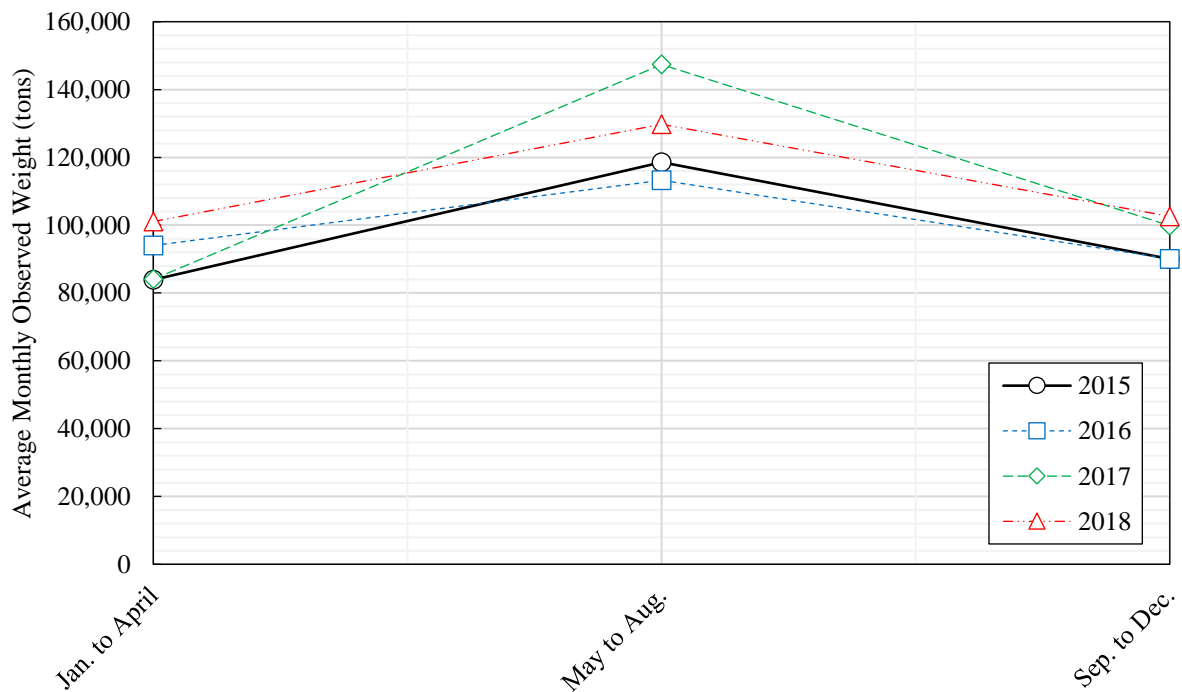


Figure 116: Seasonal Weight Trends by Year at Klamath Falls (SB) WIM Station for ODOT Class 12 to ODOT Class 19 Trucks

All Trucks (ODOT Class 03 to ODOT Class 19, Excluding Class 04 and Class 07)

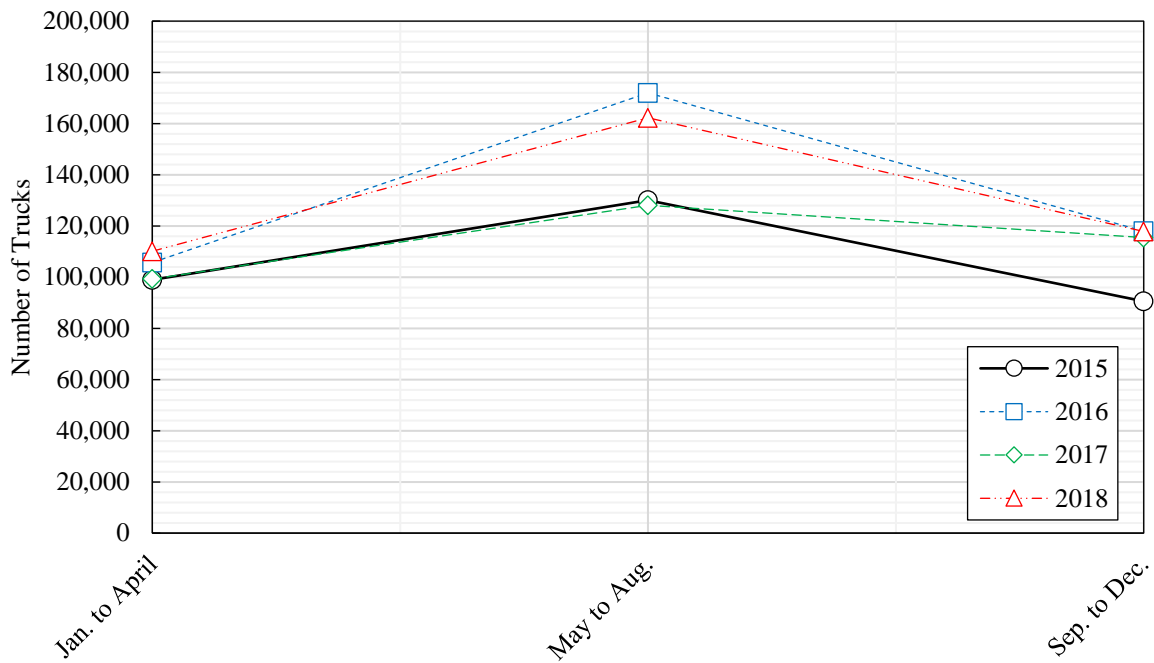


Figure 117: Seasonal Volume Trends by Year at Klamath Falls (NB) WIM Station for All Trucks

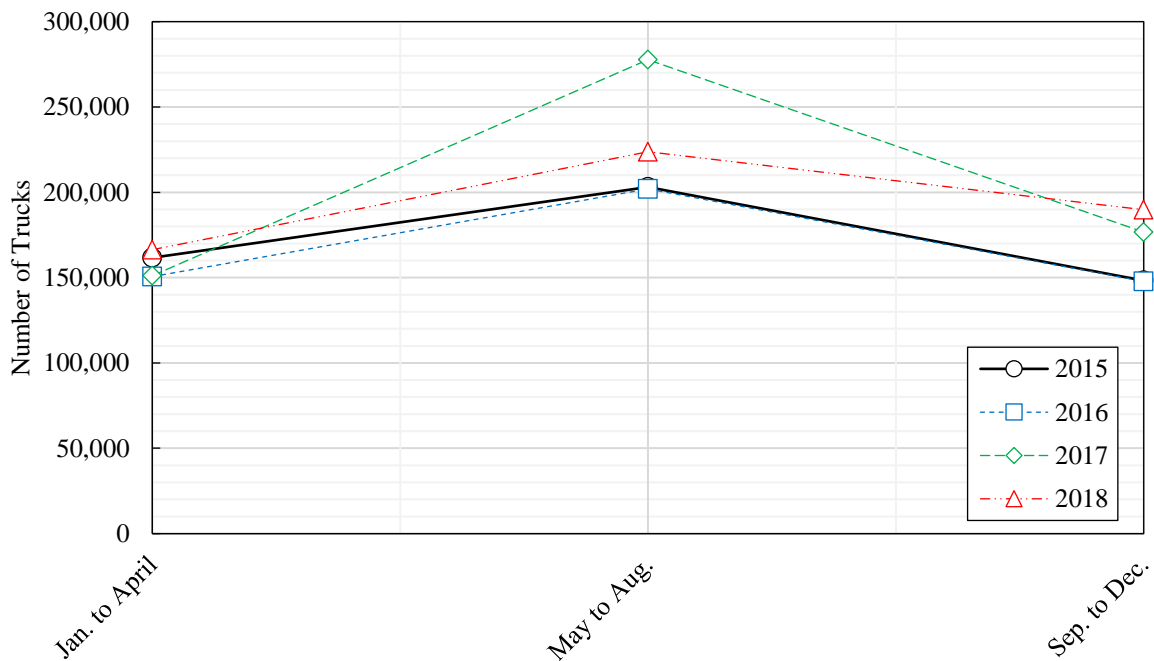


Figure 118: Seasonal Volume Trends by Year at Klamath Falls (SB) WIM Station for All Trucks

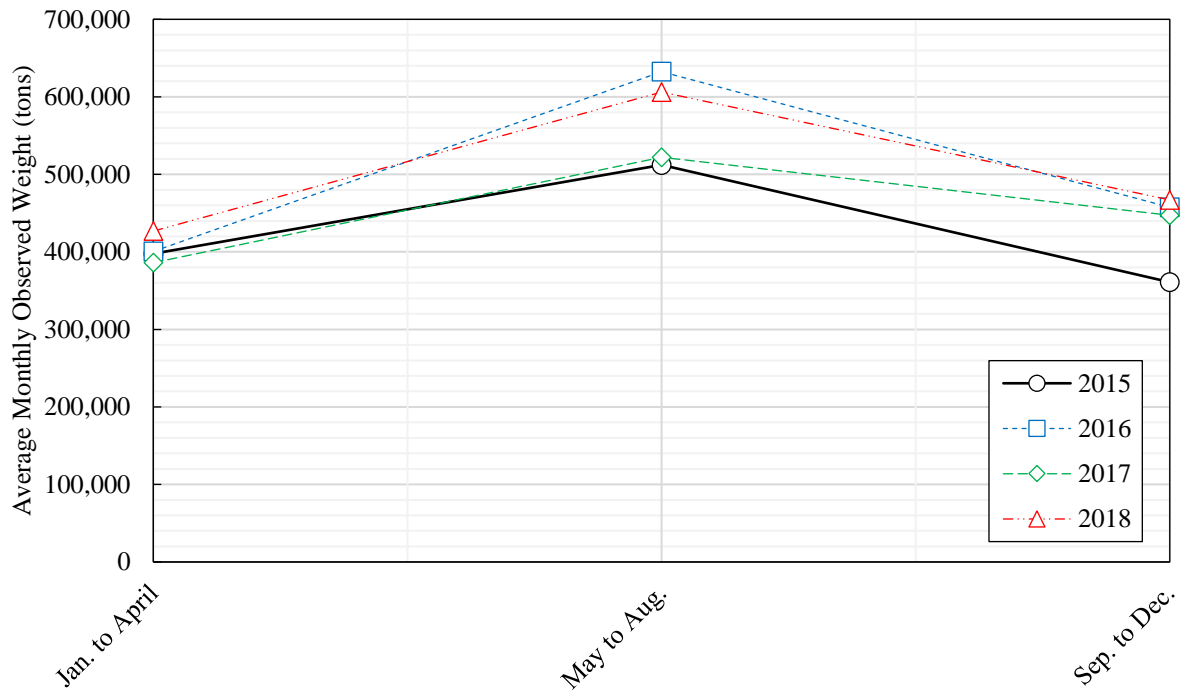


Figure 119: Seasonal Weight Trends by Year at Klamath Falls (NB) WIM Station for All Trucks

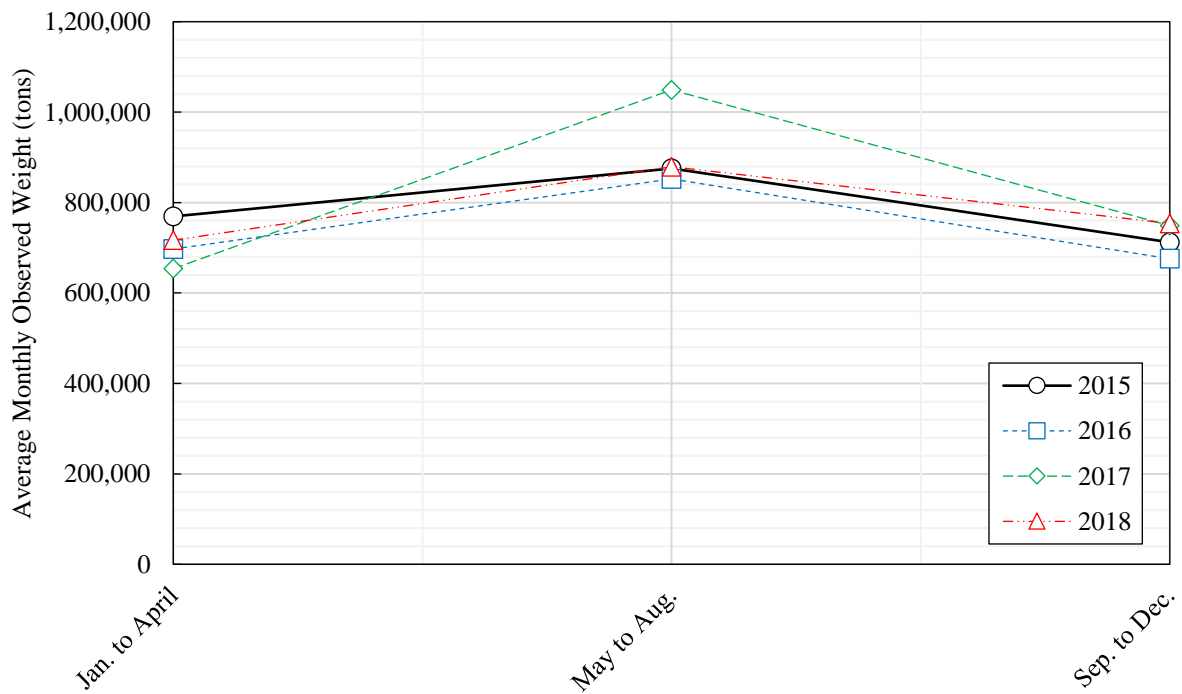


Figure 120: Seasonal Weight Trends by Year at Klamath Falls (SB) WIM Station for All Trucks