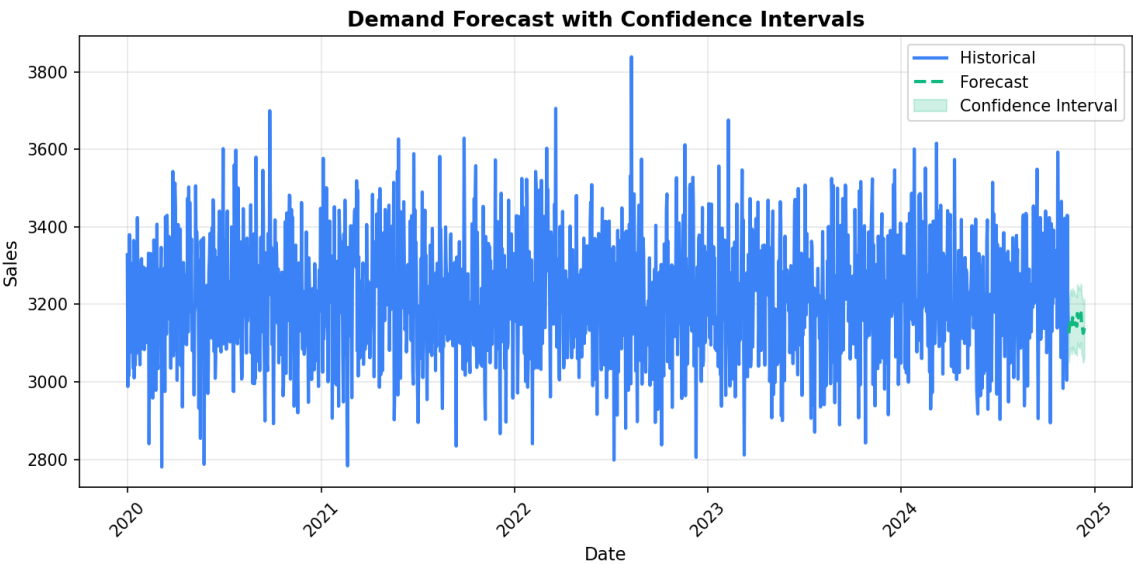# FORECAST REPORT

Executive Summary

Demand is expected to increase by **4.3%** over the next 30 days with high confidence (84.9%). The forecast indicates stable market conditions.

Demand Forecast Visualization

Demand Forecast with Confidence Intervals

Product Forecast Analysis

Product	Current	Forecast	Growth %	Confidence	Risk
P-38	5	6	+8.8%	78%	Medium
P-48	4	5	+17.6%	94%	High
P-79	5	5	-6.5%	86%	Medium
P-24	6	5	-5.7%	76%	Medium
P-69	5	5	-4.0%	92%	Low

P-45	7	7	-1.1%	81%	Low
P-9	6	6	+13.6%	80%	Medium
P-29	6	6	+6.9%	90%	Medium
P-54	8	9	+13.1%	94%	Medium
P-62	5	6	+9.0%	77%	Medium
P-47	7	7	+10.9%	95%	Medium
P-57	5	5	+8.3%	94%	Medium
P-87	6	6	-6.3%	92%	Medium
P-52	6	6	-3.9%	85%	Low
P-36	5	5	-3.0%	78%	Low
P-14	7	6	-9.0%	94%	Medium
P-12	5	5	-2.1%	82%	Low
P-4	5	6	+11.9%	77%	Medium
P-72	3	3	+15.1%	76%	High
P-64	4	5	+16.1%	83%	High
P-23	3	4	+8.3%	75%	Medium
P-89	6	7	+19.2%	86%	High
P-31	6	7	+9.1%	82%	Medium
P-26	5	4	-9.8%	81%	Medium
P-82	5	5	+17.4%	80%	High
P-60	5	6	+14.7%	80%	Medium
P-70	5	6	+13.3%	89%	Medium
P-25	5	6	+14.5%	86%	Medium
P-76	7	8	+13.7%	76%	Medium
P-28	7	6	-8.5%	90%	Medium
P-30	8	9	+14.5%	89%	Medium
P-73	5	5	+1.1%	77%	Low
P-39	4	4	-8.0%	90%	Medium
P-77	6	7	+2.6%	77%	Low
P-53	5	5	-6.7%	81%	Medium
P-74	5	5	-2.4%	90%	Low
P-81	6	6	+9.0%	80%	Medium
P-41	7	8	+7.7%	77%	Medium
P-5	6	6	-5.5%	92%	Medium
P-34	6	5	-4.9%	80%	Low

P-8	5	6	+17.0%	90%	High
P-37	4	5	+6.4%	94%	Medium
P-55	4	5	+17.7%	95%	High
P-19	6	6	-0.9%	91%	Low
P-66	6	7	+9.0%	80%	Medium
P-20	6	6	+4.4%	81%	Low
P-63	6	7	+19.2%	92%	High
P-78	6	6	+5.5%	88%	Medium
P-16	4	4	+0.1%	84%	Low
P-35	5	6	+10.4%	94%	Medium
P-6	4	4	+1.5%	80%	Low
P-83	6	6	-9.2%	78%	Medium
P-22	5	6	+18.3%	94%	High
P-49	7	6	-6.4%	87%	Medium
P-21	6	5	-8.4%	95%	Medium
P-84	4	4	-3.6%	79%	Low
P-85	4	4	+9.4%	85%	Medium
P-43	5	5	-2.0%	95%	Low
P-61	5	5	-7.0%	94%	Medium
P-58	5	4	-8.6%	81%	Medium
P-68	6	6	+11.2%	81%	Medium
P-71	6	7	+11.3%	91%	Medium
P-7	5	5	-3.2%	85%	Low
P-40	6	6	+3.4%	77%	Low
P-50	4	5	+5.3%	86%	Medium
P-46	6	6	+8.2%	93%	Medium
P-51	5	6	+9.2%	95%	Medium
P-10	7	8	+15.9%	90%	High
P-88	5	5	+3.6%	82%	Low
P-59	6	6	+2.5%	81%	Low
P-17	7	8	+17.3%	81%	High
P-18	5	5	+14.6%	81%	Medium
P-2	7	7	-8.0%	82%	Medium
P-32	6	5	-9.7%	83%	Medium
P-3	5	4	-5.7%	93%	Medium

P-67	7	8	+12.2%	83%	Medium
P-15	8	7	-6.0%	76%	Medium
P-44	5	5	+2.4%	75%	Low
P-42	5	5	+0.3%	83%	Low
P-27	7	7	+4.4%	80%	Low
P-75	6	7	+19.7%	84%	High
P-1	7	6	-9.8%	89%	Medium
P-65	6	6	+0.8%	84%	Low
P-80	4	5	+9.9%	78%	Medium
P-13	5	5	-0.9%	93%	Low
P-56	4	4	-3.7%	85%	Low
P-33	5	6	+7.1%	81%	Medium
P-11	7	7	+8.8%	76%	Medium
P-86	5	5	+3.0%	86%	Low

AI Recommendations: Products to Increase Inventory

Product	Growth %	Confidence	Recommendation
P-75	+19.7%	84%	Increase inventory by 20-30%
P-89	+19.2%	86%	Increase inventory by 20-30%
P-63	+19.2%	92%	Increase inventory by 20-30%
P-22	+18.3%	94%	Increase inventory by 20-30%
P-55	+17.7%	95%	Increase inventory by 20-30%

AI Recommendations: Products to Reduce Production

Product	Decline %	Risk	Recommendation
P-26	-9.8%	High	Reduce production by 15-25%
P-1	-9.8%	High	Reduce production by 15-25%
P-32	-9.7%	High	Reduce production by 15-25%
P-83	-9.2%	High	Reduce production by 15-25%
P-14	-9.0%	High	Reduce production by 15-25%

Risk Analysis

Forecast Volatility: 8.9% (Risk Level: Medium)
Stockout Probability: High for 26 products
Forecast Uncertainty: Average confidence 85%

Strategic Recommendations

• **Restocking Strategy:** Prioritize 26 high-growth products for immediate restocking
• **Production Planning:** Reduce production for 19 declining products to minimize waste
• **Risk Mitigation:** Maintain safety stock for products with confidence below 70%
• **Market Response:** Monitor demand trends weekly and adjust forecasts dynamically