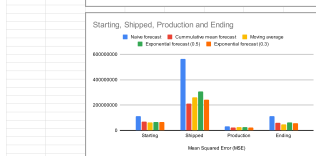
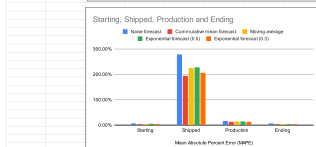
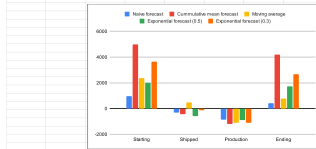


MSE (3)	
MSE (5)	
Alpha (exponent)	0.5
Alpha (exponent)	0.3

[illegible]

Year	2016				2017				2018				2019				2020				Total	Average	Standard Deviation
	Year	Month	Day	Time	Year	Month	Day	Time	Year	Month	Day	Time	Year	Month	Day	Time	Year	Month	Day	Time			
1	2016	1	1	00:00	2017	1	1	00:00	2018	1	1	00:00	2019	1	1	00:00	2020	1	1	00:00	5	1	00:00
2	2016	1	2	00:00	2017	1	2	00:00	2018	1	2	00:00	2019	1	2	00:00	2020	1	2	00:00	5	1	00:00
3	2016	1	3	00:00	2017	1	3	00:00	2018	1	3	00:00	2019	1	3	00:00	2020	1	3	00:00	5	1	00:00
4	2016	1	4	00:00	2017	1	4	00:00	2018	1	4	00:00	2019	1	4	00:00	2020	1	4	00:00	5	1	00:00
5	2016	1	5	00:00	2017	1	5	00:00	2018	1	5	00:00	2019	1	5	00:00	2020	1	5	00:00	5	1	00:00
6	2016	1	6	00:00	2017	1	6	00:00	2018	1	6	00:00	2019	1	6	00:00	2020	1	6	00:00	5	1	00:00
7	2016	1	7	00:00	2017	1	7	00:00	2018	1	7	00:00	2019	1	7	00:00	2020	1	7	00:00	5	1	00:00
8	2016	1	8	00:00	2017	1	8	00:00	2018	1	8	00:00	2019	1	8	00:00	2020	1	8	00:00	5	1	00:00
9	2016	1	9	00:00	2017	1	9	00:00	2018	1	9	00:00	2019	1	9	00:00	2020	1	9	00:00	5	1	00:00
10	2016	1	10	00:00	2017	1	10	00:00	2018	1	10	00:00	2019	1	10	00:00	2020	1	10	00:00	5	1	00:00
11	2016	1	11	00:00	2017	1	11	00:00	2018	1	11	00:00	2019	1	11	00:00	2020	1	11	00:00	5	1	00:00
12	2016	1	12	00:00	2017	1	12	00:00	2018	1	12	00:00	2019	1	12	00:00	2020	1	12	00:00	5	1	00:00
13	2016	1	13	00:00	2017	1	13	00:00	2018	1	13	00:00	2019	1	13	00:00	2020	1	13	00:00	5	1	00:00
14	2016	1	14	00:00	2017	1	14	00:00	2018	1	14	00:00	2019	1	14	00:00	2020	1	14	00:00	5	1	00:00
15	2016	1	15	00:00	2017	1	15	00:00	2018	1	15	00:00	2019	1	15	00:00	2020	1	15	00:00	5	1	00:00
16	2016	1	16	00:00	2017	1	16	00:00	2018	1	16	00:00	2019	1	16	00:00	2020	1	16	00:00	5	1	00:00
17	2016	1	17	00:00	2017	1	17	00:00	2018	1	17	00:00	2019	1	17	00:00	2020	1	17	00:00	5	1	00:00
18	2016	1	18	00:00	2017	1	18	00:00	2018	1	18	00:00	2019	1	18	00:00	2020	1	18	00:00	5	1	00:00
19	2016	1	19	00:00	2017	1	19	00:00	2018	1	19	00:00	2019	1	19	00:00	2020	1	19	00:00	5	1	00:00
20	2016	1	20	00:00	2017	1	20	00:00	2018	1	20	00:00	2019	1	20	00:00	2020	1	20	00:00	5	1	00:00

[illegible]

Mean Absolute Percent Error (MAPE)	Naïve forecast	Cumulative moving average	Exponential smoothing	Exponential forecast (S)
Starting	6.03%	4.40%	4.48%	4.07%
Shipped	278.80%	194.21%	224.98%	227.46%
Production	15.56%	12.58%	14.49%	12.88%
Ending	6.26%	3.88%	3.80%	3.82%

	Naïve forecast	Cumulative moving average	Exponential smoothing	Exponential forecast (8)
Starting	114058046	70043043.9	62056426.11	6717131.65
Shipped	564374273.8	210827612	26230571.5	327446423.2
Production	33191678.64	226865806.7	26954604.78	25404307.4
Ending	11185431.5	60275371.8	4890005.67	64045184.8

