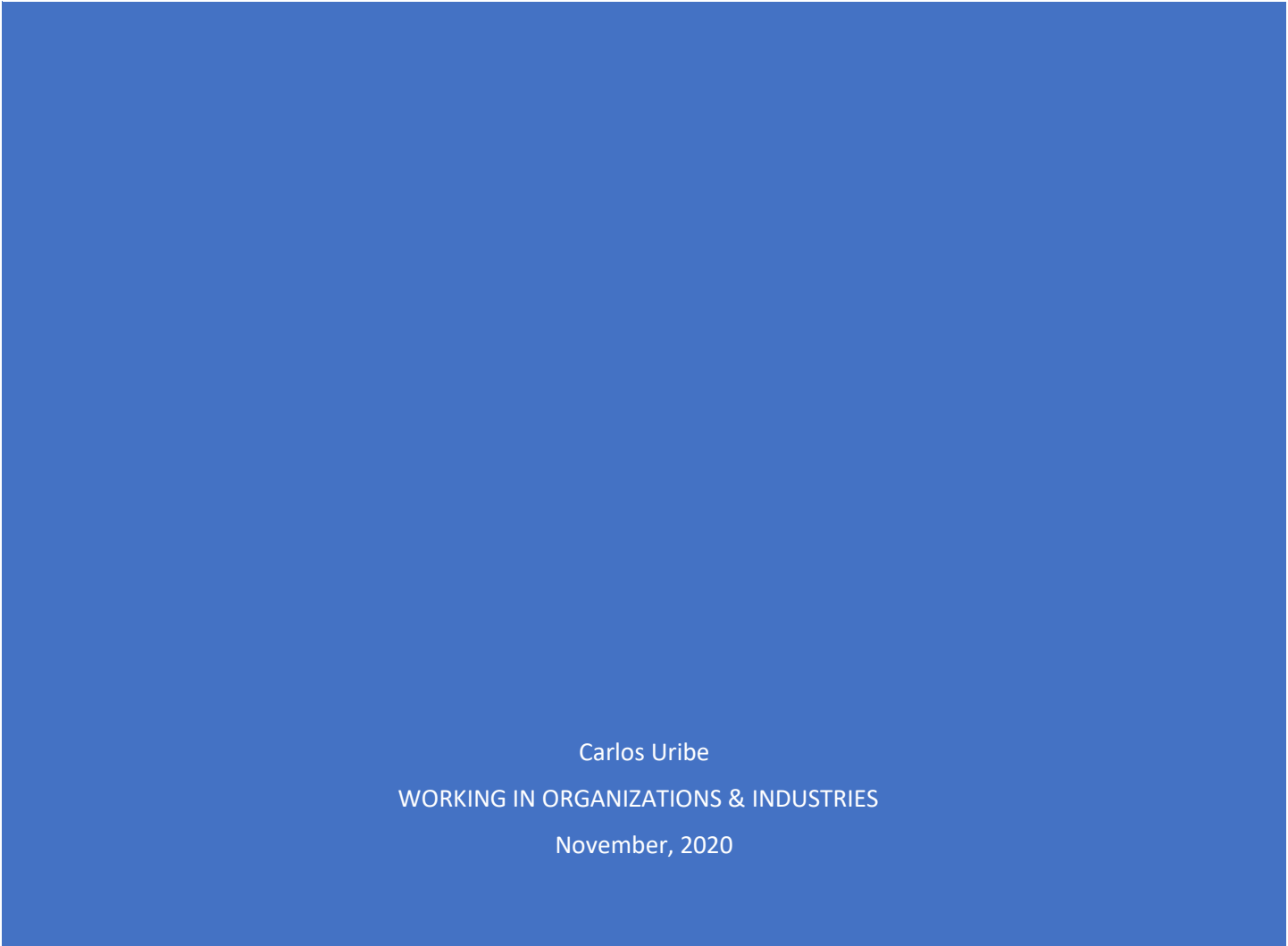




POWER BI PROJECT

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WORKING IN ORGANIZATIONS & INDUSTRIES
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OBJECTIVE

- Using the government public data web page, www.usitc.gov, retrieve real data which is commonly used in the petrochemical industry. The products selected and subject to analysis are the High-Density Polyethylene (HDPE) and the Low-Density Polyethylene (LDPE)
- The data related to this exercise is the US exports from domestic production to different destinations around the world. The data used from the USICT is known as Domestic Exports, which it refers to production in the USA destined to exports
- Use Excel to download and clean data from web page: prepare data converting from downloaded format to Excel formatting
- Manipulate data so that it can be used to create meaningful market information
- Perform some calculation such as total sales and percentage of participation, per grade
- Use Power BI to prepare an executive summary containing sales and market participation by product and destination
- Present indicators to evaluate key aspects of exports for each polyethylene grade
- Make comments and notes based on the information contained in both Excel files and Power BI presentations

Data & Facts

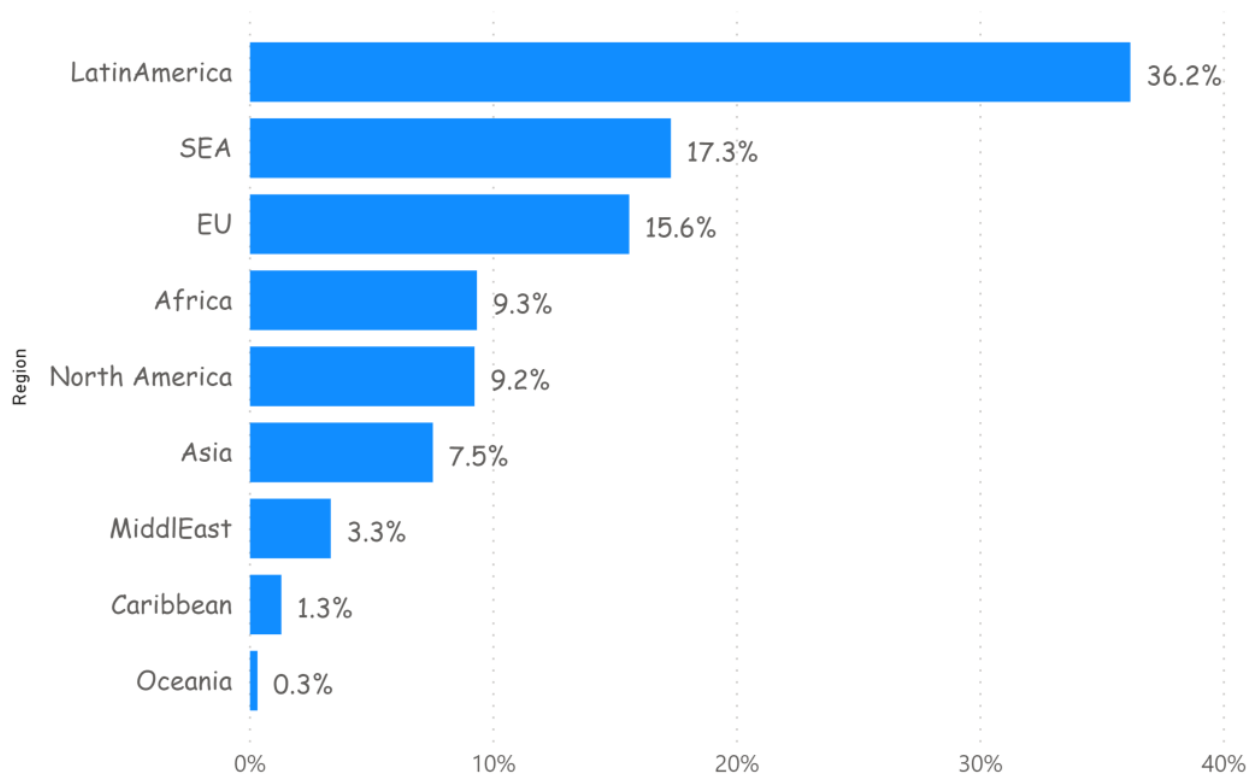
- The products selected and subject to analysis are the High-Density Polyethylene (HDPE) and the Low-Density Polyethylene (LDPE)
- According to the USITC the HS code for the HDPE is 390120 which correspond to the polyethylene having a specific gravity of 0.94 or more. Conversely, the HS code for the LDPE is 390110 which correspond to polyethylene having a specific gravity under 0.94.
- Data retrieved from 2019 the information came from January to December, whereas the latest data for 2020 it contains data from January to September.
- The original data downloaded from the original web page (www.usitc.gov) contained almost 300 rows
- Original data comes in kilograms, while the industry standard uses metric tons. Therefore, I needed to transform data to use industry standard measure units
- Data for each year comes in different tabs, per grade. Data is downloaded as exports by country per each month

Key Performance & Diagrams:

Domestic US HDPE Exports by Region

- Total exports of HDPE include export for all grades of Film, Injection and Blow Molding grades
- Latin America continue being the most important destination for the US HDPE, the latest report from the USITC showed. Data for year 2019 covers from January to December, whereas data for year 2020 covers from January up to September, 2020.
- In 2019 total exports of HDPE to Latin America were 1.326.374 (or 36% of total HDPE exports) metric tons and during 2020 quantity stood at 1.043.031 metric tons (or 35% of total HDPE exports), data showed.
- South East Asia (SEA) ranked as the second most important destination for the US HDPE in 2019 at 634,151 metric tons, ICTS data showed. Exports of HDPE to SEA stood at 17% of the total US HDPE exports in 2019. However, exports of HDPE to SEA during 2020 were at 402,025 metric tons (or 13.7%) which moved SEA to be the fourth most important destination for US HDPE in 2020. Data for year 2020 goes up to September.
- The European Union, EU, ranked third as the most important destination for US HDPE in year 2019 with 571,419 metric tons (or 16% of total HDPE exports). The EU ranked in the same third place during 2020 with 419,394 metric tons (or 14% of total HDPE exports).
- Africa ranked as the fourth most important destination for US HDPE during 2019 at 341,974 metric tons (or 9% of total HDPE exports). In 2020 Africa is in the sixth position of the US HDPE exports, with 226,892 metric tons (or 7.71%)
- North America for this report refers to Canada only, stood in fifth position of most important destinations for the US HDPE in 2019, at 338,338 metric tons (or 9%). This same position has North America for 2020 at 277.524 metric tons (or 9% of the total US HDPE exports).
- With the help of Excel data were organized, and with the help from Power BI some diagrams were build so that it facilitates the description of the US HDPE exports during years 2019 and 2020, respectively.

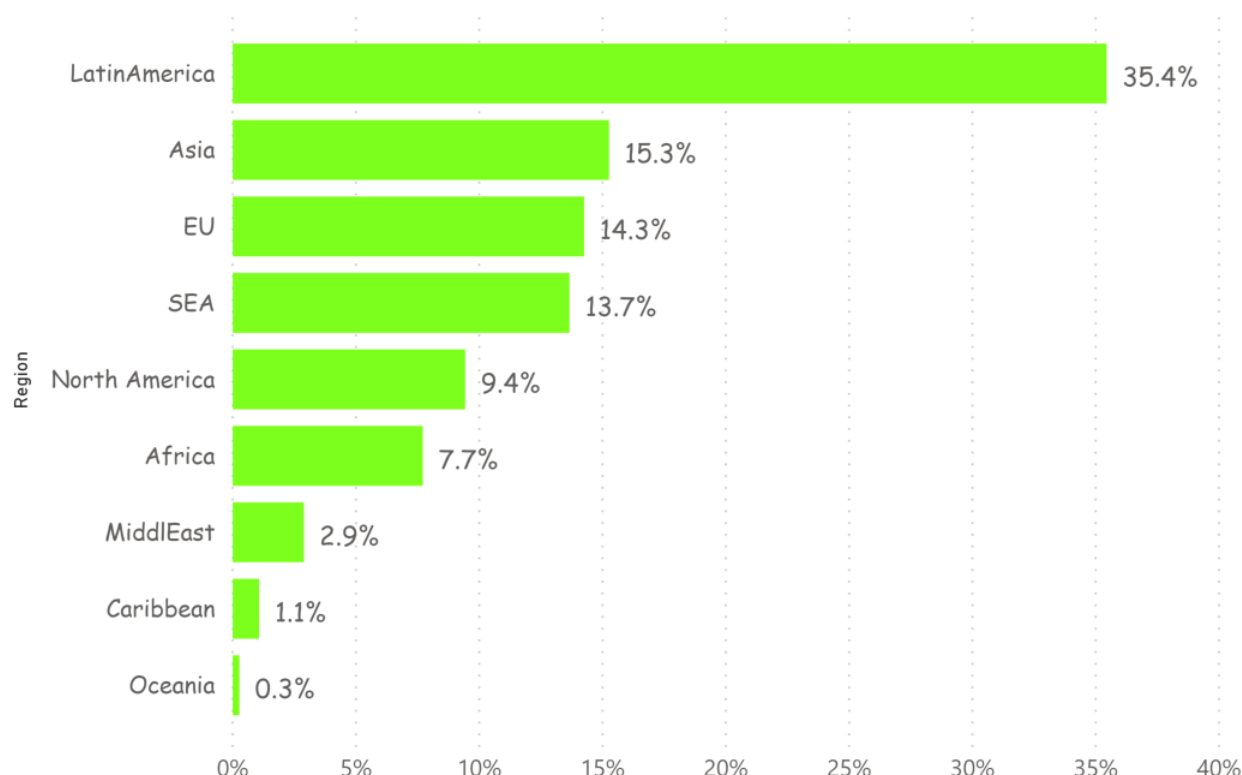
2019 US HDPE EXPORTS BY REGION (%)



Region	JUL	AUG	SEP	OCT	NOV	DEC	Total	Percent_Total
LatinAmerica	111,320.10	120,920.68	108,573.47	126,940.14	106,913.36	110,015.33	1,326,373.90	36.16%
SEA	45,460.24	75,553.87	77,182.87	83,398.50	71,913.56	82,009.72	634,150.70	17.29%
EU	47,349.76	59,150.83	42,451.93	45,723.54	37,885.80	41,989.57	571,419.40	15.58%
Africa	30,104.00	30,440.02	31,380.66	32,179.05	29,080.36	32,460.69	341,973.78	9.32%
North America	29,240.19	25,457.93	28,164.03	30,379.55	23,617.84	25,999.43	338,338.27	9.22%
Asia	26,757.84	34,547.35	22,102.70	27,354.31	19,660.25	22,407.23	275,573.57	7.51%
MiddleEast	8,270.65	10,053.06	12,268.00	10,188.76	10,217.57	14,326.41	121,681.02	3.32%
Caribbean	5,126.65	4,932.11	3,691.05	4,059.80	4,198.63	3,082.62	47,293.85	1.29%
Oceania	1,677.40	1,594.89	1,689.51	806.74	689.78	1,116.14	11,346.16	0.31%
Total	105,306.84	362,650.74	327,504.23	361,030.39	304,177.14	333,407.13	3,668,150.64	100.00%

- Asia ranked in the sixth position in the ranking of the most important destinations for the US HDPE exports during 2019, with 275.574 metric tons (or 7.5%). However, Asia jumped remarkably to be the second most important destination for the US HDPE exports during 2020, at 449,162 metric tons (or 15%).
- The Middle East ranked in seven position of the most important destinations for the US HDPE in 2019 at 121,681 metric tons (or 3.32%). The Middle East ranking presented no changes in 2020, so far, with 84.892 metric tons (or 3%), data showed.

2020 US HDPE EXPORTS BY REGION (%)



Region	Y	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total	Percent_Total
Latin America	5.32	94,219.43	106,199.87	117,880.31	123,405.85	0	0	0	1,043,031.29	35.44%
Asia	4.81	129,916.11	75,464.11	40,073.31	30,282.98	0	0	0	449,161.09	15.26%
EU	3.41	52,864.47	39,521.56	34,341.96	27,839.83	0	0	0	419,393.86	14.25%
SEA	3.68	37,010.16	43,919.59	43,485.47	34,114.51	0	0	0	402,025.36	13.66%
North America	9.96	33,228.21	33,680.70	35,744.75	30,355.03	0	0	0	277,524.02	9.43%
Africa	2.64	21,804.58	23,881.58	28,652.19	16,404.73	0	0	0	226,891.78	7.71%
Middle East	1.76	8,272.89	13,152.64	5,847.86	4,733.17	0	0	0	84,892.45	2.88%
Caribbean	9.89	3,071.08	2,771.82	3,395.65	3,097.50	0	0	0	31,672.47	1.08%
Oceania	4.32	1,614.37	788.61	1,062.99	235.40	0	0	0	8,091.88	0.27%
Total	5.81	382,001.30	339,380.48	310,484.49	270,469.00	0	0	0	2,942,684.19	100.00%

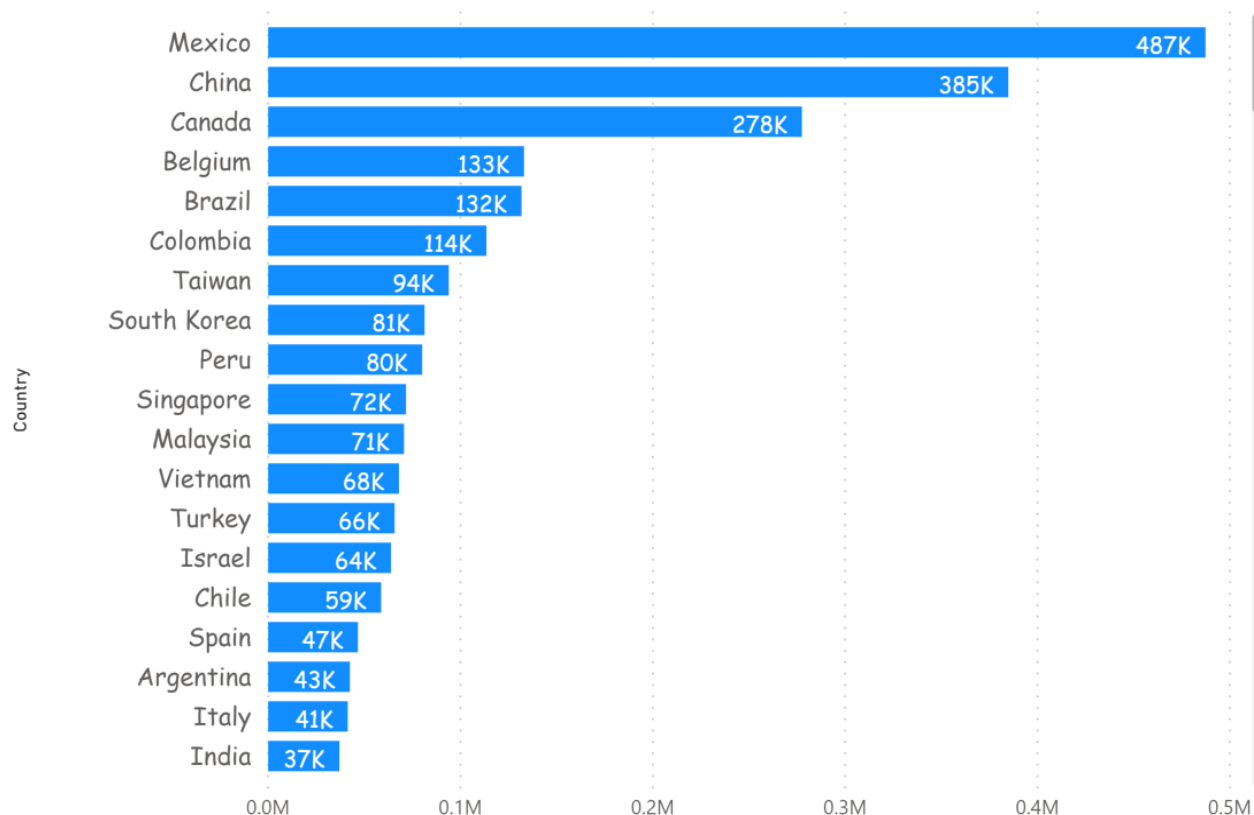
Destination of US HDPE Exports by Country

- Mexico is leading as the most important destination of the US HDPE exports during year 2020, the latest data from the USITC showed. Exports of the US HDPE during 2020 into Mexico stood at 487,362 metric tons (or 16.56% of the total US HDPE exports). This positioned Mexico as a remarkable key strong player for the US HDPE exports, having into consideration that in year 2019 exports of US HDPE into Mexico were at 647,580 (or 17.65%) metric tons

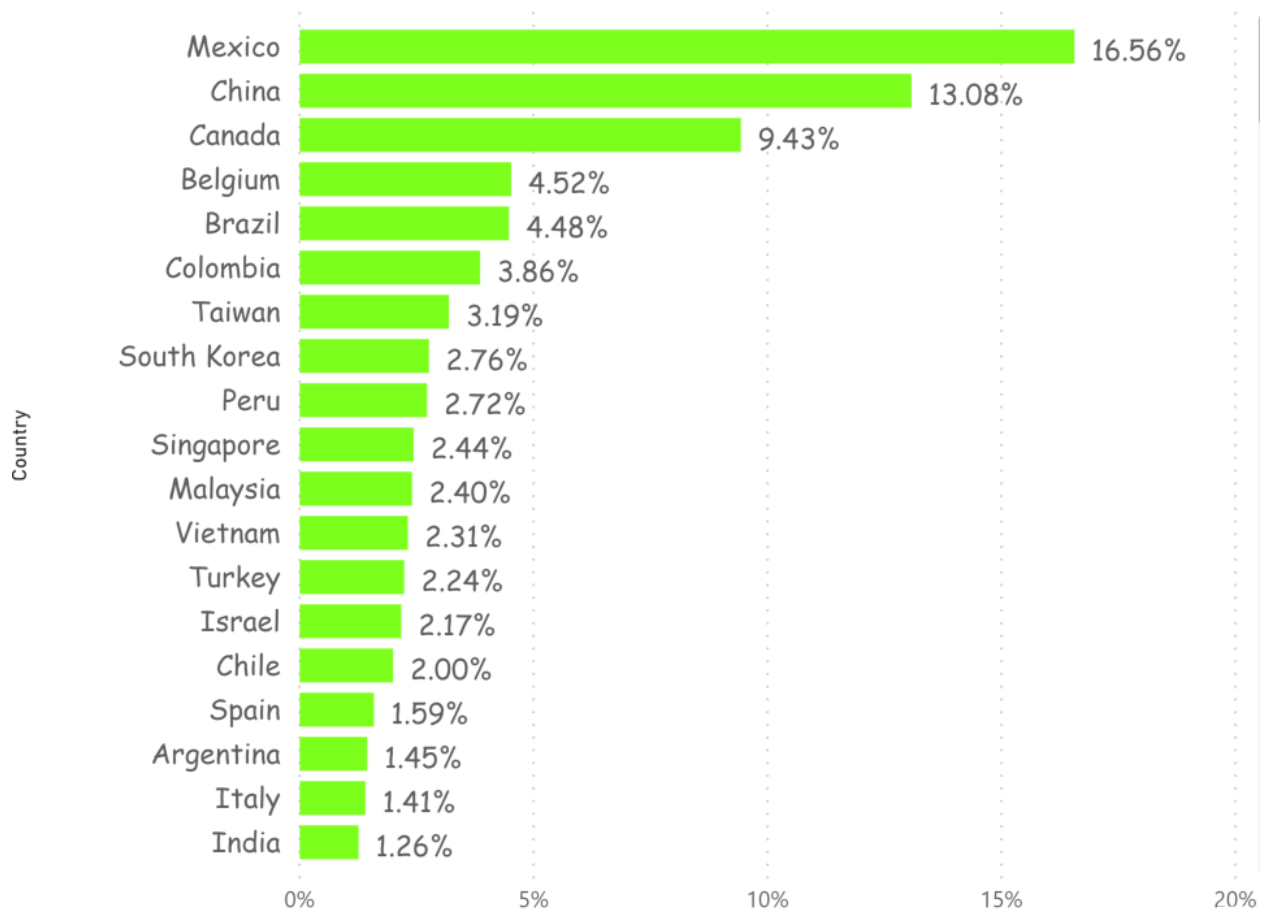
Country	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total	Percent Total
Mexico	56,623.94	63,389.93	54,992.79	50,416.75	46,322.22	49,399.06	52,349.95	58,509.83	55,357.28	0	0	0	487,361.74	16.56%
China	13,566.71	11,970.54	6,732.60	13,890.67	82,609.48	123,426.47	71,145.89	34,759.96	26,719.25	0	0	0	384,821.58	13.08%
Canada	24,298.66	26,876.86	32,721.36	28,878.50	31,739.96	33,228.21	33,680.70	35,744.75	30,355.03	0	0	0	277,524.02	9.43%
Belgium	19,848.80	18,526.73	17,423.51	17,649.38	16,253.41	16,005.19	13,021.48	6,974.55	7,335.44	0	0	0	133,038.48	4.52%
Brazil	16,943.68	13,282.75	16,592.37	14,992.82	11,868.93	10,354.96	10,490.16	13,866.10	23,364.66	0	0	0	131,756.42	4.48%
Colombia	16,134.24	16,584.39	18,258.68	10,147.89	9,468.26	7,730.43	11,205.83	12,307.56	11,675.37	0	0	0	113,512.65	3.86%
Taiwan	11,565.12	13,791.63	11,671.31	7,460.88	2,854.50	5,798.04	15,122.20	15,223.48	10,452.18	0	0	0	93,939.34	3.19%
South Korea	10,998.88	10,517.17	10,881.82	12,347.90	8,755.16	7,289.33	7,044.64	6,521.65	6,986.26	0	0	0	81,342.80	2.76%
Peru	0,571.45	11,642.05	11,712.10	0,405.02	5,120.40	5,124.40	7,522.65	0,200.27	10,550.20	0	0	0	80,116.71	2.73%
Total	330,450.16	351,649.59	339,489.48	281,083.88	337,675.81	382,001.30	339,380.48	310,484.49	270,469.00	0	0	0	2,942,684.19	100.00%

- China is ranking in the second place as the most important destination for the US HDPE exports during year 2020 with 384,822 metric tons (or 13%). China jumped into the second place, so far this year, after ranking in the sixth place during the year 2019 at 152,019 metric tons (or 4%)
- Canada at 277,524 metric tons (or 9%) placed in third position of the most important destinations for the US HDPE in year 2020. However, Canada was at the second position in the ranking during year 2019 when total exports were at 338,338 (or 9%) metric tons
- Belgium is ranking in the fourth place of the most important destinations of the US HDPE in 2020, at 133,038 metric tons (or 4.52%). Belgium ranked in the third place during year 2019 when total exports stood at 205.235 (or 5.6%).

2020 US HDPE EXPORTS BY COUNTRY (Mt)



2020 US HDPE EXPORTS BY COUNTRY (% Participation)



- Brazil ranked fifth in the list of the most important destinations for the US HDPE during 2020, with 131,756 metric tons (or 4.48%). Brazil stood at the same fifth position during year 2019 when total exports were at 158,507 metric tons (or 4%) of the total US HDPE exports in that period.
- Colombia is in the six position of the most important destinations for the US HDPE exports, so far in year 2020, with 113,513 metric tons (or 3.86%). Colombia ranked in the eight position at 140,922 metric tons (or 3.84%) of the total US HDPE exports during year 2019.

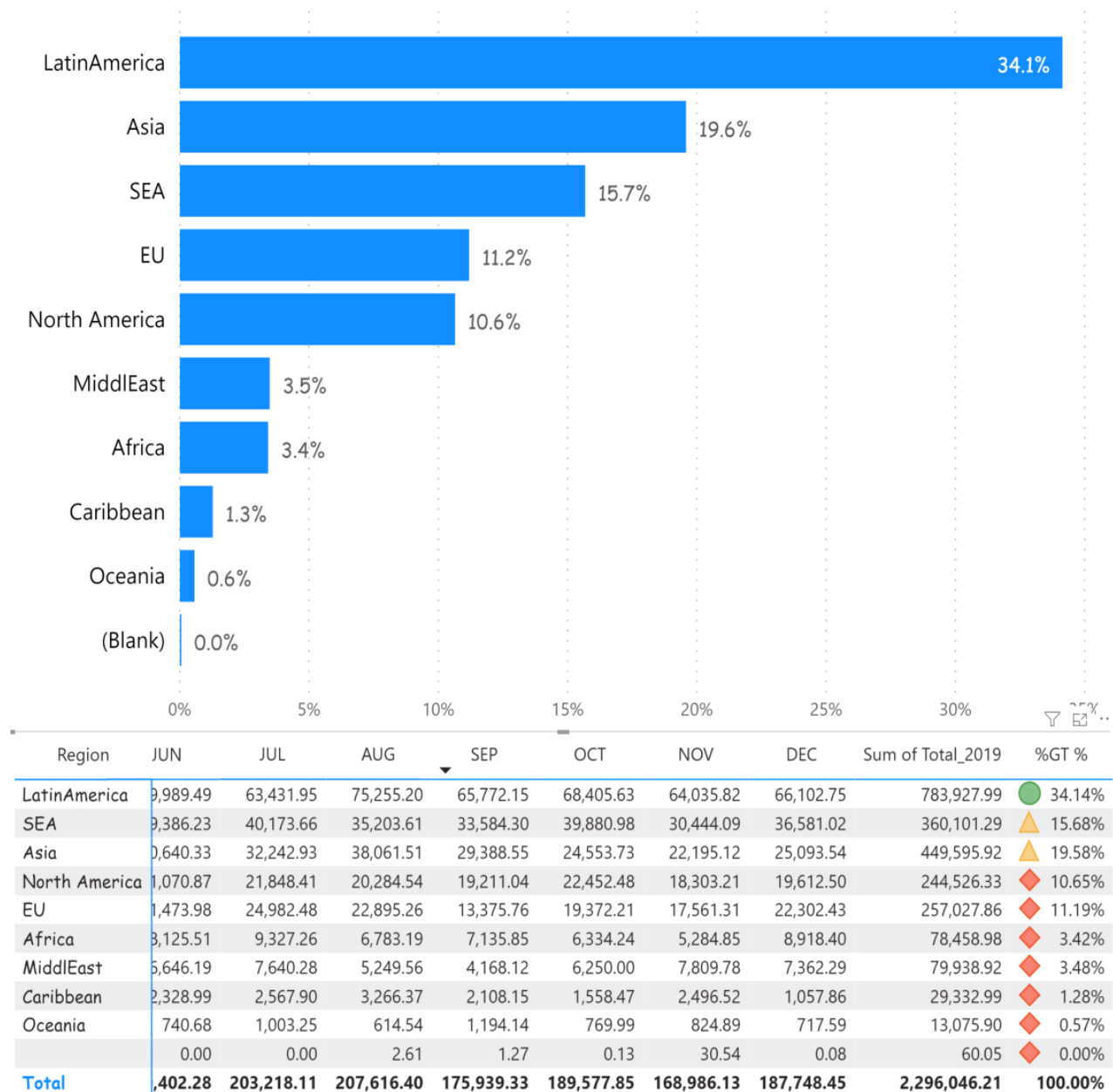
Domestic US LDPE Exports by Region

- Total exports of LDPE include polyethylene having a specific gravity of less than 0.94, in primary forms. Under the USITC the code for LDPE is 390110 and it also includes grades such as linear low-density polyethylene (LLDPE), medium density polyethylene and polyethylene having a relative viscosity of 1.44 or more
- Latin America continue leading as the most important destination for the US LDPE, the latest report from the USITC showed. Data for year 2019 covers from January to December, whereas data for year 2020 covers from January up to September, 2020.
- In 2019 total exports of LDPE to Latin America were 783,928 metric tons (or 34% of total LDPE exports) and quantity during 2020 stood at 1.043.031 (or 35% of total LDPE exports) metric tons,

data showed. With only one quarter left to finish 2020, we can infer that exports during 2020 are going to be higher compared to previous year.

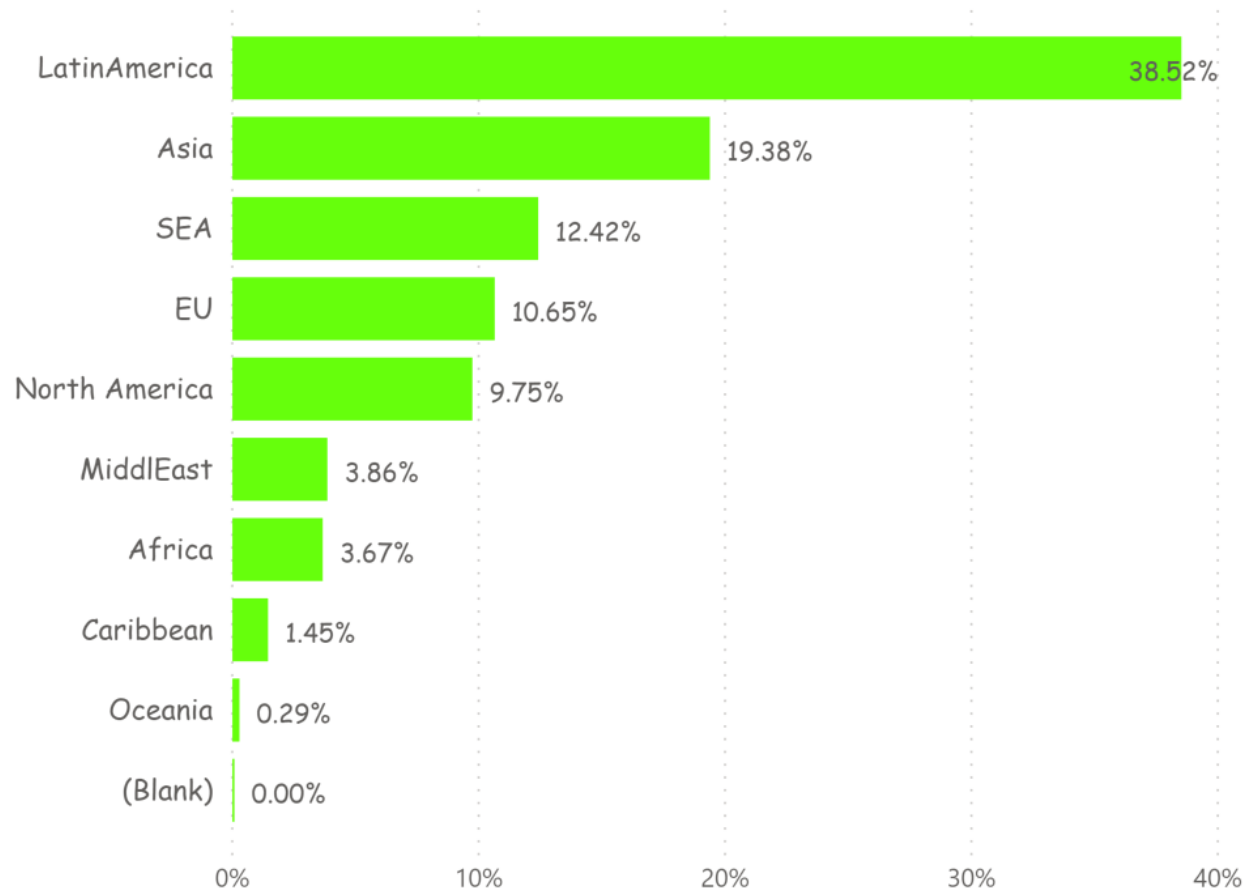
- Asia became the second most important destination for the US LDPE in year 2020, with 346,225 metric tons (or 19% of total LDPE exports). However, Asia was in third place during year 2019 at 449,596 metric tons (or 20%), data from USITC showed.

2019 US LDPE EXPORTS BY REGION



- South East Asia (SEA) ranked as the third most important destination for the US LDPE in 2020 at 221,811 metric tons (or 12%), ICTS data showed. Exports of US LDPE to SEA stood at 360,101 metric tons (or 16% of the total US LDPE exports) in 2019.

2020 US LDPE EXPORTS BY REGION



Region	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total	%GT %
LatinAmerica	72,883.43	75,322.96	73,727.34	80,034.31	0	0	0	688,084.73	38.52%
Asia	52,783.12	53,466.23	39,677.30	37,100.54	0	0	0	346,225.07	19.38%
SEA	20,801.04	26,966.38	22,266.39	12,515.71	0	0	0	221,811.38	12.42%
EU	22,357.87	15,426.79	17,609.45	14,194.99	0	0	0	190,285.88	10.65%
North America	20,382.71	17,241.04	20,019.20	17,737.53	0	0	0	174,072.69	9.75%
MiddleEast	9,269.30	7,942.10	5,752.93	2,484.36	0	0	0	68,943.72	3.86%
Africa	6,880.87	6,872.37	5,989.39	5,895.87	0	0	0	65,545.42	3.67%
Caribbean	2,583.96	2,197.28	2,816.94	2,732.42	0	0	0	25,916.71	1.45%
Oceania	728.26	547.31	807.93	842.58	0	0	0	5,210.05	0.29%
(Blank)	0.00	0.00	0.29	0.01	0	0	0	42.38	0.00%
Total	08,670.55	205,982.45	188,667.16	173,538.30	0	0	0	1,786,138.02	100.00%

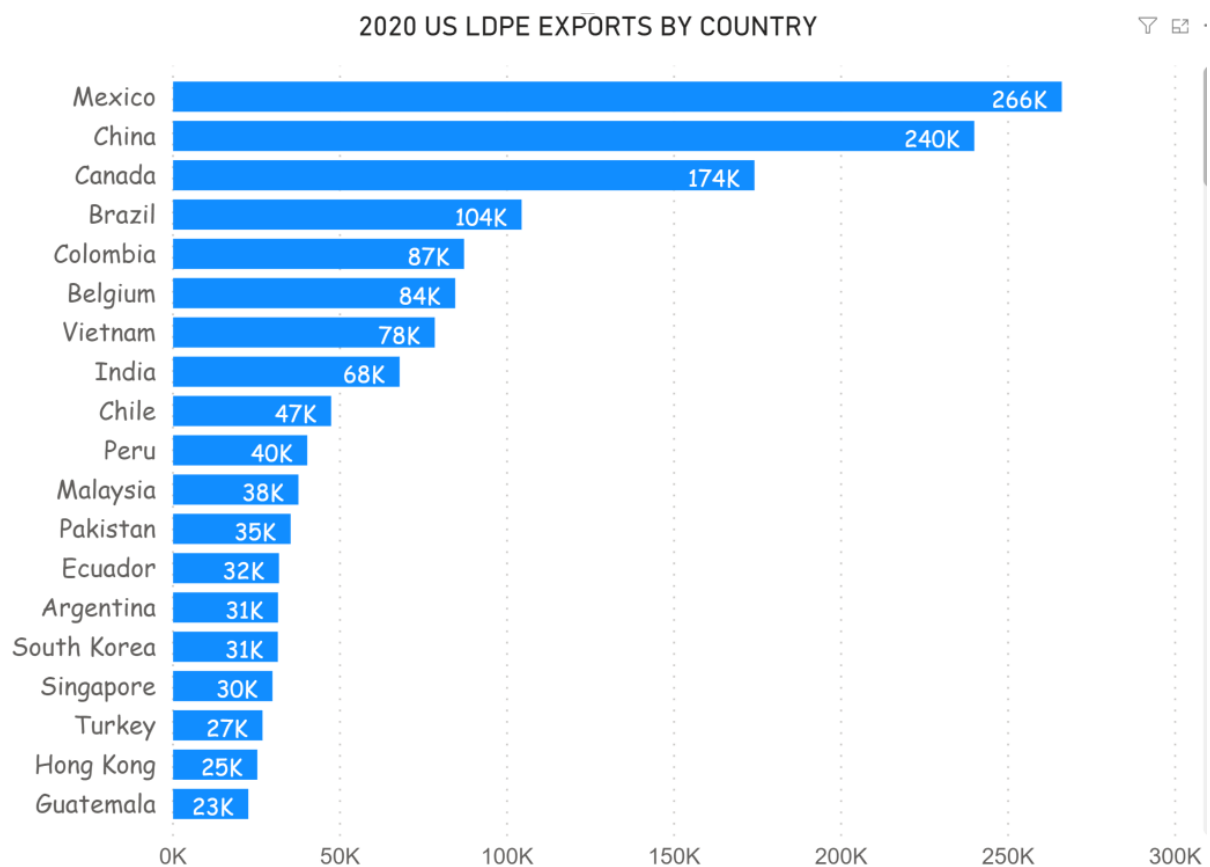
- The European Union, EU, ranked fourth as the most important destination for US LDPE in year 2020 with 190,286 metric tons (or 11% of total LDPE exports). The EU ranked in the same fifth place during 2019 with 257,028 metric tons (or 11% of total LDPE exports).
- North America, referred to Canada only for the purpose of this report, stood in fifth most important destinations for the US LDPE in 2020, at 174,073 metric tons (or 10%). However, North America was at 244,526 metric tons (or 11%) during year 2019 when it ranked fourth among the most important destinations for US LDPE exports.
- The Middle East became the sixth most important destination for US LDPE during 2020, at 68,944 metric tons (or 4%). However, Middle East ranked in the seventh position during 2019, at 79,939 metric tons (or 3%).
- Africa ranked at the seventh most important destination for US LDPE during 2020 at 65,545 metric tons (or 4% of total LDPE exports). In 2019 Africa ranked is in the sixth position of the US LDPE exports, with 78,459 metric tons (or 3%), the latest data from the USITC showed.
- With the help of Excel data were organized, and with the help from Power BI some diagrams were built so that it facilitates the description of the US LDPE exports during years 2019 and 2020, respectively.

Destination of US LDPE Exports by Country

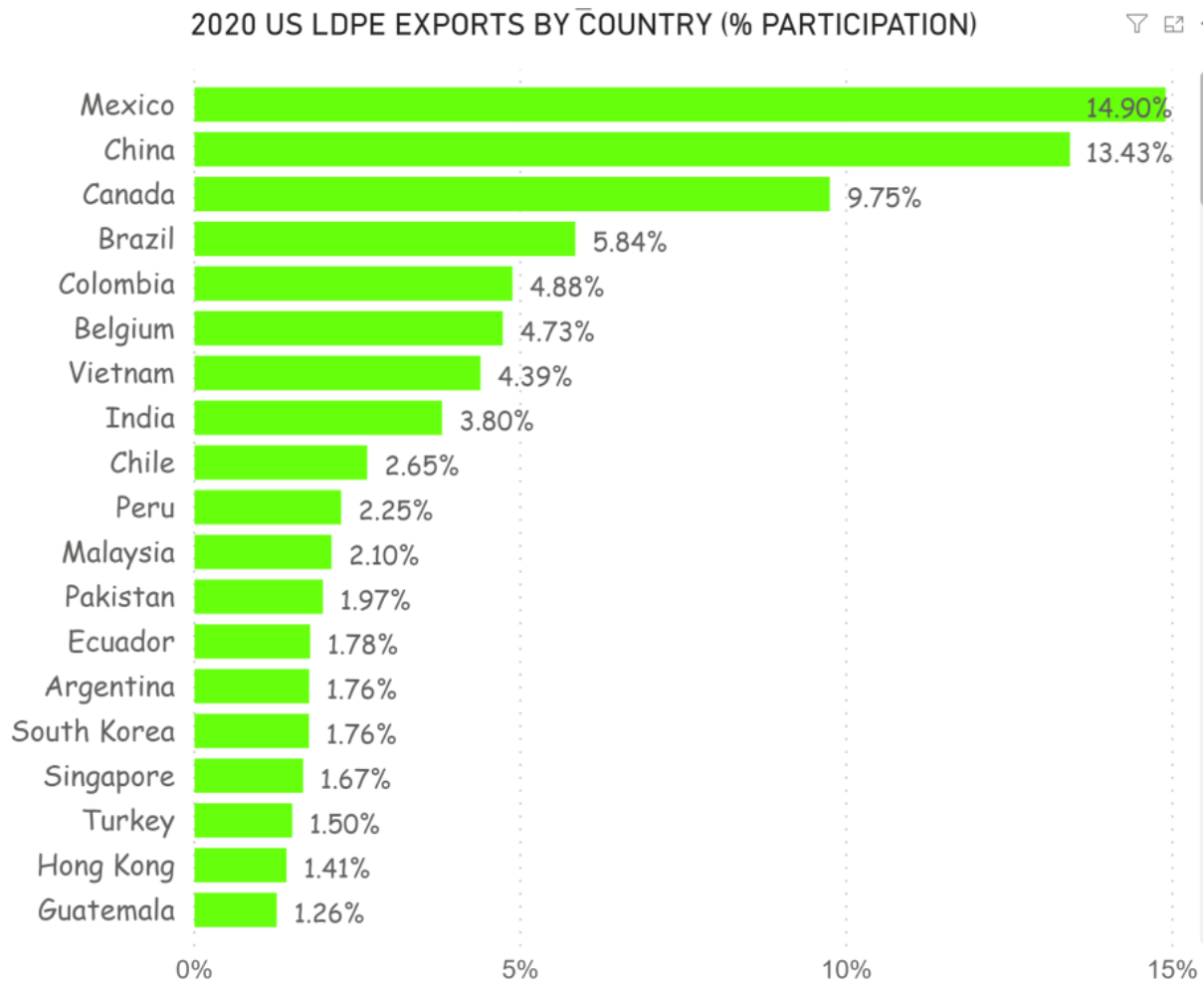
- Mexico is leading as the most important destination of the US LDPE exports during year 2020, the latest data from the USITC showed. Exports of the US LDPE during 2020 into Mexico stood at 266,065 metric tons (or 15% of the total US LDPE exports). Exports of US LDPE into Mexico were at 330,930 metric tons (or 14%) during year 2019, the data showed.
- China is ranking in the second place as the most important destination for the US LDPE exports during year 2020 with 239,867 metric tons (or 13%). China ranked in the same position during year 2019 at 300,693 metric tons (or 13%).
- Exports of US LDPE to Canada, at 174,073 metric tons (or 10%), ranked in third position of the most important destinations during year 2020. Canada is poised to remain in the same position when compared to the ranking seen in year 2019, when total exports were at 244,526 metric tons (or 11%).

Country	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total	%GT %
Mexico	30,128.09	27,219.48	30,255.80	29,367.80	28,675.93	28,746.31	32,295.21	28,369.23	31,006.85	0	0	0	266,064.70	14.90%
China	21,813.05	15,465.58	12,620.74	15,011.56	43,437.67	40,403.39	38,682.50	25,733.55	26,699.45	0	0	0	239,867.49	13.43%
Canada	19,754.96	17,344.63	23,519.88	20,931.19	17,141.55	20,382.71	17,241.04	20,019.20	17,737.53	0	0	0	174,072.69	9.75%
Brazil	11,473.27	12,614.93	14,516.57	10,587.51	8,261.28	7,992.40	10,886.66	11,668.20	16,366.86	0	0	0	104,367.68	5.84%
Colombia	9,209.54	10,614.90	12,190.96	9,503.45	8,423.30	9,074.64	8,869.08	10,184.05	9,063.34	0	0	0	87,133.25	4.88%
Belgium	10,365.46	11,130.64	15,178.54	12,367.09	7,648.19	8,585.05	5,280.04	8,518.84	5,410.04	0	0	0	84,483.89	4.73%
Vietnam	10,001.01	9,965.28	5,611.82	10,276.71	5,655.96	6,751.46	15,256.53	10,185.26	4,677.27	0	0	0	78,381.28	4.39%
India	7,534.14	9,640.43	6,282.88	3,562.50	5,620.71	7,215.64	9,527.81	9,966.55	8,495.35	0	0	0	67,846.01	3.80%
Chile	5,082.40	5,486.70	5,712.52	4,821.42	4,810.81	5,921.15	4,633.55	6,820.04	4,062.22	0	0	0	47,350.81	2.65%
Total	207,764.71	201,674.88	210,838.31	187,326.60	201,675.06	208,670.55	205,982.45	188,667.16	173,538.30	0	0	0	1,786,138.02	100.00%

- Brazil is at the fourth position in the ranking of the most important destinations for the US LDPE during 2020, at 104,368 metric tons (or 6%). Brazil stood at the sixth position during year 2019 with exports at 112,149 metric tons (or 5%) during that period.
- Colombia stood at the fifth position in the ranking of the most important destinations for the US LDPE exports, so far during year 2020, with 87,133 metric tons (or 5%). Colombia ranked in the seventh position during year 2019, at 76,829 metric tons (or 3%). Exports to Colombia in 2020 has increased when compared to those numbers obtained during year 2019, data showed.
- Belgium is ranking in the sixth place in 2020, at 84,484 metric tons (or 5%). Belgium ranked in the fifth place during year 2019 when exports stood at 129,023 metric tons (or 6%). It is clear the exports to Belgium has decreased substantially when comparing the numbers in year 2020 to those seen during 2019, data showed.



- Vietnam is in the seventh position of the ranking, so far during year 2020, at 78,381 metric tons (or 4%). This is a remarkable change when comparing the exports of 153,397 metric tons (or 7%) seen during year 2019, when Vietnam ranked in the fourth position, data from USITC showed.



Domestic US HDPE Exports: Year on Year Difference

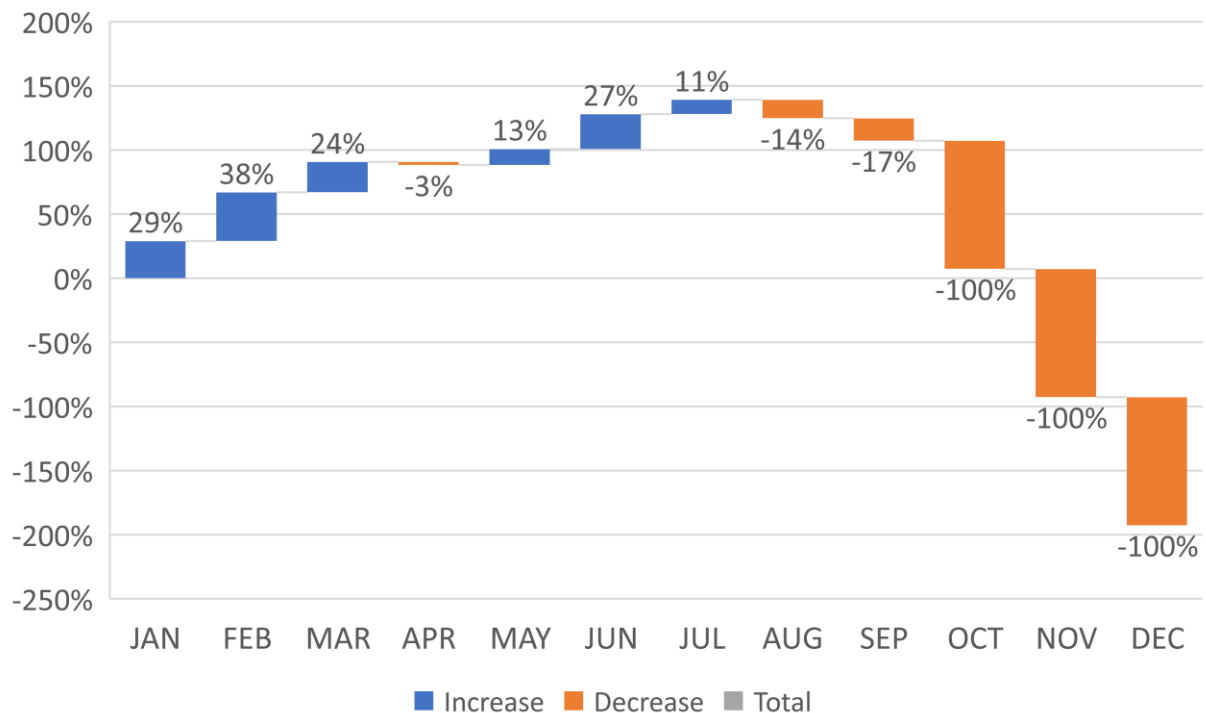
- Exports of US HDPE have increased month to month from year 2019 to 2020, with exceptions seen during the months of April, August and September.
- US HDPE January exports increased 29%, February showed a 38% increase while March presented a 24% increase.
- April exports decreased 3% year on year, most probably due to the pandemic.
- May exports increased 13%, June went up 27% and July 11% increased which was the first of the pandemic.
- August exports saw a 14% decrease while September exports went down 17%

Domestic US HDPE Exports, Difference

Month	2019	2020	Diff	% Change
JAN	256,332,121	330,450,157	74,118,036	29%
FEB	254,983,466	351,649,589	96,666,123	38%
MAR	274,281,750	339,489,480	65,207,730	24%
APR	288,296,124	281,083,882	-7,212,242	-3%
MAY	299,909,182	337,675,805	37,766,623	13%
JUN	300,271,545	382,001,303	81,729,758	27%
JUL	305,306,836	339,380,477	34,073,641	11%
AUG	362,650,735	310,484,491	-52,166,244	-14%
SEP	327,504,225	270,469,003	-57,035,222	-17%
OCT	361,030,388	0	-361,030,388	-100%
NOV	304,177,144	0	-304,177,144	-100%
DEC	333,407,125	0	-333,407,125	-100%

- It is important to remember that the polymers industry was affected in 2018 and 2019 by environmental groups using social media to show pictures of turtles and sea species being trapped by plastic wastes. However, due to COVID the plastic industry saw an important uptrend and many applications using plastics became a key important player to deal with the pandemic.

US HDPE Exports 2020 -vs- 2019 Change (%)



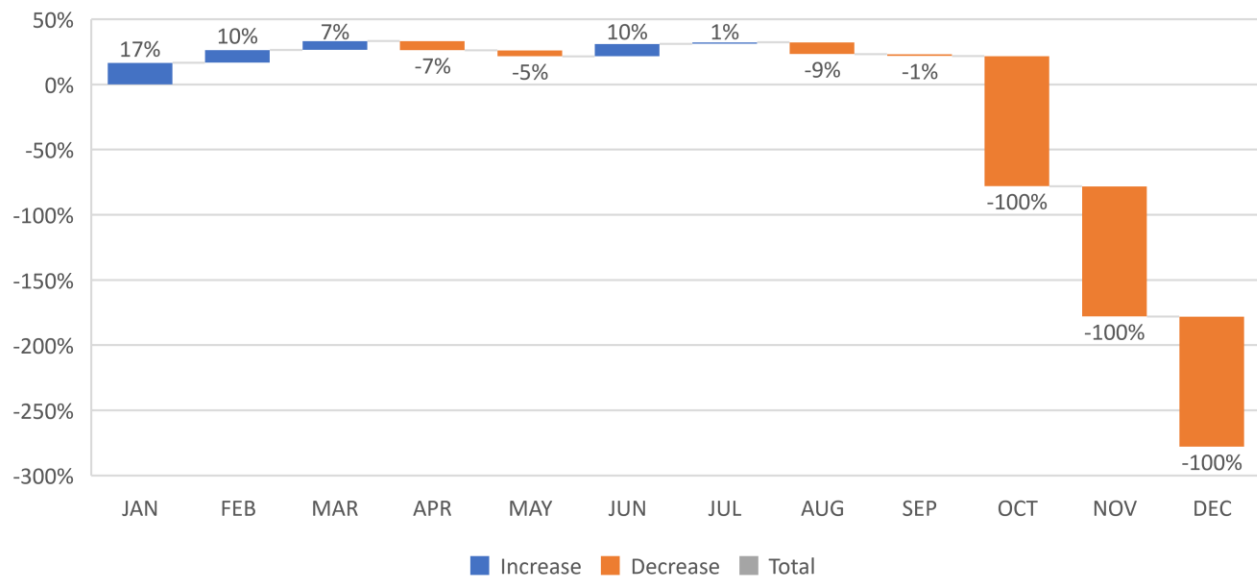
Domestic US LDPE Exports: Year on Year Difference

Domestic US HDPE Exports, Difference

Month	2019	2020	Diff	% Change
JAN	178328.746	207764.712	29435.966	17%
FEB	183459.653	201674.875	18215.222	10%
MAR	197318.6	210838.309	13519.709	7%
APR	201729.381	187326.6	-14402.781	-7%
MAY	211721.279	201675.063	-10046.216	-5%
JUN	190402.28	208670.553	18268.273	10%
JUL	203218.113	205982.454	2764.341	1%
AUG	207616.396	188667.161	-18949.235	-9%
SEP	175939.33	173538.297	-2401.033	-1%
OCT	189577.85	0	-189577.85	-100%
NOV	168986.13	0	-168986.13	-100%
DEC	187748.453	0	-187748.453	-100%

- Exports of US LDPE have increased month to month from year 2019 to 2020, with exceptions seen during the months of April, May, August and September.
- US LDPE January exports increased 17%, February showed a 10% increased while March up 7%.
- April exports decreased 7% year on year, May exports were down 5%, data showed
- June exports went up 10% whereas July was almost even with a slight increase of 1%
- August exports went down 9% and September decreased 1%, data from the latest USITC showed

US LDPE Exports 2020 -vs- 2019 Change (%)



Conclusions

- Using a combination of Excel and Power BI is a powerful tool to manipulate data and to use it to generate graphs to facilitate analysis
- 2020 exports of domestic US HDPE have increased when comparing with year 2019, the latest data from the United States International Trade Commission (USITC) showed. Data for year 2019 comes from January to December, whereas data for year 2020 is available from January to September.
- The first and second quarter have seen a steady increase in exports. Exports have been decreasing mildly during third quarter of this year. The report of exports for the fourth quarter is still pending. However, we can infer that after the last quarter results, total exports for the year 2020 increased.
- Latin America continue leading the main destination for the US HDPE exports, the latest report from the USITC showed. Latin America is leading at 35.4% followed by Asia at 15.3%, European Union at 14.3%, South East Asia at 13.7%, North America (Canada) at 9.4% and Africa at 7.7%.
- SEA is shifting from being the second main destination in year 2019 to jump into the fourth position during year 2020. Asia is taking the second position in 2020, and getting the lead over SEA.
- Mexico at 487,362 metric tons (or 16.56%) is the leader as the main destination of the US HDPE exports during year 2020. Mexico is followed by China at 384,822 metric tons (or 13.08%). Canada with 277,524 metric tons (or 9.43%) continue in the ranking as the third main destination for the US HDPE exports. Belgium at 133,038 metric tons (or 4.5%) and Brazil with 131,756 metric tons (or 4.48%) are located in the fourth and fifth position, respectively. Colombia with 113,513 metric tons (or 3.86%) set in the fifth position as one of the most important destinations for the US HDPE exports during year 2020.
- China did a remarkable jump moving from the seventh position in year 2019 to become the second main player of the US HDPE exports in year 2020. This event should be attributed mainly to the trade war between US and China seen during 2018 and 2019. China offered waivers of extra tariffs imposed on US Polyethylene (PE), subject to certain conditions and approval by its Ministry of Finance. Chinese importers who applied for a waiver, were able to pay the pre-trade war duty of 6.5% on the material instead of the entire tariff, according to public information found in web pages.
- 2020 exports of domestic US LDPE have increased when comparing with year 2019, data from the USITC showed. Data for year 2019 comes from January to December, whereas data for year 2020 is available from January to September.
- The first quarter saw an increase in exports while second quarter saw a mild decrease, compared to same period last year. Exports have been decreasing during third quarter of this year. The report of exports for the fourth quarter is still pending. After the last quarter is issued, at this point is uncertain how the final result for the year 2020 would be. Therefore, it is extremely important to continue watching the final report for this year.
- Latin America continue leading the main destination for the US LDPE exports, the latest report from the USITC showed. Latin America is leading at 38.5% followed by Asia at 19.4%, South East

Asia at 12.4%, European Union at 10.7%, North America (Canada) at 9.8%, Middle East at 3.9% and Africa at 3.7%. The same ranking was seen during year 2019, with no new events happening in the ranking.

- Mexico at 266,065 metric tons (or 14.9%) is the leader as the main destination of the US LDPE exports during year 2020. Mexico is followed by China at 239,867 metric tons (or 13.43%). Canada with 174,073 metric tons (or 9.75%) continue in the ranking as the third main destination for the US LDPE exports. Brazil at 104,368 metric tons (or 5.84%) and Colombia with 87,133 metric tons (or 7.88%) ranked fourth and fifth, respectively, among the main destinations for the US LDPE exports during year 2020.
- Belgium at 84.484 metric tons (or 4.73%) and Vietnam 78.381 metric tons (or 4.39%) ranked sixth and seventh, respectively, in the ranking.
- Vietnam did a remarkable down trend, moving from position fourth in 2019 to the seventh so far in 2020, data from USITC showed.
- Power BI is a tool that facilitates the usage, manipulation, display of data and allows easy creation of graphs for analysis. Thanks to this tool I was able to evaluate the data from original files, create several indicators to finally select the most descriptive and important indicators to communicate key information to the audience. File in power point is attached showing slides from Power BI for easy analytical illustration.