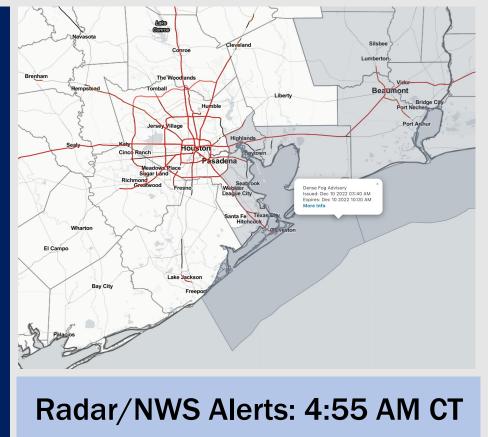
Houston Pilots Forecast Package

Saturday, December 10, 2022

Forecaster: John Kemper

Weather Headlines

- Hit and miss pockets of drizzle will be possible the next few days with a substantial shot of rain coming in late this evening into the early morning hours of Sunday.
- Winds will generally stay within the 5 15 kt range over the next two days. Winds will be out of the ESE/SE today and flip from the NW late Sunday morning. Winds will then shift back to the SE again sometime Monday afternoon.
- Fog chances will be at play over the next 36 hours. Please check out the slides below where we try to nail down timing as best as possible. General confidence is very low at this time. Monday AM has patchy fog chances as well.



Houston Pilots

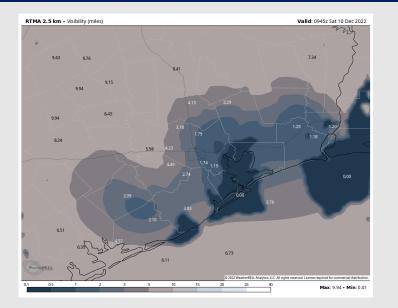


As always, please do not hesitate to reach out to us with any forecast questions via the chat option on the Weather Porthole or our on-call number, (317)-560-8122 press 1 for forecast questions.

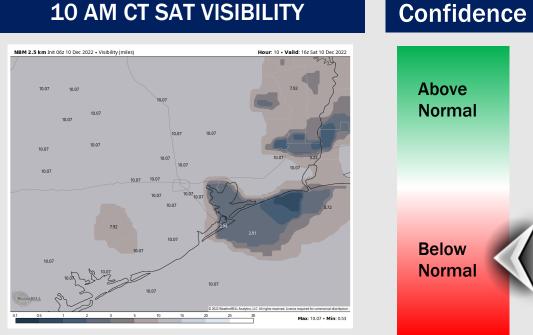
Houston Pilots Visibility Report



Current VISIBILITY



10 AM CT SAT VISIBILITY



Reduced Visibility Threat

NOW - 12 PM SAT

Medium

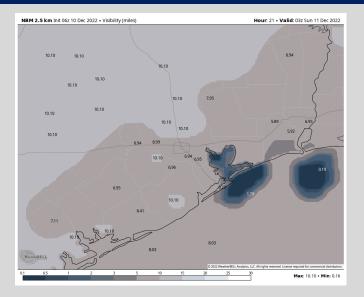
- Very low confidence with both periods as there is a wide discrepancy in model data.
- Areas of dense fog will likely continue for all pilot locations N of the \triangleright Boarding Station through 10AM-CT. Patchy dense fog for the boarding station / alpha-bravo will continue to remain possible.
- Favoring sea fog to gradually diminish after 10AM-CT, with visibility improving to 3-5 miles for majority of locations. Can't rule out pockets of patchy, dense fog for locations N of Morgan's point, but should remain fairly isolated. Lower confidence beyond 10AM at this time.
- Periods of light showers through the afternoon and more easterly winds will likely continue to limit fog chances through 9PM-CT Saturday Evening (See Next Slide for Latest Thoughts on Saturday Night)

Houston Pilots Visibility Report

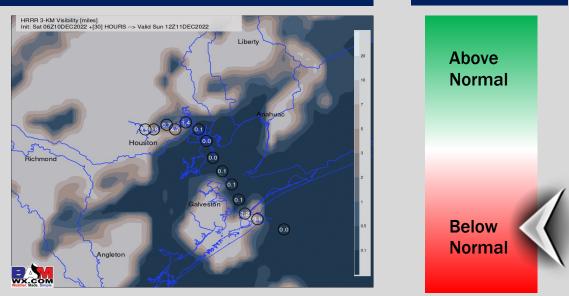


Confidence

9 PM CT SAT VISIBILITY



6 AM CT SUN VISIBILITY



Reduced Visibility Threat

9 PM SAT - 10 AM SUN

Medium

- Favoring patchy, dense fog to begin to build for locations
 S of Morgan's Point by 9PM-CT. As with this previous
 Friday night, lower confidence exists for timing in terms of when visibility risk will initiate.
- Favoring widespread, dense fog to be of greatest risk
 between 12AM-CT 4AM-CT Sunday. By 6AM-CT, fog
 risk will become more patchy for all locations, but lower
 confidence remains as to when risk will end in morning.
 Based on latest data, favoring the 9AM-CT time frame.

Houston Pilots Extended Range Visibility Report



Tuesday 12/13/22

Anticipating winds to remain out of the SW pending an approaching front. Wind speeds may have a determining factor on fog formation as they will be on the cusp of being too strong for fog. The signal for widespread fog both Monday and Tuesday is not nearly as strong as it was over the past several days, thus leading to some lower confidence.

Wednesday 12/14/22

Anticipating winds to shift from out of the NW Wednesday from a cold front passage. This will bring an end to fog potentials.

Confidence Above Below Normal Normal	Confidence Above Normal	Below Normal		
Thursday 12/15/22	Chance for Reduced Vis	sibility		
	Tuesday AM	Possible		
Northwesterly dry air expected. No fog concerns.	Tuesday PM	Possible		
Northwesterry dry an expected. No log concerns.	Wednesday AM	Unlikely		
	Wednesday PM	Unlikely		
Confidence	Thursday AM	Unlikely		
Above Below Normal Normal	Thursday PM	Unlikely		

Houston Pilots Visibility Report





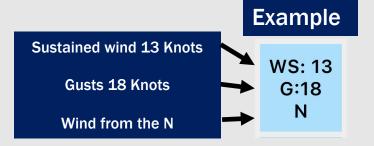
Time	Sat 4am	Sat 5am	Sat 6am	Sat 7am	Sat 8am	Sat 9am	Sat 10am	Sat 11am	Sat 12pm	Sat 1pm	Sat 2pm	Sat 3pm	Sat 4pm	Sat 5pm	Sat 6pm	Sat 7pm	Sat 8pm	Sat 9pm	Sat 10pm	Sat 11pm	Sun 12am	Sun 1am	Sun 2am	Sun 3am	Sun 4am	Sun 5am	Sun 6am	Sun 7am	Sun 8am	Sun 9am	Sun 10am	Sun 11am	Sun 12pm	Sun 1pm	Sun 2pm	Sun 3pm
610 Bridge	0.77	0.7	0.7	1	0.53	7	10	10	10	10	10	10	10	10	10	10	10	8	6	5	4	2	0.52	0.52	0.28	0.24	0.24	0.28	0.13	0.31	3	6	10	10	10	10
Kinder 1	0.88	0.73	0.68	1	0.58	7	10	10	10	10	10	10	10	10	10	10	10	8	6	5	4	2	0.84	0.52	0.28	0.24	0.24	0.34	1	0.47	3	6	10	10	10	10
Greens Bayou	2	2	0.53	0.86	1	7	10	10	10	10	10	10	10	10	10	10	10	8	6	6	4	3	1	0.61	0.45	0.24	0.24	0.36	1	0.75	4	6	10	10	10	10
Shell Crude	0.88	0.73	0.45	0.69	0.58	7	10	10	10	10	10	10	10	10	10	10	10	8	6	5	4	3	3	0.61	0.28	0.24	0.24	0.36	1	0.75	4	6	10	10	10	10
Lynchburg Ferries	1	0.73	0.29	0.56	0.29	6	10	10	10	10	10	10	10	10	10	10	10	8	6	5	4	3	3	0.61	0.36	0.24	0.24	0.36	1	0.75	4	6	10	10	10	10
Exxon 3	0.77	0.53	0.29	0.29	0.29	5	10	10	10	10	10	10	10	10	10	10	10	7	6	4	3	3	3	0.61	0.28	0.24	0.24	0.36	1	0.75	4	6	10	10	10	10
Morgans Point	0.77	0.53	0.29	0.29	0.29	4	9	10	10	10	10	10	10	10	10	10	9	7	5	4	4	3	3	1	0.28	0.24	0.24	0.36	1	2	4	6	10	10	10	10
75/76	0.77	0.53	0.29	0.29	0.29	4	9	10	10	10	10	10	10	10	10	10	8	6	4	3	4	3	3	3	0.28	0.24	0.24	0.36	1	1	4	6	10	10	10	10
63/64	0.77	0.53	0.29	0.29	0.29	1	6	10	10	10	10	10	10	10	10	10	7	6	4	4	4	3	4	4	0.28	0.24	0.24	0.28	1	1	3	6	10	10	10	10
51/52	0.53	0.53	0.29	0.29	0.29	0.93	2	10	10	10	10	10	10	10	10	10	8	6	4	4	4	3	4	4	0.28	0.24	0.89	0.53	0.89	1	3	6	9	10	10	10
37/38	0.53	0.53	0.29	0.29	0.29	0.53	1	8	10	10	10	10	10	10	10	10	9	6	5	4	4	3	3	4	0.28	0.24	0.89	2	0.3	1	4	6	9	10	10	10
25/26	0.53	0.53	0.29	0.29	0.29	0.53	1	2	9	10	10	10	10	10	10	10	9	6	5	4	4	3	3	3	0.57	0.24	0.99	4	1	3	5	6	8	10	10	10
11/12	0.53	0.53	0.53	0.46	0.29	0.53	1	2	6	10	10	10	10	10	10	10	9	6	5	4	3	2	2	4	0.28	0.24	1	4	1	2	4	6	7	10	10	10
1 & 2 Bravo	0.77	0.53	0.53	0.29	0.29	0.53	1	2	2	6	6	7	9	8	10	10	5	3	5	5	5	4	1	6	0.24	0.22	0.81	4	0.86	0.46	2	4	5	5	5	7

Please check visibility slides above for official thinking on fog as the chart is likely not perfect.

Houston Pilots Wind Report







Sat 4am	Sat 5am	Sat 6am	Sat 7am	Sat 8am	Sat 9am	Sat 10am	Sat 11am	Sat 12nm	Sat 1pm	Sat 2pm	Sat 3pm	Sat 4pm	Sat 5pm	Sat 6pm	Sat 7pm	Sat 8pm	Sat 9nm	Sat 10pm	Sat	Sun 12am	Sun 1am	Sun 2am	Sun 3am	Sun 4am	Sun 5am	Sun 6am	Sun 7am	Sun 8am	Sun 9am	Sun 10am	Sun 11am	Sun 12nm	Sun 1pm
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SSE	SSE	SE	SE	SE	SSE	SSE	SSE	s	ssw	ssw	s	s	s	SSE	SE	SE	SE	SE	SE	SE	SE	SSE	SSE	s	NNW	sśw	NNW	NNW	sśw	Ĕ	É	Ň	Ň
4	3	4	5	5	6	5	6	6	7	7	8	8	8	7	6	5	4	4	3	3	3	3	3	2	3	3	3	3	4	4	4	4	4
12 SSE	10 SSE	10 SE	11 SE	13 SE	12 SSE	12 SSE	12 SSE	11	9	9 S	11 S	11 S	13 SSE	13 SSE	10 SE	9 SE	7 SE	8 SE	8 SE	8 SE	7 SE	6 SSE	6 SSE	6 S	7 WNW	7 SSW	6 N	6 NNW	6 SSW	6	6	5 N	5 N
5	4	5	5	3E 6	53E 6	5	55E 6	6	7	8	9	8	33E 8	33E 7	6	5	4	4	4	3	3	335	335	2	3	330	3	3	4	4	4	4	4
1 12	10	10	13	13	12	11	12	11	10	10	12	13	15	14	10	9	7	7	8	7	7	6	6	6	7	7	6	6	6	6	5	5	5
SSE	SSE	SE	SE	SE	SE	SSE	SSE	SSE	S	S	SSE	SSE	SSE	SSE	SE	SE	SE	SE	SE	SE	SSE	SSE	SSE	S	WNW	NW	NNW	N	SSW	ENE	E	N	NNW
5 12	5 10	5 10	5 12	6 13	6 12	5 11	5 12	6 12	8 11	8 11	8 12	8 13	8 15	7 14	7 10	5 8	5	4	4 7	4	4 7	3	3 6	3	4	4 7	3	4	4	4 5	4	4	5
SSE	SSE	SSE	SSE	SE	SSE	SSE	SSE	SSE	s	SSE	SE	SSE	SSE	SSE	SE	SE	ŚE	ŚE	ŚE	SSE	SSE	SSE	SSE	š	wśw	ŃŴ	NNW	NNW	Ň	ENE	ESE	Ň	Ň
5	5	5	5	6	6	5	5	6	8	8	8	8	8	7	8	7	6	6	6	6	5	4	4	4	5	5	5	5	5	5	4	4	5
12	10	9	13	13	12	11	11	12	11	11	12	13 SSE	15 SSE	15	10	9	9	8	8 SE	8 SSE	8	7	6	7	7	7	6	6	6	6	6	5	6
SSE 5	SSE 5	SSE 5	SSE 5	SSE 6	SSE 6	SSE 5	SSE 5	SSE 6	SE 8	SSE 8	SSE 8	55E 8	55E 8	SSE 7	SE 8	SE 7	SE 6	SE 6	5E 6	55E 6	SSE 5	SSE 5	SSE	4	WNW 5	NW 5	WNW 5	5	SW 5	ENE 5	ESE 4	4	NNW 5
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SSE	SSE	SSE	SE	SSE	SSE	SSE	SSE	SSE	SE	SE	SE	SE	SE	SSE	SSE	SSE	SSE	S	w	SSW	WNW	SW	N	ENE	ESE	SW	N						
6 11	5 11	5 11	5 12	6 14	6 13	5 10	4 11	6 12	7	8 12	10 13	9 14	9 15	7 13	7 10	6 10	6 10	6	5	5 9	5	5	4	4	4	5	4	4	4	4	5	4	5
SSE	SSE	SSE	SSE	SE	SSE	ssw	w	SE	SE	SSE	SSE	SSE	SSE	SSE	SE	SE	SE	SE	SE	SSE	SSE	SSE	SSE	ś	ŝ	sw	ŃŴ	wsw	N	ENE	ESE	SSE	Ń
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SSE 7	SSE	SSE	SSE 5	SE 7	SSE 8	SSW	W	S 5	SE 7	SE 9	SSE 10	SSE 10	SSE 9	SSE 9	SE 7	SE 7	SE 7	SE 7	SE	SSE 6	SSE 6	SSE	SSE 5	SSE 5	5	5W 4	NW	WNW 5	NNW	N 5	SE	55W	N 5
11	11	10	11	13	13	11	8	9	ý	12	13	14	14	13	10	10	10	10	10	10	9	9	8	7	7	7	6	6	6	7	7	7	7
SSE	SSE	SSE	SSE	SE	SSE	SSE	wsw	SSE	ESE	SE	SSE	SSE	SSE	SSE	SE	SE	SE	SE	SE	SSE	SSE	SSE	SSE	SSE	S	SSW	WNW	NNW	wsw	N	SE	S	Ν
6	6	5	6	8	8	8	6 8	5	6	8	9	11	9	9	7	7	7	7	7	7	6	6	6 8	5	4	4	5	5	4	5	5	5	6
11 SSE	12 SSE	11 SSE	12 SSE	13 SE	13 SE	11 SE	SSE	SSE	SE	11 SE	12 SE	14 SSE	13 SSE	13 SSE	10 SE	11 SE	11 SE	10 SE	10 SE	10 SSE	9 SSE	SSE	SSE	SSE	ś	sśw	NNW	N	5 NW	Ń	wnw	SSE	Ň
6	6	5	6	8	8	8	6	5	6	8	9	11	9	9	7	7	7	7	7	7	6	6	6	5	5	4	5	5	5	5	5	5	6
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SSE	SSE	SE	SE	SE 8	SE 8	SE	SE	SE 5	SE	SE 7	SE 9	SSE 11	SE	SE 8	SE	SE	SE 8	SE	SE	SSE 7	SSE	SSE	SSE	SSE	S	S	NNW	N	N	N	N	SE	N
11	11	5 11	6 13	14	13	11	6 8	7	6 8	9	11	14	8 12	13	8 10	8 11	11	11	10	10	9	6 9	6 9	5 8	7	7	6	6	7	7	7	5	7
SSE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SSE	SSE	SSE	SSE	SSE	S	S	w	N	Ň	S	N	SE	NNW
7	7	5	7	9	9	7	6	5	6	6	7	9	7	8	8	8	8	8	7	7	7	7	7	6	5	4	5	5	5	5	5	5	5
12 SSE	12 SE	12 SE	14 SE	15 SE	14 SE	12 SE	10 SE	9 SE	10 SE	10 SE	12 SE	14 SE	13 SE	14 SE	10 SE	11 SE	11 SE	11 SE	11 SE	10 SSE	10 SSE	10 SSE	9 SSE	8 SSE	Ś	7 SSW	7 SW	6 SSF	7 NNW	7 SE	N	SE	ŵ
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SE	SE	SE	ESE	ESE	ESE	SE	SE	SE	ESE	E	ESE	SE	SE	SE	SSE	SSE	SSE	SE	SSE	SSE	NNW	SE	S	SSE	S	N	SSE						

Houston Pilots: Sat. 12/10/2022



Forecast Discussion

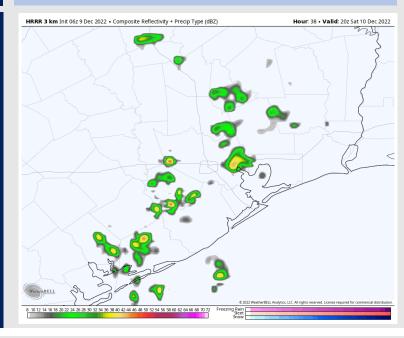
Precip: Dry conditions until 12 PM on Saturday. From 12 - 2 PM, 20-30% chance of scattered showers/storms around the area, with coverage increasing to 70-80% after 2 – 6 PM and continuing throughout the rest of the evening.

Wind: Sustained winds out of the S/SE throughout the day. Winds at 5-10 kts until 11 AM. From 11 AM – 5 PM, winds will increase to 8-13kts. After 6 PM, winds will calm down to 2-7 kts throughout the rest of the evening.

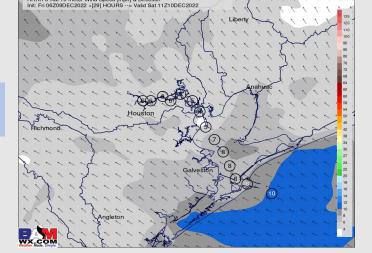
Temps: High temperatures for Saturday will be near 80 F/high 70's north of the boarding station and low 70's near the boarding station.

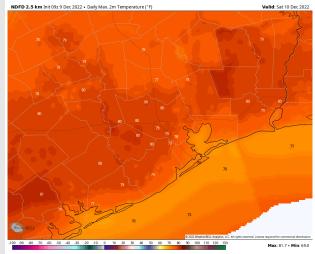
Visibility: Patchy fog is possible during the AM hours, with lower confidence on fog risks through the evening Saturday into Sunday. More details found on fog slide above.

Precip Forecast: 8 PM CT



Wind Speed 5 AM CT





High Temps Saturday

Houston Pilots: Sun. 12/11/2022



Forecast Discussion

Wind Speed

3 PM CT

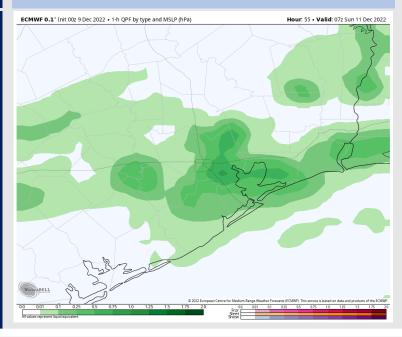
Precip: Anticipating Saturdays scattered showers/storms to continue into Sunday lasting until 7 AM CT at ~70% coverage. After 7 AM favoring chances for scattered showers/storms to decrease to 20-40% until 9 AM CT. After 9 AM CT anticipating dry conditions until around 3 PM CT. After 3 PM CT favoring a 10-20% chance for an isolated shower/storm until around 4 PM CT. After 4 PM CT, favoring dry conditions for the rest of the day.

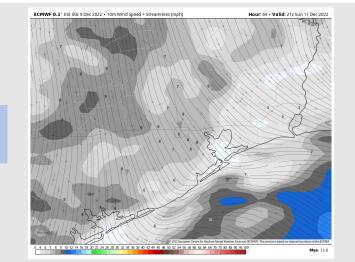
Wind: Anticipating winds to be out of the S early Sunday AM at 4-10 kts. As the morning progresses, winds will become more variable at 1 - 6 kts. Expecting winds to shift out of the N/NW around 10 AM and continue at 1 - 6 kts for the rest of the day.

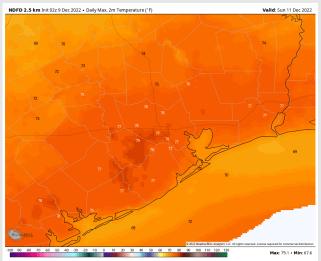
Temps: High temps Sunday will be in the low 70s F near the boarding station and in the mid 70s F at all other locations

Visibility: Patchy dense / widespread dense fog will again be possible this evening and through the overnight.

Precip Forecast: 1 AM CT







High Temps Sunday

Houston Pilots: Mon. 12/12/2022



Forecast Discussion

Wind Speed

7 PM CT

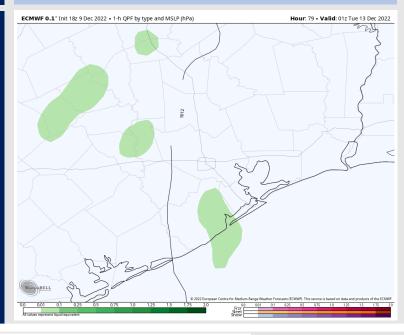
Precip: Anticipating dry conditions for the morning and early afternoon. A 10% chance for a pop-up shower will be possible from 5 PM through 12 AM.

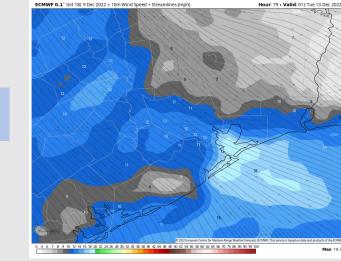
Wind: Winds will begin from the NE in the morning and shift from the East by 10 AM, then finally from the ESE to SE from 2 PM to the remainder of the day. Winds will be at 4 – 9 kts across all stations in the morning, then pickup to 8 – 11 kts by 2 PM. Winds will increase even more S of Morgan's point in the afternoon to 12 – 16 kts by 7 PM and remain as such for the evening.

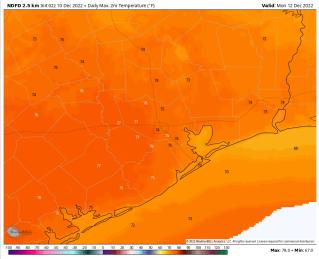
Temps: High temps Monday will be in the mid 70s F north of Morgan's Point and in the low 70s F south of Morgan's Point.

Visibility: A low-end risk for patchy fog will exist in the AM hours mainly north of Morgan's Point, but low confidence exists at the moment. More information will come in future updates.

Precip Forecast: 7 PM CT



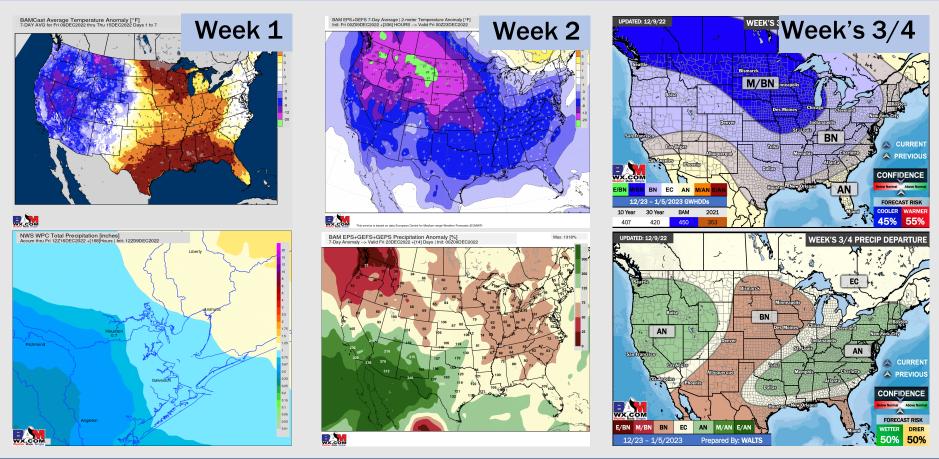




High Temps Monday

Houston Pilots: 12/10/22





- Minor, hit and miss light rain chances will be possible over the weekend with better rain chances moving in towards the end of next week. Anticipating temps staying above average.
- Week 2 is expected to be below normal for temperatures and near normal for rain chances for mid December.
- The weeks ³/₄ timeframe looks to feature below normal temperatures and equal chances to below normal for precipitation.