MASS Prize 2 December 15, 202	20		Scheduled	Actual				Gaps between	US manned flights			Span in days			
Guess Made Name Date	Difference from Actu Date		hen the first US astronauts launched fr	and the cold should					5/15/1963 11/11/1966	first Gemini first Apollo	3/23/1965 10/11/1968	678 700	7	2555 days	
Guess Made Name Date	Date		\$20 Dairy Queen gift card	rom US soll, dock	and enter the ISS			last Apollo	7/15/1975	first Shuttle	4/12/1981	2098		2555 days 2920	
11/11/2016 Dean 7/4/2018 11/11/2016 Phil 1/1/2018	1 697 1 881	C.b. d. 1.	0.4 minute provide a contract of the second se	_	Boeing	SpaceX		last Shuttle	7/8/2011	span to today	12/12/2020	3445	9 yrs =	3285	
1/7/2016 Phil 1/1/2018 1/7/2017 Silvio 7/10/2018	1 691	launch	& Actual Dates as of Nov 18, 2020 test uncrewed capsule & dock to I	55	3/29/2021	3/3/2019		last Apollo/		last Apollo			last Apollo moon	12/7/19	172
11/11/2016 Jim A. 8/2/2017	1 1033				2nd attempt				11/16/1973	Apollo/Soyuz	7/15/1975	606	last Skylab	11/16/19	373
11/11/2016 Keith 8/10/2018 11/11/2016 Jim M. 8/18/2018	1 660 1 652	launch	test crewed capsule & dock to ISS		h	5/31/2020		last Shuttle	11/16/1973 7/8/2011	first Shuttle 1st ComCrew	4/12/1981 5/30/2020	2704 3249	Apollo/Soyuz	7/15/19	175
11/11/2016 Jim M. 8/18/2018 11/11/2016 Carol 8/29/2017	1 1006	launch	test crewed capsule & dock to iss		June 2021	5/31/2020		last shuttle	7/8/2011	1st comcrew	5/30/2020	3249			
1/7/2017 Sophia 1/7/2020	1 145	launch	1st operational crew capsule to IS	s	Winter 2021	11/15/2020									
11/11/2016 Dave 7/4/2018 12/24/2016 Ed 7/4/2018	1 697 1 697	C.b. d. 1.	& Actual Dates as of Sept 1, 2020	_	Boeing	SpaceX		esses were mad				esume flights in Nov 2016		4/20/20	119 anomaly on Dragon2 static test of super Draco thrusters; capsule exploded
12/24/2016 Ed 7/4/2018 11/11/2016 Harry 12/4/2018	1 544	launch	test uncrewed capsule & dock to I	SS	Dec2020/Jan2021	3/3/2019						roubles with a test article		4/20/20	anomaly on bragonz static test of super braco thrusters; capsule exploded
12/10/2016 Kevin 9/26/2017	1 978				2nd attempt		11/8/16 Trur	mp is President	Elected					5/30/20	19 SpaceX will use the DM-2 Dragon capsule for in-flight abort test and the next capsule will be used for DM-2
SpaceX in-flight test 1/19/2020 SpaceX uncrewed 3/3/2019	1 actual 1 actual	launch	test crewed capsule & dock to ISS		Summer 2021	5/31/2020	NAEA plans s	on the Common	rial Graw companies I	being certified by the e	ad of 2018. It has not	ourshared any Source		SpaceX in-flight abort scheduled for end of July 2019 SpaceX crewed flight test might be by year's end if Dragon anomoly is resolved	
Boeing uncrew 12/20/2019	1 actual, needs redo	launun	test crewed capsule & dock to iss		30mmer 2021	5/51/2020			ably to late to do so.	being certified by the e	10 01 2018. 11 1185 1101	. purchaseu any soyuz			Boeing no crewed flight test will be no earlier than end of August 2019 and crewed maybe by year end
SpaceX DM2 crewed 5/31/2020	1 actual	launch	1st operational crew capsule to IS	s	Winter 2021	11/16/2020									Boeing pad abort test scheduled for White Sands in Summer 2019
NASA Need 9/1/2020 SpaceX oper CREW1 11/15/2020	1 1 actual	Schodula	Dates as of January 1, 2020		Boeing	SpaceX	11/4/2016 Musk says Falcon9 launches to resume mid Dec 2016; delayed to Jan 2017.							6/24/20	19 SpaceX has 11/15/19 place holder for DM-2 mission (7 days at ISS with Bob Behnken and Doug Hurley)
Boeing uncrew 2nd 2/15/2021	1 scheduled	launch	uncrewed capsule & dock to ISS		done but no dockin		12/13/2016 After MASS round 2 guesses made, SpaceX announce 6 month delay on their schedule dates							0/24/20	Boeing has uncrewed date of 9/17/19 for 5 days docked to ISS and 11/30/19 for crewed 6 month ISS mission
Boeing crewed 6/15/2021	1 scheduled				12/20/2019	Feb-Mar 2020		/2017 SpaceX resumes launches with Iridium satellites from Vandenberg 7/31/2019 Spa							
Boeing oper mission 12/15/2021	1 scheduled	launch	crewed capsule & dock to ISS		Mar-Jun 2020	Feb-Mar 2020				um satellites from Van est by 4 months from N		18	19 SpaceX has 12/17/19 place holder for DM-2 mission Boeing late Sept 2019 for uncrewed Starliner		
							-,,	.,,.							
Sophia wins!!!		Schedule	Dates as of June 24, 2019		Boeing	SpaceX	7/13/2017	Chris Ferguson	of Boeing hints that	Starliner first manned	mission slipping to 4th	h qtr 2018			D19 Teslarati says in-flight abort test will be 11/10/19 for SpaceX
		launch	uncrewed capsule & dock to ISS		9/17/2019	done	7/20/2017	5		t flight Feb 2018, 1st ci				8/20/20	19 Boeing says uncrewed flight test, OFT, in Oct 2019, pad abort test to be shortly thereafter SpaceX says in-flight abort test Oct or Nov, still hopes DM-2 will occur in 2019
		launch	crewed capsule & dock to ISS		11/30/2019	11/15/2019	//20/201/	spacex scriedu	te says uncrewed tes	t filght Feb 2018, 1st ci	rewed hight June 2018	8			SpaceA says in-hight abort test Oct or Nov, shill hopes DW-2 will occur in 2019 Roscosmos contract expires Sept 2020
							7/20/2017	Boeing uncrew	red in June 2018, 1st	crewed in Aug 2018					
		Schodulo	Dates as of June 1, 2019		Boeing	SpaceX	10/12/2017	SeasoV clins 2	months on unsround	(Apr 2018) & crewed	(Aug 2018) (lights			10/11/20	19 Boeing - pad abort test 11/4/19; uncrewed flight test 12/17/19 landing 12/24/19 in New Mexico crewed flight test unspecified date
		launch	uncrewed capsule & dock to ISS		9/1/2019	done				(Aug 2018) & 3 month		18)			SpaceX - in-flight abort test 11/11/19; 10 successful tests of Mark 3 parachutes by 12/31/19
													crewed flight test 1st qtr 2020		
		launch	crewed capsule & dock to ISS		end of 2019	end of 2019				ission Aug 2018 & crew g 2018 & crewed Nov 2				11/1/20	19 Boeing - crewed flight March-June 2020
								booning amonan	geo las ono enco roj	5 2010 0 0 0 000 000 1				11/1/1	SpaceX - static fire test 11/6/19, in-flight abort test early December, crewed flight test Feb-Mar 2020
			Dates as of March 29, 2019		Boeing	SpaceX	8/1/2018	Boeing thruste	r malfunction on Star	rliner slips uncrewed la	unch by 6 months to S	Spring 2019			
		launch	uncrewed capsule & dock to ISS		8/17/2019	3/2/2019 actual	8/2/2018	SpaceX uncrew	ed flight Nov 2018. f	lirst crewed test flight	Apr 2019			11/4/20	119 Boeing - pad abort test done SpaceX - 13 successful parachute tests completed
		launch	crewed capsule & dock to ISS		Nov 2019	7/25/2019				arly 2019, first crewed					
		Port Cort	ification Mission dates are Aug 2019 a	ed Dec 2010			8/29/2018 NASA need date extended to January 2020 by lengthening upcoming Soyuz missions							11/13/20	119 SpaceX performed the Dragon static fire test to close out the anomaly investigation
		POSECEL	incation mission dates are Aug 2019 a	nu Dec 2019						mo-2 mission and is tra				12/4/20	019 Boeing uncrewed flight test delayed 2 days to 12/19/19
										ement of Japanese BFI 2018 and crewed flight		5		12/20/20	19 Boeing OFT-1 uncrewed Starliner mission didn't dock with ISS
		Schedule	Dates as of August 2018		Boeing	SpaceX		uncreared brag		2010 und crewed high	c in 210 qu 2015			1/19/20	120 SpaceX in-flight abort test went well; more chute tests; hardware ready end of Feb;
		launch	uncrewed capsule & dock to ISS		late 2018 to	Nov 2018				K uncrewed Jan 2019, c					DM-2 flight 2nd quarter 2020 per Musk; NASA needs to decide if 2 week or long duration
		launch	crewed capsule & dock to ISS		mid 2019	Apr 2019				d Aug 2019; 1st PCM fl re flights that will deliv				5/30/20	120 DM-2 launches with Doub Hurley & Bob Behnken
									monthly status on so						5/31/20 docks to ISS
		Anticipat	ed NASA certification		Feb 2020	Dec 2019	11/30/2019	Bridenstine co	e iccup with Snood	using an uncertified pa	rachuta comnami mink	ht cause			8/1/20 undocks from ISS 8/2/20 splashes down in the Gulf of Mexico, 64 days in space
								DM-1 mission	to slip from Jan 7, 20	19 to Spring. Only one	certified chute compa				
			Dates as of August 2016		Boeing	SpaceX		having trouble	suppling SpaceX, Bor	eing and Orion parachu	ite needs.			8/21/20	120 SpaceX operational CREW1 mission with 4 astronauts delayed to Oct 23, 2020
		launch	uncrewed capsule dock to ISS		Dec 2017	May 2017	12/8/2018	DM-1 mission	delayed from 1/7/19	to 1/17/19 to deconfli	ict with CRS-16 resume	v mission			delay from end of September is to avoid conflict with other ISS traffic
		launch	crewed capsule dock to ISS		Feb 2018	Aug 2017								8/26/20	20 Boeing says second unmanned Starliner test OFT-2 in Dec 2020 or Jan 2021 and
			Contract for Soyuz capsule expirat	ion outondod	0.00	ril 2020			 1 by SpaceX schedul nutdown effect uncer 	ed for Feb 9, 2019 abo	ut a 1 month delay fro	om Jan 2019			crewed test mission in Summer of 2021, operational mission Winter 2021
			Andrew Morgan to launch July 6,			11 2020		Government si	iutuowii eriett untei	cani.				9/29/20	320 SpaceX operational CREW1 mission delayed to Oct 31, 2020
			on April 2020 (MS-15) extending t	the nominal 6 mc	onth					ceX to Mar 2, 2019 and					will give more time to troubleshoot small air leak
			mission to 9 months Contract again extended to		Ap	ril 2021		crewed launch	for spacex pushed b	ack 1 month to July 20	19, воеing stays at Au	18 2013		10/10/20	020 CREW1 delayed to Nov 1-21, 2020, need a review of Falcon9 gas turbine pressure
			Chris Cassidy launches April 9, 202	20 (MS-16) and re						ul DM-1 mission launch					
			on Oct 21, 2020	0 (845 47) and an		purchased Sovuz seat				7/25/19 (1 month dela				10/14/20	120 Kate Rubins launched on Soyuz, possibly the last NASA paying astronaut to do so.
			Kate Rubins launches Oct 14, 2020 in April 2021	u (mi5-17) and rel	urns las	i purchased Soyuz seat			/ 2019 (3 month dela	17/19 (4 month delay f y from August)	nom April) and manne	eu ingrit			NASA anticipates Russians to launch on Commercial Crew vehicles and our astronauts to launch on Soyuz under a trade agreement.
														10/27/20	220 CREW1 launch set for Nov 14, 2020
														11/15/20	D20 CREW1 launches and docks to ISS on 11/16/20 with a 6 month crew of 4
														120 OFT-2 delayed to first quarter of 2021	
														11/18/20	20 OF 1-2 belayed to hist qualiter of 2021

12/11/2020 Boeing says OFT-2 set for March 29, 2021

	M	ASS Pri	ze (rou	nd 2) S	Sep 2	020 S	tatus	guesse	s made I	Nov 201	6 to Jan 20	17								pawa										wed	ght abort				Na -	-			*
	A mil	Carol	Kevin		7	I						Dean, Dave 8 Silvio	Keith lim M				Harry			SpaceX uncre DM1 act ual										Boeing uncre failed to dock Sophia	SpaceX In-fil actual				SpaceX 1st cre	DM2 actua		NASA Need Sept 2020	Boeing 2nd Boeing 1st cre
100% -					<u> </u>	-																																	
0% + 7/1/2	017 8/1/2	2017 9/1/201	10/1/2017 1	1/1/2017 12/1	/2017 1/1/	2018 2/1/	2018 3/1/2	1018 4/1	/2018 5/1	1/2018 6	/1/2018 7/1	2018 8	8/1/2018	9/1/2018	10/1/2018	11/1/2018	3 12/1/20	18 1/1/2019	2/1/2019	3/1/2019	4/1/2019	5/1/2019	6/1/2019	7/1/2019	8/1/2019	9/1/2019	10/1/201	9 11/1/20	019 12/1/20	9 1/1/2020	2/1/202	0 3/1/2020	4/1/2020	5/1/20	020 6/1/20	020 7/1/2	020 8/1/202	:0 9/1/202	10