

Mayflower – Passengers and Crew

The Mayflower was a typical English merchant ship of the early 17th century – square-rigged and beak-bowed, with high, castle-like structures fore and aft that served to protect the ship's crew and the main deck from the elements. But having on her stern such structures as the 30-foot high, square aft-castle made the Mayflower extremely difficult to sail against the wind.

The Mayflower measured about 100 feet in length from the forward end at the beak of her prow aft to the tip of her stern superstructure. She was about 25 feet at her widest point, with about 12 feet of keel below the waterline. It had a cargo volume of about 180 tons.

Normally, the Mayflower's cargo was wine and dry goods. What is known on the basis of records from that time that have survived is that she could certainly accommodate 180 casks of wine in her cargo hold. The casks were great barrels that each held hundreds of gallons of claret wine.

This was a ship that traditionally was heavily armed while on trading routes around Europe due to the possibility of encountering pirates and privateers of all types. And with its armament, the ship and crew could easily be conscripted by the English monarch at any time in case of conflict with other nations.

The ship had three primary levels main deck, gun deck and cargo hold. The Mayflower had three masts. Aft on the main deck in the stern was the cabin for Master Christopher Jones, measuring about ten by seven feet. Forward of that was the steerage room, which housed a whipstaff (tiller extension) for sailing control – not a wheel, as in later ships

Forward of the steerage room was the capstan – a vertical axle used to pull in ropes or cables. Far forward on the main deck just aft of the bow was the forecastle space where the ship's cook prepared meals for the crew; it may also have been where the ship's sailors slept.

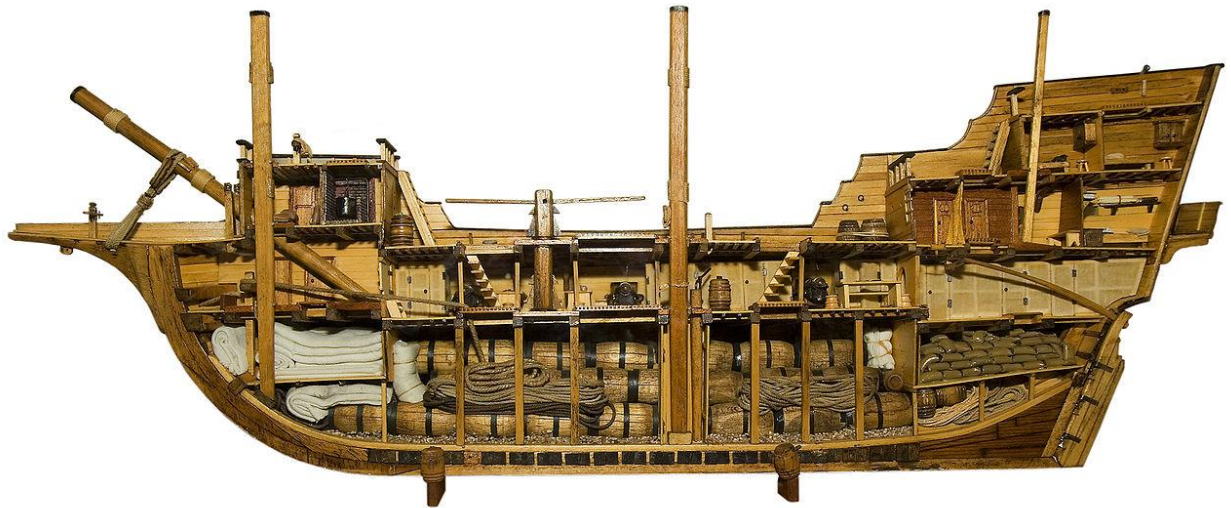
Above the cabin of Master Jones, on the highest ship's level above the stern on the aft castle, was the poop deck, on which was the poop house, which may have been for passengers' use either for sleeping or cargo. On normal merchant ships this space was likely a chart room or a cabin for the master's mates.

The gun deck ("tween deck" or the area "betwixt the decks") was where the passengers resided during the voyage in a space measuring about fifty feet by twenty-five feet with a five foot overhead (ceiling). In the stern area of the gun deck was the gun room, to which passengers had no access due to it being the storage space for powder and ammunition for the ship's cannons and any other guns or weapons belonging to the ship.

The gun room might also house a pair of 'stern chasers' – small cannons used to fire out the stern of the ship. Forward on the gun deck in the bow area was a windlass – equipment similar in function to the capstan in steerage – which was used to raise and lower the ship's main anchor. There was no stairs for the passengers on the gun deck to go up through the gratings to the main deck. To get up to the main deck, passengers were required to climb a wooden or rope ladder.

There was no facility for a latrine or privy on the Mayflower and ship's crew had to fend for themselves in that regard. Gun deck passengers most likely used a bucket-turned-chamber pot affixed to the deck or bulkhead to keep it from being jostled at sea.





Mayflower Cross Section – ‘The Pilgrim Fathers - The Mayflower and Speedwell in Southampton in 1620’

The largest gun was a minion cannon, which was brass, weighed about 1,200 pounds, and could shoot a 3.5 pound cannonball almost a mile. The Mayflower also had on board a saker cannon of about 800 pounds, and two base cannons that weighed about 200 pounds which shot a 3 to 5 ounce ball. She carried at least ten pieces of ordnance on the port and starboard sides of her gun deck – seven cannons for long range purposes and three smaller guns (filled with musket balls) often fired from the stern at close quarters.

After they arrived at New Plymouth, Mayflower Master Jones unloaded four of the pieces to help fortify the colony against invaders and would not have done so unless he was comfortable with the armament he still had on board.

Below the gun deck was the cargo hold where the passengers kept most of their food stores and other supplies. Other items included most of their clothing and bedding. The hold also stored the passengers' personal weapons and military equipment – armor, muskets, gunpowder and shot, as well as swords and bandoliers. Also all the tools the Pilgrims would need, as well as all the equipment and utensils needed to prepare meals in the New World. It is also known that some Pilgrims such as Allerton and Mullins, and possibly others, loaded trade goods on board, with these also most likely being stored in the cargo hold.

Passengers and Crew

There were 102 passengers on the Mayflower including 37 members of the separatist Leiden congregation who would go on to be known as the Pilgrims, together with the non-separatist passengers.

There were 74 men and 28 women - 18 were listed as servants, 13 of which were attached to separatist families. There are thought to have been 31 children on the Mayflower, with one child being born during the voyage (named Oceanus). The crew were led by Captain Christopher Jones, but it is unknown just how many crew there were.

Almost half the people on-board the ship were fare paying passengers seeking a new life and not driven by religious convictions. (The following is the passenger listing by Bradford)

The names of those which came over first, in y^e year 1620.
and were (by the blessing of god) the first beginners, and
(in a sort) the foundation, of all the plantations, and
Colonies, in New-England. (And their families.)

8.	m ^r John Carver. Kathrine his wife. Devere winter; & 2. man-servants John Howland. Roger Wilder. William Latham, a boy, & a maid servant, & a child & was put to him called Jasper More	2.	Captin myles Standish and Rose, his wife
6.	m ^r William Brewster. Mary his wife, with 2. sons, whose names were Loue, & Wrasling, and a boy was put to him called Richard More; and another of his brothers the rest of his children were left behind & came over afterwards.	4.	m ^r Christopher martin, and his wife; and 2. servants, Salamon promoter, and John Langemore
5.	m ^r Edward Winslow Elizabeth his wife, & 2. men servants, called Georg Somle, and Elias Story; also a little girl was put to him called Ellen, the sister of Richard More.	5.	m ^r William Mullins, and his wife; and 2. children Joseph, & priscila; and a servant Robert Carter.
2.	William Bradford, and Dorothy his wife, having but one child, a son left behind, who came afterwards.	6.	m ^r White William White, and Susana his wife; and one son called resolved, and one borne a ship-board called perigriene; & 2. servants, named William Holbeck, & Edward Thomas
6.	m ^r Jaack Allerton, and Mary his wife; with 3. children Bartholmew Remember, & Mary. and a servant boy, John Hooke.	8.	m ^r Hopin Steven Hopkins, & Elizabeth his wife; and 2. children, called giles, and Constantia a daughter, both by a former wife. And 2. more by this wife, called Damaris, & Oceanus, the last was borne at sea. And 2. servants, called Edward Doty, and Edward Lister
2.	m ^r Samuel fuller; and a servant, called William Butten. His wife was behind & a child, which came afterwards.	1.	m ^r Richard Warren, but his wife and children were left behind and came afterwards
2.	John crakston, and his son John crakston.	4.	John Billinton, and Elen his wife; and 2. sons John, & Francis.
		4.	Edward Gillie, and Ann his wife, and 2. children that were their Cosens; Henery samson, and Humil ity Coper
		3.	John Gillie, and his wife; and Elizabeth their daughter.

2.	Francis Cooke, and his sone John; but his wife & other children came afterwards.	John Alerton, and Thomas English were both hired the later to go in of a shalop here, and 3 other was reputed as one of y ^e company, but was to go back (being a seaman) for the help of others behind. But they both dyed here, before the shipe returned.
2.	Thomas Rogers, and Joseph his sone; his other children came afterwards.	There were also other 2. seamen hired to stay a year here in this Country, William Trewore, and one Ely. But when their time was out they both returned.
2.	Thomas Tinker, and his wife, and a sone	
2.	John Rigdale, and Alice his wife.	
3.	James Thilton, and his wife, and Mary their daughter; they had another daughter & was married came afterwards.	These being aboute a hundred souls, came over in this first ship; and began this worke, which god of his goodnes hath hitherto blessed. Let his holy name have praise.
3.	Edward fuller, and his wife; and Samuel their sone.	And seeing it hath pleased him to give me to see 30. years completed, since these beginnings. And that the great works of his providence are to be observed. I have thought it not unworthy my paines, to take a view of the decreasing, & increasing of these persons, and such changes as hath passed over them, & theirs, in this thirty years. It may be of some use to such as come after; but however ^{of that rest in my owne} benefite.
3.	John Turner, and 2. sones; he had a daughter came some years after to Salem, where she is now living.	
3.	Francis Eaton, and Sarah his wife, and Samuel their sone, a young child.	
10.	Moses Fletcher John Goodman Thomas Williams Vigorie preist Edmond Margeison Peter Browne Richard Britterige Richard Clarke Richard Gardener Gilbert Winslow	I will therefore take them in order as they ly.
1.	John Alden was hired for a Cooper, at South-Hampton, where the ship victualled; and being a hopeful young man was much desired, but left to his owne liking to go, or stay when he came home, but he stayed, and married here.	M ^r Carver and his wife, dyed the first year, he in y ^e spring, she in y ^e sommer; also his man Roger, and y ^e little boy Gasper, dyed before either of them of y ^e common infection. Desire minter, returned to her friends & provided not very well, and dyed in England. His servant boy Latham after more than 20. years stay in the Country went into England; and from thence to the Bahamy Islands in y ^e west Indies; and there with some others was starved for want of food. His maid servant married & dyed a year or two after here in this place. His servant John Howland married the daughter of John Tillis, Elizabeth, and they are both now living; and have 10. children now all living; and their eldest daughter hath 4. children.

15.

And ther 2. daughter, one, all living
and other of their children mar-
agable. so 15. are come of them.

4.

m Brewster lived to very old
age; about 80^{years}, he was when he
dyed, having lived some 23. or
24. years here in y^e countrie. &
though his wife dyed long before,
yet sho dyd aged. His sone was
tho dyed a yonge man unmarried;
his sone Loue, till this year 1650.
and dyed & left 4. children, now
living. His daughters which came
ouer after him, are dead but have
left sundry children alive; his
eldest sone is still living, and
hath 9. or 10. children, one mari-
ed. who hath a child, or 2.

2.

Richard more, his brother dyed the
first winter; but he is married, and
hath 4. or 5. children, all living.

4.

m Ed: Winslow, his wife dyed the
first winter; and he married with
the widow of m White, and hath 2.
children living by her marigable,
beside sundry that are dead.

2.

one of his servants dyed, as also the
little girls sone after the ships a-
rival. But his man Georg Somle
is still living, and hath 8. childre

8.

William Bradford, his wife dyed
soone after their arrival; and he
married againe; and hath 4. chil-
dren. 3. wherof are married.

4.

who dyed 9. of may. 1656.

8.

m Allerton his wife dyed with the
first, and his servant John Hooker
his sone Bartle is married in England
but I know not how many children
he hath. His daughter remember is
married at Salem, & hath 3. or 4.
children living. And his daughter
mary is married here, & hath 4.
children. Him selfe married againe
with y^e daughter of m Brewster, &
hath one sone living by here but
she is long since ~~dey~~ dead. And
he is married againe, and hath left
this place long agoe. so I account
his increase to be 8. beside his
sons in England.

2.

m fuller, his servant dyed at sea; and
after his wife came over, he had two
children by her; which are living
and growne up to yers. but he dyed
some 15. years agoe.

2.

John Crakston dyed in the first mor-
tality; and about some 5. or 6. years
after his sone dyed, having lost him
selfe in y^e wodes, his ^{foot} became frozen,
which put him into a feavor, of which
he dyed.

4.

Captain Standish his wife dyed in
tho first sicknes; and he married
again, and hath 4. sones live-
ing, and some are dead.
+ who dyed 3. of octob. 1655.

15.

m Martin, he and all his, dyed
in the first infection; not long
after the arrival.

7.

m Molines, and his wife, his
sone, & his servant dyed the first
winter. Only his daughter priscilla
survived, and married with John
Alden, who are both living, and
have 11. children. And their eldest
daughter is married & hath five
children. See N. E. Memorial
p. 22.

5.

m White, and his 2. servants dyed
soone after their landing. His wife mari-
ed with m Winslow (as is before noted)
His 2. sons are married, and resolved
hath 5. children; perigrine tom,
all living. so their increase are 7.

4.

m Hopkins, and his wife are now
both dead; but they lived above
20. years in this place, and had one
sone, and 4. daughters borne here.
Ther sone became a seaman, & dyed
at Barbadoes, one daughter dyed
here. and 2. are married, one of
them hath 2. children, & one is yet
to mary. so their increase, which
still survive, are 5. But his
sone Giles is married, and hath 4.
children.

12	his daughter constanta, is also married, and hath 12 Children all of them living, and one of them married.	6	Thomas Rogers dyed in the first sickness, but his sone Joseph is still living, and is married, and hath 6 Children. The rest of Thomas Rogers came over, & are married, & have many Children.
4	Mr Richard Warren lived some 4 or 5 years, and had his wife come over to him, by whom he had 2 Sons before dyed; and one of them is married, and hath 2 Children so his Increase is 4. But he had 5 daughters more came over with his wife, who are all married, & living & have many Children.	10	Thomas Tinker, and his wife, and sone, all dyed in the first sickness.
			And so did John Rigdale, and his wife.
			James Chilton, and his wife also dyed in the first infection. but their daughter mary is still living and hath 9 Children; and one daughter is married, & hath a Child, so their Increase is 10.
		4	Edward fuller, and his wife dyed soon after they came ashore; but their sone samuel is living, & married, and hath 4 Children or more.
8	John Billinton after he had bene here 10 yers, was executed, for killing a man; and his eldest sone dyed before him; but his 2 sone is alive and married, & hath 8 Children.		John Turner, and his 2 sones all dyed in the first sickness. But he hath a daughter still living at Salem, well married, and approved of.
7	Edward Tillie, and his wife both dyed soon after their arrival, and the gille Humility their cousin, was sent for into into England, and dyed ther. But the youth Henry samson, is still living, and is married, & hath 7 Children.	4	Francis Eaton, his first wife dyed in the general sickness, and he married againe & his 2 wife dyed, & he married the 3. and had by her 3 Children. one of them is married, & hath a Child, the other are living but one of them is an idle. He dyed about 16 years agoe.
		1	his sone samuel, who came over a sucking Child is also married, & hath a Child.
	John Tillie, and his wife both dyed, att a little after they came ashore; and their daughter Elizabeth married with John Howland and hath issue as is before noted.		Moses fletcher Thomas Williams Vigerie preist John Goodman Edmond mangeson Richard Britterige Richard Clarke
8	Francis Cooke is still living, a very olde man, and hath seene his Childrens, Children, hane Children; after his wife came over, (with othor of his Children) he hath 3. still living by her, all married, and hane 5 Children so their encrease is 8. And his sone John is which came over with him, is married, and hath 4 Children living.		All these dyed sone after their arrival, in the general sickness that beset. But Vigerie preist had his wife & Children sent hither afterwards, she being Mr Allertons sister. But the rest left no posteritie here.
4			Richard gordinar, became a seaman, and dyed in England, or at sea.
			Gilbert Winslow after diverse years aboard here, returned into England and dyed ther.
		6	Peter Browne married twice; by his first wife he had 2 Children, who are living & both of them married, and the one of them hath 2 Children by his second wife, he had 2 more; he dyed about 16 years since.

Thomas English; and John Alderton,
dyed in the general siknes.

John Alden married with priscila,
m^{rs} Wollines his daughter, and ^{had} five
by her ^{as} is before related.

Edward Doty, & Edward Litter
the servants of m^{rs} Hopkins. Litter
After he was at Liberty went to Vir-
ginia, & ther dyed. But Edward by
a second wife hath .7. Children
and both he and they are living

of these .100. persons which came
first over, in this first ship together?
the greater halfe dyed in the general
mortality; and most of them in .2.
or three monthes time. And for
those which survied though some
were ancient & past procreation; &
others left y^e place and contrie;
yet those few remaining are ^{stange}
up above .160. persons; in this .30.
years. And are now living in this
presente year .1690. besids many
of their Children which are dead,
and come not within this account.

And of the old Stock (of one, &
other) ther are yet living this pre-
sent year .1690. nere .30. persons.
Let the Lord have y^e praise; who is
the High preserver of men.

Twelve persons living of
the old Stock this pre-
sent Year 1679.

Two persons living that came
over in the first Ship 1620
this present year .1690.
Resolved White and Mary
Cushman, the Daughter of
m^{rs} Alderton, the Son of
frances Cooke that came in the
first Ship is still living
this present year 1694
& Mary Cushman is still
living this present year
1698

[illegible]

The following is an alphabetical listing (sorted with household members/servants grouped together) of the passengers and crew that were intended to stay in Plymouth:

<u>Name</u>	<u>Apprx Age</u>	<u>Pilgrim Separatist; Non-Separatist; Crew</u>	<u>Occupation</u>
John Alden	21	Pilgrim Separatist Seaman (Contracted)	Cooper
Isaac Allerton	34	Pilgrim Separatist	Tailor, Merchant
Mary Allerton	30	Pilgrim Separatist Wife	
Remember Allerton	5	Pilgrim Separatist Daughter	
Mary Allerton	3	Pilgrim Separatist Daughter	
John Hooke	13	Pilgrim Separatist Apprentice to Isaac Allerton	Apprentice Tailor
John Allerton	29	Pilgrim Separatist Seaman (Contracted)	Seaman
Bartholomew Allerton	7	Pilgrim Separatist Seaman Son	
John Billington	38	Non-Separatist Passenger	
Elinor Billington	33	Non-Separatist Wife	
John Billington	16	Non-Separatist Son	
Francis Billington	14	Non-Separatist Son	
William Bradford	30	Pilgrim Separatist	Fustian Weaver
Dorothy Bradford	21	Pilgrim Separatist Wife	
William Brewster	54	Pilgrim Separatist	Postmaster, Teacher
Mary Brewster	40	Pilgrim Separatist Wife	
Love Brewster	9	Pilgrim Separatist Son	
Wrestling Brewster	6	Pilgrim Separatist Son	
Mary More	4	Pilgrim Separatist Servant to William Brewster	Indentured Servant
Richard More	6	Pilgrim Separatist Servant to William Brewster	Indentured Servant
Richard Britteridge	39	Non-Separatist Passenger	
Peter Browne	20	Non-Separatist Passenger	Weaver
John Carver	35	Pilgrim Separatist	Deacon
Katherine Carver	30	Pilgrim Separatist Wife	
John Howland	21	Pilgrim Separatist Servant to John Carver	Indentured Servant
William Latham	11	Pilgrim Separatist Servant to John Carver	Indentured Servant
Desire Minter	15	Pilgrim Separatist Servant to John Carver	Indentured Servant
Jasper More	7	Pilgrim Separatist Servant to John Carver	Indentured Servant
Roger Wilder	<21	Pilgrim Separatist Servant to John Carver	Indentured Servant
Dorothy _____	18	Pilgrim Separatist Servant to John Carver	Indentured Servant
James Chilton	64	Pilgrim Separatist	Tailor
Susanna Chilton	58	Pilgrim Separatist Wife	
Mary Chilton	13	Pilgrim Separatist Daughter	
Richard Clarke		Non-Separatist Passenger	
Francis Cooke	37	Pilgrim Separatist	Wool Comber
John Cooke	13	Pilgrim Separatist Son	
John Crackstone	45	Pilgrim Separatist	
John Crackstone	20	Pilgrim Separatist Son	

<u>Name</u>	<u>Apprx Age</u>	<u>Pilgrim Separatist; Non-Separatist; Crew</u>	<u>Occupation</u>
Francis Eaton		Non-Separatist Passenger	House Carpenter
Sarah Eaton	21	Non-Separatist Wife	
Samuel Eaton	1	Non-Separatist Son	
_____ Ely		Pilgrim Separatist Seaman (Contracted)	
Thomas English		Pilgrim Separatist Seaman (Contracted)	
Moses Fletcher	55	Pilgrim Separatist	Blacksmith
Edward Fuller	45	Pilgrim Separatist	
_____ Fuller	35	Pilgrim Separatist Wife	
Samuel Fuller	12	Pilgrim Separatist Son	
Samuel Fuller	40	Pilgrim Separatist Brother of Edward	Say-Weaver/Physician
William Batten	"Youth"	Pilgrim Separatist Servant to Samuel Fuller	Indentured Servant
Richard Gardiner	38	Pilgrim Separatist Seaman	Seaman
John Goodman		Pilgrim Separatist	Linen Weaver
Stephen Hopkins	38	Non-Separatist Passenger	Tanner
Elizabeth Hopkins	25	Non-Separatist Wife	
Constance Hopkins	14	Non-Separatist Daughter	
Giles Hopkins	12	Non-Separatist Son	
Damaris Hopkins	2	Non-Separatist Daughter	
Oceanus Hopkins	Born at Sea	Non-Separatist Son	
Edward Doty	21	Non-Separatist Servant to Stephen Hopkins	Indentured Servant
Edward Leister	> 21	Non-Separatist Servant to Stephen Hopkins	Indentured Servant
Edmund Margesson		Non-Separatist Passenger	
Christopher Martin	38	Non-Separatist Passenger	Merchant
Mary Marting	35	Non-Separatist Wife	
John Langmore	< 21	Non-Separatist Servant to Christopher Martin	Indentured Servant
William Mullins	52	Non-Separatist Passenger	Boot and Shoe Maker
Alice Mullins	48	Non-Separatist Wife	
Joseph Mullins	14	Non-Separatist Son	
Pricilla Mullins	18	Non-Separatist Daughter	
Robert Carter	Teenager	Non-Separatist Servant to William Mullins	Indentured Servant
Degory Priest	41	Pilgrim Separatist	Hatmaker
Solomon Prowe		Non-Separatist Passenger	
John Rigsdale		Non-Separatist Passenger	
Alice Rigsdale		Non-Separatist Wife	
Thomas Rogers	48	Pilgrim Separatist	
Joseph Rogers	17	Pilgrim Separatist Son	
Myles Standish	23	Pilgrim Separatist Soldier	Soldier
Rose Standish	27	Pilgrim Separatist Soldier Wife	
Edward Tilley	32	Pilgrim Separatist	
Agnes Tilley	35	Pilgrim Separatist Wife of Edward	
Humility Cooper	1	Pilgrim Separatist Niece of Agnes Tilley	
Henry Sampson	16	Pilgrim Separatist Nephew of Agnes Tilley	

<u>Name</u>	<u>Apprx Age</u>	<u>Pilgrim Separatist; Non-Separatist; Crew</u>	<u>Occupation</u>
John Tilley	49	Pilgrim Separatist (Brother of Edward)	
Joan Tilley	53	Pilgrim Separatist Wife of John	
Elizabeth Tilley	13	Pilgrim Separatist Daughter of John	
Thomas Tinker		Pilgrim Separatist	
_____ Tinker		Pilgrim Separatist Wife	
_____ Tinker		Pilgrim Separatist Son	
William Trevore		Pilgrim Separatist Seaman (Contracted)	Seaman
John Turner	30	Pilgrim Separatist	
_____ Turner	5	Pilgrim Separatist Son	
_____ Turner	3	Pilgrim Separatist Son	
Richard Warren		Non-Separatist Passenger	Merchant
William White	30	Pilgrim Separatist	
Susanna White	25	Pilgrim Separatist Wife	
Resolved White	5	Pilgrim Separatist Son	
Peregrine White	Born at anchor	Pilgrim Separatist Son	
William Holbeck		Pilgrim Separatist Servant to William White	Indentured Servant
Edward Thompson	< 21	Pilgrim Separatist Servant to William White	Indentured Servant
Thomas Williams		Pilgrim Separatist	
Edward Winslow	25	Pilgrim Separatist	Printer
Elizabeth Winslow	23	Pilgrim Separatist Wife	
Ellen More	8	Pilgrim Separatist Servant to Edward Winslow	Indentured Servant
George Soule	21 - 25	Pilgrim Separatist Servant to Edward Winslow	Indentured Servant
Elias Story	< 21	Pilgrim Separatist Cared by Edward Winslow	Indentured Servant
Gilbert Winslow	20	Pilgrim Separatist Brother of Edward	

Note: There are 104 names listed here. There were 102 initial passengers, one was born at sea on the way (Oceanus Hopkins) and another was born while they were at anchor (Peregrine White). One of the passengers (William Batten) died on the way to America. While at anchor off Cape Cod between November 9 and December 8, 1620, four more died, Edward Thompson; Jasper More; Dorothy Bradford and James Chilton. In addition to the above, there were other crew members of the Mayflower (some estimate that there were 30-50 total crew members). Other known crew members include:

Christopher Jones	Master (Captain)	John Parker	Seaman
John Clarke	Ship's Pilot	William Trevore	Seaman
Robert Coppin	Master's Mate	Ely _____	Seaman
Thomas English	Seaman	Andrew Williamson	Seaman
Giles Heale	Ship's Surgeon		

Information here is from Bradford; World Heritage Encyclopedia; Caleb Johnson's MayflowerHistory-com.

In an effort to provide a brief, informal background summary of various people, places and events related to the Mayflower, I made this informal compilation from a variety of sources. This is not intended to be a technical reference document, nor an exhaustive review of the subject. Rather, it is an assemblage of information and images from various sources on basic background information. For ease in informal reading, in many cases, specific quotations and citations and attributions are often not included – however, sources are noted in the summary. The images and text are from various sources and are presented for personal, noncommercial and/or educational purposes. Thanks, Peter T. Young