



SPACESTATION LIVE

1
00:00:09,669 --> 00:00:07,030
as we continue to look at journeying

2
00:00:11,669 --> 00:00:09,679
farther into deep space one of the more

3
00:00:13,669 --> 00:00:11,679
important things that's going to have to

4
00:00:15,829 --> 00:00:13,679
be a reality for crews is to be able to

5
00:00:17,910 --> 00:00:15,839
grow their own foods well the good news

6
00:00:19,590 --> 00:00:17,920
is that's already actively happening on

7
00:00:21,830 --> 00:00:19,600
board the space station

8
00:00:23,429 --> 00:00:21,840
lori meigs out at the payload operations

9
00:00:24,790 --> 00:00:23,439
integration center at the marshall space

10
00:00:26,550 --> 00:00:24,800
flight center

11
00:00:28,150 --> 00:00:26,560
reporting that by this time next week

12
00:00:30,390 --> 00:00:28,160
station crew members will be eating

13
00:00:32,870 --> 00:00:30,400

lettuce that they grew on the space

14

00:00:34,709 --> 00:00:32,880

station in a unit appropriately called

15

00:00:36,950 --> 00:00:34,719

veggie this is going to be the first

16

00:00:39,830 --> 00:00:36,960

food ever grown harvested and then eaten

17

00:00:42,229 --> 00:00:39,840

in space by our u.s crews she spoke with

18

00:00:44,869 --> 00:00:42,239

paul zamparelli with the company that

19

00:00:46,150 --> 00:00:44,879

developed veggie to find out more

20

00:00:47,830 --> 00:00:46,160

we grew

21

00:00:49,029 --> 00:00:47,840

its first

22

00:00:51,910 --> 00:00:49,039

crops

23

00:00:54,869 --> 00:00:51,920

as you can say red lettuce

24

00:00:56,790 --> 00:00:54,879

that was harvested and brought down on

25

00:00:59,470 --> 00:00:56,800

spacex

26

00:01:01,830 --> 00:00:59,480

to get it analyzed um for

27

00:01:04,149 --> 00:01:01,840

microbials and and any kind of

28

00:01:07,030 --> 00:01:04,159

impurities that may have

29

00:01:07,990 --> 00:01:07,040

um attached itself from the main cabin

30

00:01:09,429 --> 00:01:08,000

let's

31

00:01:11,429 --> 00:01:09,439

they could need it

32

00:01:14,070 --> 00:01:11,439

right well what's unique about this is

33

00:01:15,270 --> 00:01:14,080

that it's an open air and it's the first

34

00:01:17,670 --> 00:01:15,280

open air

35

00:01:19,670 --> 00:01:17,680

vegetable garden up there to grow

36

00:01:22,310 --> 00:01:19,680

food and as you can imagine there's

37

00:01:24,830 --> 00:01:22,320

things floating in the air and

38

00:01:29,350 --> 00:01:24,840

it's unknown

39

00:01:31,510 --> 00:01:29,360

exactly if it was edible but

40

00:01:34,710 --> 00:01:31,520

that that is good news the good news is

41

00:01:37,590 --> 00:01:34,720

it is edible and um so we are

42

00:01:39,910 --> 00:01:37,600

and have a thumbs up by by nasa to be

43

00:01:41,510 --> 00:01:39,920

able to grow and let

44

00:01:43,830 --> 00:01:41,520

the astronauts

45

00:01:46,550 --> 00:01:43,840

use it as a dietary filler

46

00:01:49,270 --> 00:01:46,560

for future things hugely important to

47

00:01:50,710 --> 00:01:49,280

the future correct yes because we've got

48

00:01:52,870 --> 00:01:50,720

to be able to grow our own food to go

49

00:01:55,590 --> 00:01:52,880

farther correct yeah i mean we all

50

00:01:58,389 --> 00:01:55,600

started from plants so this is how we

51
00:02:01,429 --> 00:01:58,399
intend moan mars in the future a

52
00:02:03,670 --> 00:02:01,439
long-duration space to survive

53
00:02:05,910 --> 00:02:03,680
what have you heard feedback from

54
00:02:10,150 --> 00:02:05,920
astronauts who got to actually grow the

55
00:02:11,990 --> 00:02:10,160
stuff oh they loved it and in fact

56
00:02:15,270 --> 00:02:12,000
when they came back here and they did

57
00:02:17,990 --> 00:02:15,280
their speeches it was a lot on veggie um

58
00:02:19,830 --> 00:02:18,000
veggie is something that is very you

59
00:02:21,910 --> 00:02:19,840
know wholesome and good and

60
00:02:23,589 --> 00:02:21,920
and fun it was a lot of fun for them to

61
00:02:25,510 --> 00:02:23,599
tend to the garden

62
00:02:28,309 --> 00:02:25,520
and tend to the plants it turned out

63
00:02:29,510 --> 00:02:28,319

very well on the first flight we did put

64

00:02:34,869 --> 00:02:29,520

extra

65

00:02:36,710 --> 00:02:34,879

red leaf lettuce and flowers so

66

00:02:39,270 --> 00:02:36,720

right now with the crew time they're

67

00:02:41,270 --> 00:02:39,280

going to start engaging in that growing

68

00:02:44,229 --> 00:02:41,280

the lettuce again

69

00:02:45,270 --> 00:02:44,239

and flowers and we hope to get some very

70

00:02:46,949 --> 00:02:45,280

good

71

00:02:48,229 --> 00:02:46,959

one of the things with the flowers i may

72

00:02:50,550 --> 00:02:48,239

point out

73

00:02:53,990 --> 00:02:50,560

is that they're going to

74

00:02:56,869 --> 00:02:54,000

see how the flowers pollinate uh within

75

00:02:59,670 --> 00:02:56,879

a zero gravity

76

00:03:01,990 --> 00:02:59,680

state and and and study that which is

77

00:03:04,470 --> 00:03:02,000

very important as well

78

00:03:07,430 --> 00:03:04,480

because of the pollination for fruit and

79

00:03:09,030 --> 00:03:07,440

future things that really need to happen

80

00:03:10,470 --> 00:03:09,040

will they get to eat this lettuce since

81

00:03:13,030 --> 00:03:10,480

you've already gotten it approved or

82

00:03:16,229 --> 00:03:13,040

will it have to come back so i hope so

83

00:03:17,430 --> 00:03:16,239

so i there's no reason not to

84

00:03:19,430 --> 00:03:17,440

now what you learned up there will that

85

00:03:22,149 --> 00:03:19,440

help me with my garden it will and it

86

00:03:24,390 --> 00:03:22,159

already has and and the the goodness

87

00:03:27,110 --> 00:03:24,400

that all of this is coming from i'm

88

00:03:28,390 --> 00:03:27,120

working with countries like dubai who

89

00:03:30,229 --> 00:03:28,400

have

90

00:03:33,110 --> 00:03:30,239

the problem of

91

00:03:35,270 --> 00:03:33,120

um importing almost 95 of all their

92

00:03:37,670 --> 00:03:35,280

fruits and vegetables because of the

93

00:03:39,910 --> 00:03:37,680

horrendous heat and environment for

94

00:03:41,430 --> 00:03:39,920

growing things there so what we're doing

95

00:03:44,390 --> 00:03:41,440

is we're working with them taking these

96

00:03:47,350 --> 00:03:44,400

same type units like veggie and burying

97

00:03:49,589 --> 00:03:47,360

them into the sand big huge warehouses

98

00:03:52,070 --> 00:03:49,599

that they can then use the abundance of

99

00:03:54,550 --> 00:03:52,080

sun using solar they have abundance of

100

00:03:56,630 --> 00:03:54,560

water but it's controlled environment

